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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Release Notification

Responsible Party

| | | OGRID | GRID | | | |
|--|-------------|---|---|--------------------------|--|--|
| | | Contact Te | ntact Telephone | | | |
| Contact email | | Incident # | # (assigned by OCD) | | | |
| Contact maili | ing address | | | | | |
| | | | T | 4D 1 C | | |
| | | | Location | of Release So | Source | |
| Latitude | | | | Longitude _ | | |
| | | | (NAD 83 in dec | cimal degrees to 5 decin | | |
| Site Name | | | | Site Type | | |
| Date Release | Discovered | | | API# (if app | oplicable) | |
| Unit Letter | Section | Township | Range | Coun | inty | |
| | 20011011 | 1 e wilding | 11 | | | |
| Crude Oil | Material | Federal Tri | Nature and that apply and attach d (bbls) | l Volume of I | Release ic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) | |
| Is the concentration of total dissolved solids (TDS | | | ☐ Yes ☐ No | | | |
| in the produced water >10,000 mg/l? Condensate Volume Released (bbls) | | /1. | Volume Recovered (bbls) | | | |
| ☐ Natural Gas Volume Released (Mcf) | | Volume Recovered (Mcf) | | | | |
| Other (describe) Volume/Weight Released (provide units) | | Volume/Weight Recovered (provide units) | | | | |
| Cause of Rele | ease | | | | | |

| 73 | 0.4 | | · ^ / |
|-------|-----|----------------------|-------|
| Page | U I | n t | un |
| 1 426 | /1 | \boldsymbol{v}_{I} | 70 |
| | | | |

| Incident ID | NRM2014240786 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No If YES, was immediate no | If YES, for what reason(s) does the responsible party consider this a major release? otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |
|--|--|--|
| | Initial Response | |
| The responsible p | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury | |
| ☐ The source of the release has been stopped. ☐ The impacted area has been secured to protect human health and the environment. ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☐ All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: | | |
| has begun, please attach a | AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
| Printed Name: | Title: | |
| Signature: Kendra | <i>DeHoyos</i> Date: | |
| email: | Telephone: | |
| OCD Only | | |
| Received by: Ramona | a Marcus Date: 5/21/2020 | |

| Spill Volume(Bbls) Calculator | | | |
|-------------------------------|--------------------------------|---------------------------|--|
| Ir | Inputs in blue, Outputs in red | | |
| Co | ntaminated S | Soil measurement | |
| Length(Ft) | Width(Ft) | Depth(Ft) | |
| <u>0</u> | 0.000 | <u>0.083</u> | |
| Cubic Feet of S | Soil Impacted | <u>87.150</u> | |
| Barrels of So | il Impacted | <u>15.53</u> | |
| Soil T | 'уре | Clay/Sand | |
| Barrels of Oi | l Assuming | 2.33 | |
| 100% Sat | uration | 2.33 | |
| Saturation Fluid prese | | esent with shovel/backhoe | |
| Estimated Barrels of Oil | | 2.33 | |
| Released | | 2.33 | |
| Free Standing | | ing Fluid Only | |
| Length(Ft) | Width(Ft) | Depth(Ft) | |
| | | | |
| <u>0</u> | <u>0.000</u> | <u>0.083</u> | |
| Standing fluid | | <u>8.857</u> | |
| Total fluids spilled | | <u>11.187</u> | |

Instructions

- 1.Input spill area measurements in feet, if less than one foot use converter below.
- Select a soil type from the drop down menu.
 Select a saturation level from the drop down menu.

(For data gathering instructions see appendix tab)

| Inches to Feet Converter | | | |
|--------------------------|--|-------|--|
| Inches Feet | | | |
| Length | | 0.000 | |
| Width | | 0.000 | |
| Height | | 0.000 | |

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 District III
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State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

| Incident ID | NRM2014240786 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

| This information must be provided to the appropriate district office no tales than 20 days after the release discovery date. | | |
|--|----------------------|--|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>180 (</u> ft bgs) | |
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ 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)? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ⊠ No | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | | |

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

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| District RP | |
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| Application ID | |

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and

| regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
|---|-------------------------|--|
| Printed Name: Wesley Mathews | Title: EHS Professional | |
| Signature:_ Wesley Mathews | Date <u>:</u> | |
| email: Wesley.Mathews@dvn.com | Telephone: 575-578-6195 | |
| | | |
| OCD Only Received by: Ramona Marcus | Date:5/21/2020 | |

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Remediation Plan

| Remediation Plan Checklist: Each of the following items must be included in the plan. |
|--|
| Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) |
| Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. |
| Extents of contamination must be fully delineated. |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater. |
| |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: Wesley Mathews Title: EHS Professional |
| Signature: Wesley Mathews Date: |
| email: Wesley.Mathews@dvn.com Telephone: 575-578-6195 |
| |
| OCD Only |
| Received by: Ramona Marcus Date: 5/21/2020 |
| Approved |
| Signature: Date: |

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| 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 in | must he included in the clasure report |
|--|---|
| | • |
| A scaled site and sampling diagram as described in 19.15.29.11 NM | IAC |
| Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection) | e liner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC Distr | rict office must be notified 2 days prior to final sampling) |
| ☐ Description of remediation activities | |
| | |
| Signature: Date | ase notifications and perform corrective actions for releases which 41 report by the OCD does not relieve the operator of liability the contamination that pose a threat to groundwater, surface water, 41 report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially not that existed prior to the release or their final land use in |
| OCD Only | |
| Received by: Ramona Marcus | Date: 5/21/2020 |
| Closure approval by the OCD does not relieve the responsible party of liab remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or regr | human health, or the environment nor does not relieve the responsible |
| Closure Approved by: | Date: |
| Printed Name: | Title: |

NRM2014240786



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

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

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 |
|----------------------|--|--------------|
| □Yes ⊠No | Within 300 feet of any continuously flowing war any other significant watercourse | tercourse or |
| ∐Yes ⊠No | Within 200 feet of any lakebed, sinkhole or a p | laya lake |
| □Yes ⊠No | Within 300 feet from an occupied permanent reschool, hospital, institution or church | esidence, |
| ∐Yes ⊠No | Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes | |
| ∐Yes ⊠No | Within 1000 feet of any freshwater well or sprir | ng |
| □Yes ⊠No | Within incorporated municipal boundaries or w municipal freshwater well field covered under a ordinance adopted pursuant to Section 3-2703 | a municipal |
| ∐Yes ⊠No | Within 300 feet of a wetland | |
| ∐Yes ⊠No | Within the area overlying a subsurface mine | |
| ∐Yes ⊠No | Within an unstable area | |
| ∐Yes ⊠No | Within a 100-year floodplain | |

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:

| | Tab Closure Criteria for Soils | | |
|---|-----------------------------------|--------------------------|--------------|
| 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 CI B | 20,000 mg/kg |
| | TPH | EPA SW-846 Method 8015M | 2,500 mg/kg |
| | (GRO+DRO+MRO) | | |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | BTEX | EPA SW-846 Method 8021B | 50 mg/kg |
| | | or 8260B | |
| | Benzene | EPA SW-846 Method 8021B | 10 mg/kg |
| | | or 8260B | _ |

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 | Depth | BTEX | Benzene | GRO | DRO | MRO | Total TPH | Cl |
|-----------|----------------|--------|----------|----------|------------|------------|----------|------------|--------|
| Sample ID | Date | (BGS) | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| NMOCD | Table 1 Closus | | | | | combined = | 1116/116 | | 20,000 |
| | 19.15.29 NMAC | | 50 mg/kg | 10 mg/kg | 1000 mg/kg | | | 2500 mg/kg | mg/kg |
| 6.4 | 2/40/2020 | 0-1' | ND | ND | ND | ND | ND | ND | 490 |
| S-1 | 2/19/2020 | 1-2' R | ND | ND | ND | ND | ND | ND | ND |
| | | 0-1' | ND | ND | ND | 350 | 240 | 590 | 2000 |
| S | -2 | 2' | ND | ND | ND | ND | ND | ND | 840 |
| | | 3' | ND | ND | ND | ND | ND | ND | 980 |
| | | 0-1' | ND | ND | ND | 17 | ND | 17 | 140 |
| S | -3 | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' R | ND | ND | ND | ND | ND | ND | ND |
| | | 0-1' | ND | ND | ND | 26 | ND | 26 | 2500 |
| | -4 | 2' | ND | ND | ND | ND | ND | ND | 72 |
| 3 | -4 | 3' | ND | ND | ND | ND | ND | ND | 120 |
| | | 4' | ND | ND | ND | ND | ND | ND | 150 |
| | | 0-1' | ND | ND | ND | ND | ND | ND | ND |
| | -5 | 2' | ND | ND | ND | ND | ND | ND | 65 |
| 3 | -5 | 3' | ND | ND | ND | ND | ND | ND | 110 |
| | | 4 | ND | ND | ND | ND | ND | ND | 120 |
| | | 0-1' | ND | ND | ND | 3500 | 13000 | 16500 | ND |
| S | -6 | 2' | ND | ND | ND | ND | ND | ND | 63 |
| | | 3' R | ND | ND | ND | ND | ND | ND | 80 |
| | | 0-1' | ND | ND | ND | 17 | ND | 17 | 74 |
| c | -7 | 2' | ND | ND | ND | ND | ND | ND | ND |
| 3 | - / | 3' | ND | ND | ND | ND | ND | ND | ND |
| | 4' | ND | ND | ND | ND | ND | ND | 61 | |
| | | 0-1' | ND | ND | ND | ND | ND | ND | ND |
| , | -8 | 2' | ND | ND | ND | ND | ND | ND | ND |
|] | -0 | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| | | 0-1' | ND | ND | ND | 290 | 210 | 500 | 120 |
| S | S-9 | | ND | ND | ND | ND | ND | ND | 530 |
| | | 3' R | ND | ND | ND | ND | ND | ND | 950 |
| | | 0-1 | ND | ND | ND | 37 | 56 | 93 | 2600 |
| S- | 10 | 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 | |
| | .11 | 2' | ND | ND | ND | ND | ND | ND | ND |
| | 11 | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| | | 0-1' | ND | ND | ND | 110 | 87 | 197 | 180 |
| | 12 | 2' | ND | ND | ND | ND | ND | ND | ND |
|] | 14 | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| В | iG | 0' | ND | ND | ND | ND | ND | ND | ND |

ND-Analyte Not Detected

3-20-20 Confirmation Soil Sample Laboratory Results

| Cample ID | Sample | Depth | BTEX | Benzene | GRO | DRO | MRO | Total TPH |
|---------------|----------------|---------------|----------|----------|-----------------|------------|-------|-------------|
| Sample ID | Date | (BGS) | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| NMOCD 1 | Table 1 Closui | e Criteria | 50 mg/kg | 10 // | DRO + GRO | combined = | | 2500 mg/log |
| 19.15.29 NMAC | | 19.15.29 NMAC | | 10 mg/kg | 10 mg/kg 1000 r | | | 2500 mg/kg |
| S-6 A | | | | | | | | |

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 1.0foot BGSÈÆaboratory analytical results from confirmation sidewall composite soil samples indicated that TPH concentrations were below NMOCD Closure Criteria.
- The \\\\{ \approx \frac{1}{2} \bar{4} \times \text{ Astained area on location was surface scraped and back dragged \hat{Autilizing a backhoe.}
- All ^¢&æçæe^å 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

Departing proposed by Departing Anglesia.

Departing proposed by Departing Anglesia.

Departing proposed by Departing Department Departm

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



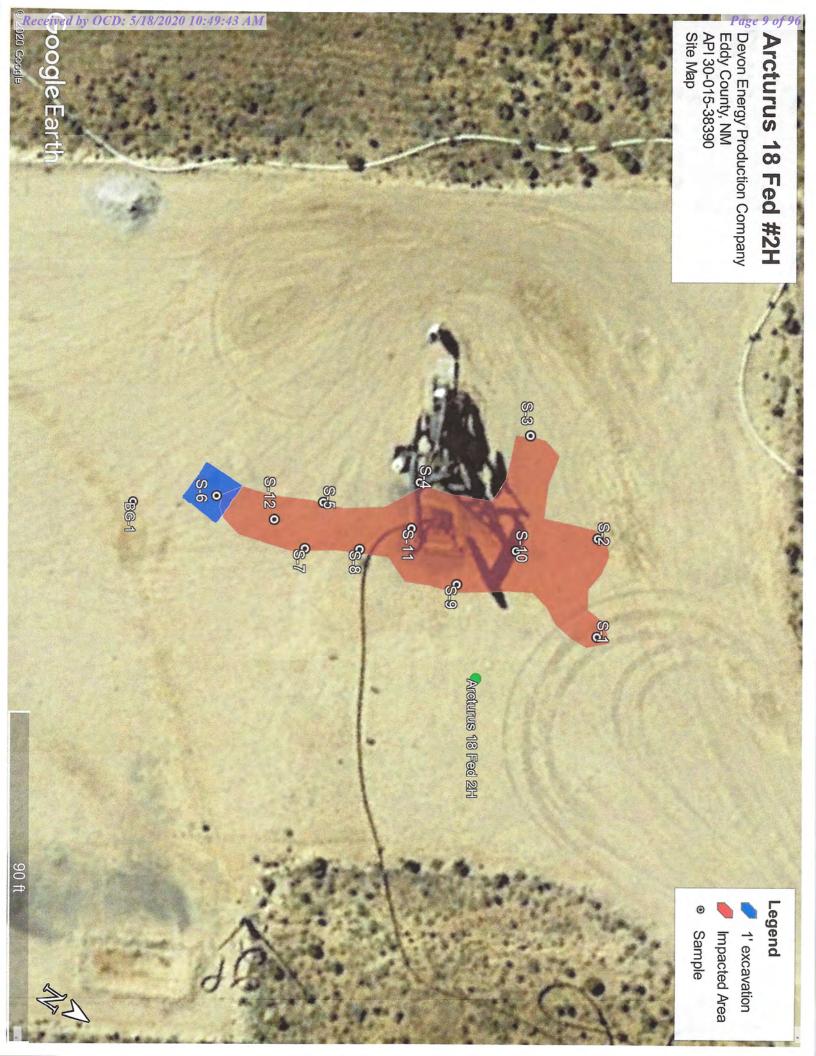
APPENDIX I

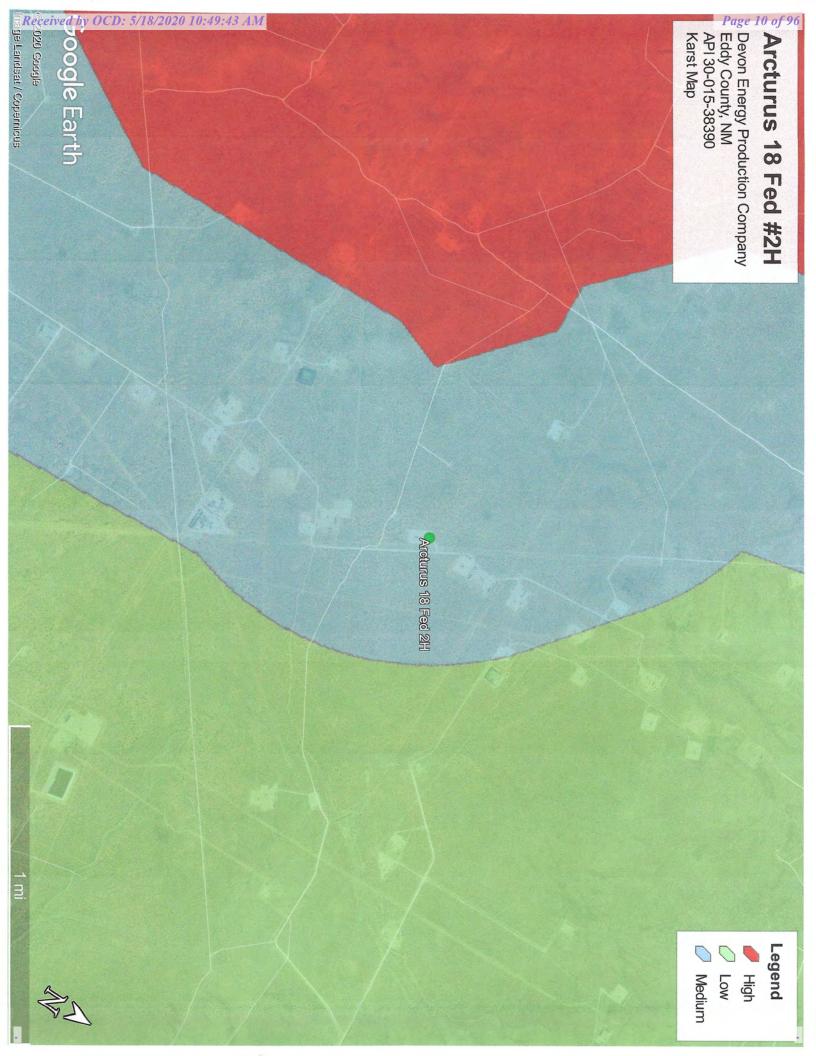
SITE MAP

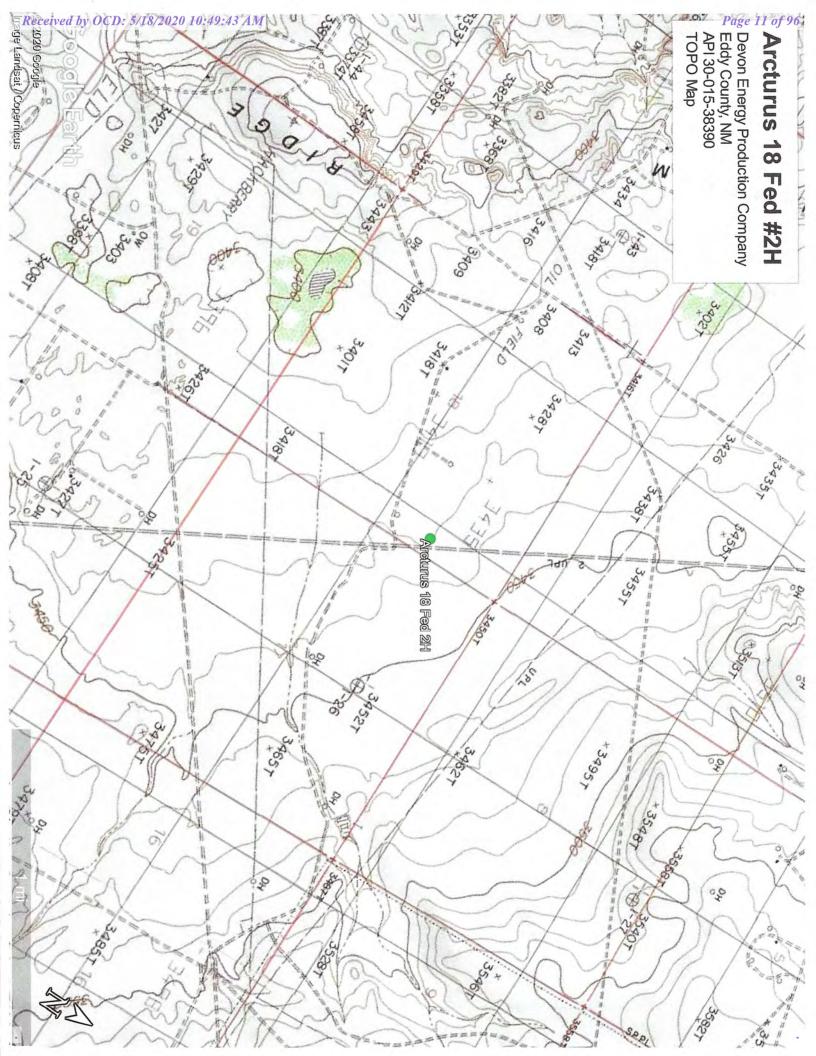
KARST MAP

TOPO MAP

LOCATION MAP











<u>APPENDIX II</u>

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.)

POD Number

CP 00873 POD1

(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

1 1 19 19S 31E

largest) (NAD83 UTM in meters)

(In feet)

POD

Sub-

Code basin County 6416 4 Sec Tws Rng

Y

X

601772 3613147

Water DistanceDepthWellDepthWaterColumn

Average Depth to Water:

180 feet

Minimum Depth:

180 feet

Maximum Depth:

180 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 603042.587

Northing (Y): 3614477.364

QQQ

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

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

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





Legend

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

SPECIAL FLOOD HAZARD AREAS

Regulatory Floodway

With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Zone A, V, A99



of 1% annual chance flood with average 0.2% Annual Chance Flood Hazard, Area

areas of less than one square mile Zone depth less than one foot or with drainag

Chance Flood Hazard Zone X Future Conditions 1% Annual

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

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone

Effective LOMRs Area of Undetermined Flood Hazard Zona

OTHER AREAS

Channel, Culvert, or Storm Sewer

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL ---

Water Surface Elevation Cross Sections with 1% Annual Chance

0

Base Flood Elevation Line (BFE) Coastal Transect

Eddy/Gounty 350120

AREA:OF MINIMAL FLOOD HAZARD

Limit of Study Jurisdiction Boundary

Hydrographic Feature Coastal Transect Baseline Profile Baseline

Digital Data Available

No Digital Data Available

Unmapped



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

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

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

250 500 1,000 1,500 35015006500 eff.0/47/2010 2,000 Feet USGS The National Map: Orthoimagery. Data refreshed April, 2019. 1:6,000 32°39'32.19"N 103°53'45.38"W MAP PANELS unmapped and unmodernized areas cannot be used for FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, regulatory purposes. legend, scale bar, map creation date, community identifiers, This map image is void if the one or more of the following map accuracy standards **FEATURES** OTHER

Received by OCD: 5/18/2020 10:49:43 AM



APPENDIX III

FINAL C-141

Received by OCD: 5/18/2020 10:49:43 AM
State of New Mexico
Page 3
Oil Conservation Division

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

Incident ID
District RP
Facility ID

180 (ft bgs)

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.

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

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

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Form C-141 State of New Mexico Oil Conservation Division Page 4

| | 0 0 |
|----------------|-----|
| Incident ID | |
| 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. Title: Project Manager Printed Name: Chris Jones Signature: Telephone: 575-748-8768 email: cjones@talonlpe.com **OCD Only** Received by: Date:

Received by OCD: 5/18/2020 10:49:43 AM Form C-141 State of New Mexico Oil Conservation Division Page 6

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

Closure

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

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

| Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection) | kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office |
|---|---|
| ☐ Laboratory analyses of final sampling (Note: ap | propriate ODC District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report an may endanger public health or the environment. The should their operations have failed to adequately involument human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface | rue and complete to the best of my knowledge and understand that pursuant to OCD rules d/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for s and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in cation to the OCD when reclamation and re-vegetation are complete. |
| Printed Name: Chris Jones | Title: Project Manager |
| Signature: | Date: 4.2-2 |
| email: cjones@talonlpe.com | Telephone: 575-748-8768 |
| OCD Only | |
| Received by: | Date: |
| | esponsible party of liability should their operations have failed to adequately investigate groundwater, surface water, human health, or the environment nor does not relieve the al, state, or local laws and/or regulations. |
| Closure Approved by: | Date: |
| | |



<u>APPENDIX IV</u>

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,

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

Project: Arcturus 18 FED 2H

Lab ID: 2002915-001

Client Sample ID: S-1 0-1'

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

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 | 490 | 60 | | mg/Kg | 20 | 2/25/2020 10:06:09 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | |
| Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP | ND | 9.6 | | mg/Kg | 1 | 2/26/2020 10:00:39 AM | 50641 |
| | ND | 48 | | mg/Kg | 1 | 2/26/2020 10:00:39 AM | 50641 |
| | 127 | 55.1-146 | | %Rec | 1 | 2/26/2020 10:00:39 AM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | 25.5 |
| Gasoline Range Organics (GRO) Surr: BFB | ND | 4.9 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| | 83.3 | 66.6-105 | | %Rec | 1 | 2/25/2020 10:39:09 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSR |
| 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 |

Matrix: SOIL

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

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Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

oject: Arcturus 18 FED 2H

Lab ID: 2002915-002

Client Sample ID: S-1 2' R

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

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 | |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: | 10/10/15 |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 2/26/2020 11:10:47 AM | 50641 |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND | 48 | | mg/Kg | 1 | 2/26/2020 11:10:47 AM | 50641 |
| | 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) Surr: BFB | ND | 4.9 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| | 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 |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project:

Arcturus 18 FED 2H

Lab ID: 2002915-003

Client Sample ID: S-2 0-1'

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

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 | 2000 | 60 | | mg/Kg | 20 | 2/25/2020 11:20:14 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE OR | | | - 3 | | Analyst: | BRM | |
| Diesel Range Organics (DRO) | 350 | 9.5 | | mg/Kg | 1 | 2/27/2020 7:08:16 PM | 50641 |
| Motor Oil Range Organics (MRO) Surr: DNOP | 240 | 47 | | mg/Kg | 1 | 2/27/2020 7:08:16 PM | 50641 |
| | 148 | 55.1-146 | S | %Rec | 1 | 2/27/2020 7:08:16 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) Surr: BFB | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| | 79.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 12:11:35 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| 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 |

Matrix: SOIL

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
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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CLIENT: Talon Artesia

Arcturus 18 FED 2H

2002915-004

Project:

Lab ID:

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-2 2'

Collection Date: 2/19/2020 8:20:00 AM

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 OR | GANICS | | | | Analyst: | 1.000 |
| 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 |
| | | | | | | |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Arcturus 18 FED 2H

Lab ID: 2002915-005

Project:

Client Sample ID: S-2 3'

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

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

| Analyses | Result | RL | Qual U | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|--------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: | JMT |
| Chloride | 980 | 60 | r | ng/Kg | 20 | 2/25/2020 11:44:55 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 9.5 | r | ng/Kg | 1 | 2/26/2020 12:21:12 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | ng/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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | n | ng/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 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| Benzene | ND | 0.024 | n | ng/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Toluene | ND | 0.048 | | ng/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | ng/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Xylenes, Total | ND | 0.096 | | ng/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 89.8 | 80-120 | | 6Rec | 1 | 2/26/2020 12:57:40 AM | 50628 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project:

Arcturus 18 FED 2H

Lab ID: 2002915-006

Client Sample ID: S-3 0-1'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: | IMT |
| Chloride | 140 | 60 | | mg/Kg | 20 | 2/25/2020 11:57:15 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | |
| 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 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | |
| 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 |

Matrix: SOIL

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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

t: Arcturus 18 FED 2H

Lab ID: 2002915-007

Client Sample ID: S-3 2'

Collection Date: 2/19/2020 8:40:00 AM

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 ORG | SANICS | | | | Analyst: | |
| 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: | 10000 |
| 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 |

Matrix: SOIL

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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-008

Client Sample ID: S-3 3' R

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

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 | | 00 | Analyst: | JIVI |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | 0.000 | 00 | mg/Kg | 20 | 2/26/2020 12:21:56 AM | 50663 |
| | SANICS | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | |
| Gasoline Range Organics (GRO) | ND | | | | Analyst: | NSB |
| Surr: BFB | ND | 4.8 | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| | 80.7 | 66.6-105 | %Rec | 1 | 2/26/2020 2:06:39 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | | |
| Toluene | ND | 0.048 | mg/Kg | - 30 | 2/26/2020 2:06:39 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Xylenes, Total | ND | 0.046 | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 20.77 | 4 1 7 7 3 | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| | 91.0 | 80-120 | %Rec | 1 | 2/26/2020 2:06:39 AM | 50628 |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-009

Client Sample ID: S-4 0-1'

Collection Date: 2/19/2020 8:55:00 AM 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 | 2 | | | | Analyst: | JMT |
| EDA METUOD COAFMID TITLE | 2500 | 150 | | mg/Kg | 50 | 2/27/2020 2:04:04 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | 26 | 9.0 | | mg/Kg | 1 | 2/28/2020 8:52:55 AM | |
| 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 | | | | 701100 | | | 50641 |
| Gasoline Range Organics (GRO) | | | | | | Analyst: | NSB |
| Surr: BFB | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | 50628 |
| | 80.5 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:29:38 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | Med |
| Benzene | ND | 0.025 | | mg/Kg | 1 | | |
| Toluene | ND | 0.050 | | | | 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 | | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | 50628 |
| | 31,1 | 80-120 | | %Rec | 1 | 2/26/2020 2:29:38 AM | 50628 |

Matrix: SOIL

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
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Date Reported: 3/2/2020

2/26/2020 3:15:31 AM

2/26/2020 3:15:31 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-010

Xylenes, Total

Surr: 4-Bromofluorobenzene

Client Sample ID: S-4 2'

mg/Kg

%Rec

Collection Date: 2/19/2020 9:05:00 AM 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 72 60 mg/Kg 2/26/2020 1:11:19 AM 50663 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: CLP Diesel Range Organics (DRO) ND 9.7 mg/Kg 2/26/2020 2:18:50 PM 50641 Motor Oil Range Organics (MRO) ND 48 mg/Kg 2/26/2020 2:18:50 PM 50641 Surr: DNOP 119 55.1-146 %Rec 2/26/2020 2:18:50 PM 50641 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 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** Analyst: NSB Benzene ND 0.024 mg/Kg 2/26/2020 3:15:31 AM 50628 Toluene ND 0.048 mg/Kg 2/26/2020 3:15:31 AM 50628 Ethylbenzene ND 0.048 mg/Kg 2/26/2020 3:15:31 AM

ND

87.1

0.096

80-120

Matrix: SOIL

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
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

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50628

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50628

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-011

Client Sample ID: S-4 3'

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

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

| Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---------|--|--|--|--|--|--|
| | | | | | | |
| 400 | | | | | the state of the s | JMT |
| | 60 | | mg/Kg | 20 | 2/26/2020 1:23:39 AM | 50663 |
| RGANICS | | | | | Analyst: | CLP |
| ND | 9.7 | | ma/Ka | 1 | | 50641 |
| ND | 48 | | | 1 | | 50641 |
| 98.0 | 55.1-146 | | | 1 | | |
| | | | | | | 50641 |
| MID | | | | | | NSB |
| 1 | | | | 1 | 2/26/2020 3:38:23 AM | 50628 |
| 80.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:38:23 AM | 50628 |
| | | | | | Analyst: | NSB |
| ND | 0.024 | | ma/Ka | 1 | | |
| ND | 0.049 | | | | | 50628 |
| ND | 0.049 | | | 100 | | 50628 |
| ND | 0.097 | | | | | 50628 |
| 91.2 | 80-120 | | | 1 | 0/00/0000 0 | 50628 50628 |
| | 120 RGANICS ND ND 98.0 ND 80.7 ND ND ND ND ND | 120 60 RGANICS ND 9.7 ND 48 98.0 55.1-146 ND 4.9 80.7 66.6-105 ND 0.024 ND 0.049 ND 0.049 ND 0.097 | 120 60 RGANICS ND 9.7 ND 48 98.0 55.1-146 ND 4.9 80.7 66.6-105 ND 0.024 ND 0.049 ND 0.049 ND 0.097 | 120 60 mg/Kg RGANICS ND 9.7 mg/Kg ND 48 mg/Kg 98.0 55.1-146 %Rec ND 4.9 mg/Kg 80.7 66.6-105 %Rec ND 0.024 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg | 120 60 mg/Kg 20 RGANICS ND 9.7 mg/Kg 1 ND 48 mg/Kg 1 98.0 55.1-146 %Rec 1 ND 4.9 mg/Kg 1 80.7 66.6-105 %Rec 1 ND 0.024 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.097 mg/Kg 1 | Analyst: 120 60 mg/Kg 20 2/26/2020 1:23:39 AM RGANICS Analyst: ND 9.7 mg/Kg 1 2/26/2020 2:42:21 PM ND 48 mg/Kg 1 2/26/2020 2:42:21 PM 98.0 55.1-146 %Rec 1 2/26/2020 2:42:21 PM Analyst: ND 4.9 mg/Kg 1 2/26/2020 3:38:23 AM 80.7 66.6-105 %Rec 1 2/26/2020 3:38:23 AM Analyst: ND 0.024 mg/Kg 1 2/26/2020 3:38:23 AM ND 0.049 mg/Kg 1 2/26/2020 3:38:23 AM |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-012

Client Sample ID: S-4 4'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|------------|----------|------|------------|----|--|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 450 | | | | | Analyst | JMT |
| EPA METHOD SOLEMID DIEGO. | 150 | 60 | | mg/Kg | 20 | 2/26/2020 1:36:00 AM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst | CLP |
| 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 | 0.000 |
| PA METHOD 8015D: GASOLINE RANGE | | | | 327.9(5,5) | | | 50641 |
| Gasoline Range Organics (GRO) | ND | 7.4 | | | | Analyst: | NSB |
| Surr: BFB | ND 70.5 | 4.7 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| DA METHOD COOLD MAN | 78.5 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:01:17 AM | 50628 |
| PA METHOD 8021B: VOLATILES | | | | | | Analyst: | NCD |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM 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 | | 50628 |
| Surr: 4-Bromofluorobenzene | 89.0 | 80-120 | | %Rec | 1 | 2/26/2020 4:01:17 AM | 50628 |
| | | 23 120 | | 701760 | | 2/26/2020 4:01:17 AM | 50628 |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-013

Client Sample ID: S-5 0-1'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|--------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | AID | | | | | Analyst: | JMT |
| FPA METHOD 9045M/D. DIEGEL | ND | 60 | | mg/Kg | 20 | 2/26/2020 1:48:21 AM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CIP |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 2/26/2020 3:29:31 PM | |
| 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 |
| PA METHOD 8015D: GASOLINE RANGE | | | | 757.00 | , | | 50641 |
| Gasoline Range Organics (GRO) | ND | -75 | | | | Analyst: | NSB |
| Surr: BFB | ND | 4.6 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| DA METHOD SERVE | 78.6 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:24:11 AM | 50628 |
| PA METHOD 8021B: VOLATILES | | | | | | Analyst: | Nep |
| Benzene | ND | 0.023 | | mg/Kg | 1 | | |
| Toluene | ND | 0.046 | | | | 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 | 0.040 | | mg/Kg | 1 | | 50628 |
| Surr: 4-Bromofluorobenzene | 88.4 | | | mg/Kg | 1 | | 50628 |
| and the second s | 00.4 | 80-120 | | %Rec | 1 | 2/26/2020 4:24:11 AM | 50628 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-014

Client Sample ID: S-5 2'

Collection Date: 2/19/2020 9:30:00 AM 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 | 00 | | | | Analyst | |
| EPA METHOD 8015M/D: DIESEL RANGE OR | | 60 | | mg/Kg | 20 | 2/26/2020 11:42:43 AM | 50687 |
| Dissal Page On 1 (2) DIESEL RANGE OR | GANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 2/26/2020 3:53:05 PM | 50641 |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND | 46 | | mg/Kg | 1 | 2/26/2020 3:53:05 PM | 50641 |
| and the second s | 93.8 | 55.1-146 | | %Rec | 1 | 2/26/2020 3:53:05 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 6.5000 |
| Gasoline Range Organics (GRO) | ND | 4.7 | | malka | | Analyst: | |
| Surr: BFB | 79.7 | 66.6-105 | | mg/Kg %Rec | 1 | 2/26/2020 4:47:03 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | 1.01 | 00.0 100 | | 70KeC | i. | 2/26/2020 4:47:03 AM | 50628 |
| Benzene | | | | | | Analyst: | NSB |
| Toluene | ND | 0.023 | | 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 | 0.047 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Surr: 4-Bromofluorobenzene | ND | 0.093 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| - Signification of the significant of the significa | 91.1 | 80-120 | | %Rec | 1 | 2/26/2020 4:47:03 AM | 50628 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-015

Client Sample ID: S-5 3'

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

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 | 00 | | F17847 | | Analyst: | |
| EPA METHOD 8015M/D. DIESEL BANGE OF | | 60 | | mg/Kg | 20 | 2/26/2020 12:19:46 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.0 | | diam's | | Analyst: | NSB |
| Surr: BFB | 80.9 | 4.6 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| PA METHOD 8021B: VOLATILES | 60.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 1:44:35 PM | 50628 |
| - AP-17 THE SECTION OF THE SECTION O | | | | | | Analyst: | NSB |
| 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 | |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 0/00/0000 | 50628 |
| Surr: 4-Bromofluorobenzene | 90.6 | 80-120 | | %Rec | 1 | 0/00/0000 + + + | 50628 50628 |

Matrix: SOIL

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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-016

Client Sample ID: S-5 4'

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

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 | | | | | Analyst: | |
| FPA METHOD 8015M/D. DIFOEL BANGE OF | | 60 | | mg/Kg | 20 | 2/26/2020 12:32:08 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.0 | | | | Analyst: | NSB |
| Surr: BFB | 85.0 | 4.9 66.6-105 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | 05.0 | 00.0-105 | | %Rec | 1 | 2/26/2020 2:08:00 PM | 50628 |
| | | | | | | Analyst: | NSB |
| 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 |

Matrix: SOIL

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 Quanitative 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

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CLIENT: Talon Artesia

Arcturus 18 FED 2H

2002915-017

Project:

Lab ID:

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-6 0-1'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------------|---------|----------|------|-------|-----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | 111 | | | | | | |
| Chloride | ND | | | | | Analyst: | |
| EPA METHOD SOASMID, DISCOURS | | 60 | | mg/Kg | 20 | 2/26/2020 12:44:29 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | | Analyst: | BRM |
| Diesel Range Organics (DRO) | 3500 | 940 | | mg/Kg | 100 | | 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 | | 2/27/2020 7:30:12 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 110 |
| Gasoline Range Organics (GRO) | ND | 4.8 | | | | Analyst: | NSB |
| Surr: BFB | 79.3 | 66.6-105 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | 10.0 | 00.0-105 | | %Rec | 1 | 2/26/2020 2:31:29 PM | 50628 |
| | | | | | | Analyst: | NSB |
| 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 | 0/00/0000 0 0 4 | 50628 |

Matrix: SOIL

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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-018

Client Sample ID: S-6 2'

Collection Date: 2/19/2020 9:55:00 AM Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|----------|------|-------|----------|----------------------|------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 00 | | | | | Analyst | JMT |
| FPA METHOD 2015M/D. DIFOSI, DANIES | 63 | 60 | | mg/Kg | 20 | 2/26/2020 1:21:31 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/27/2020 7:52:04 PM | 50641 |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND | 46 | | mg/Kg | 1 | 2/27/2020 7:52:04 PM | 50641 |
| | 94.6 | 55.1-146 | | %Rec | 1 | 2/27/2020 7:52:04 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 2.5/2 10/4 |
| Gasoline Range Organics (GRO) | ND | 4.8 | | | <u>.</u> | Analyst: | NSB |
| Surr: BFB | 82.2 | 66.6-105 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | 02.2 | 00.0-105 | | %Rec | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Benzene | | | | | | Analyst: | NSB |
| Toluene | ND | 0.024 | 3 | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Ethylbenzene | ND | 0.048 | - 1 | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Xylenes, Total | ND | 0.048 | 1 | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Surr: 4-Bromofluorobenzene | ND | 0.096 | 1 | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| odii. 4-bioinolluoloperizene | 89.2 | 80-120 | (| %Rec | 1 | 2/26/2020 2:54:59 PM | 50628 |

Matrix: SOIL

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

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CLIENT: Talon Artesia

Arcturus 18 FED 2H

2002915-019

Project:

Lab ID:

Analytical Report Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-6 3' R

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 00 | | | | | Analyst: | JMT |
| FPA METHOD SOLEMID, DIEGEL TANKE | 80 | 60 | | mg/Kg | 20 | 2/26/2020 1:33:52 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CLP |
| 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 | |
| Surr: DNOP | 96.2 | 55.1-146 | | %Rec | 1 | 2/26/2020 6:14:26 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 50641 |
| Gasoline Range Organics (GRO) | ND | 4.0 | | | | Analyst: | NSB |
| Surr: BFB | 85.8 | 4.8 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | 05.0 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:18:11 PM | 50628 |
| 200g (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | Analyst: | NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 0/00/0000 5 15 | 50628 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 0/00/0000 | 50628 |
| Surr: 4-Bromofluorobenzene | 95.9 | 80-120 | | %Rec | 1 | 0/00/0000 0 15 | 50628 |
| | 10000 | 00 120 | | MEC | 1 | 2/26/2020 3:18:11 PM | 50628 |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-020

Client Sample ID: S-7 0-1'

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

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 | | | | | Analyst: | JMT |
| FPA METHOD 9015M/D. DIFOEL BANGE | 74 | 60 | | mg/Kg | 20 | 2/26/2020 1:46:13 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | 17 | 9.5 | | mg/Kg | 1 | 2/26/2020 6:37:50 PM | 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 | | | | | | | 15.25.61 |
| Gasoline Range Organics (GRO) | ND | 4.6 | | | | Analyst: | NSB |
| Surr: BFB | 78.7 | 4.9 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 10.1 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:41:45 PM | 50630 |
| 4. 시마시마시스 : () 4 () 4 () 4 () 4 () 4 () 4 () 4 () 4 () 4 () 4 () | | | | | | Analyst: | NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 0/00/0000 | |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 0/00/0000 | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | DIDOIDODO O | 50630 |
| Surr: 4-Bromofluorobenzene | 87.0 | 80-120 | | %Rec | 1 | 0/00/0000 0 11 1 | 50630 50630 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-021

Client Sample ID: S-7 2'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | _ | 7// | |
| Chloride | NID | | | | | Analyst: | JMT |
| FPA METHOD POARMID, DIFFORM | ND | 60 | | mg/Kg | 20 | 2/26/2020 2:23:15 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CIP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 152 | | | | Analyst: | NSB |
| Surr: BFB | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| EDA METHOD cooks | 83.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:52:07 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NED |
| Benzene | ND | 0.025 | | mg/Kg | 1 | | |
| 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 | | | | 0/00/0000 + | 50630 |
| Surr: 4-Bromofluorobenzene | 92.9 | 80-120 | | mg/Kg | 1 | 0/00/0000 + == | 50630 |
| | 32.0 | 50-120 | | %Rec | 1 | 2/26/2020 4:52:07 PM | 50630 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-022

Client Sample ID: S-7 3'

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

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 | 00 | | | | Analyst: | JMT |
| FPA METHOD 8015M/D. DIFOEL BANGE OF | | 60 | | mg/Kg | 20 | 2/26/2020 2:35:36 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 10 rd 10 |
| Gasoline Range Organics (GRO) | ND | 4.0 | | | | Analyst: | NSB |
| Surr: BFB | 82.4 | 4.8 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 02.4 | 66.6-105 | | %Rec | 1 | 2/26/2020 6:01:50 PM | 50630 |
| | | | | | | Analyst: | NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 0/00/0000 | 50630 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 0/00/0000 | 50630 |
| Surr: 4-Bromofluorobenzene | 91.9 | 80-120 | | %Rec | 1 | 0/00/0000 0 0 | 50630 |
| | | -5.150 | | 701166 | 1 | 2/26/2020 6:01:50 PM | 50630 |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-023

Client Sample ID: S-7 4'

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

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------------|--------|-----------------|------|-------|----|----------------------|-------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | C4 | | | | | Analyst: | JMT |
| FPA METHOD SOLEMAD, DIEGO, TOTAL | 61 | 60 | | mg/Kg | 20 | 2/26/2020 2:47:57 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | W. T. C. V. |
| Gasoline Range Organics (GRO) | ND | 47 | | | | Analyst: | NSB |
| Surr: BFB | 78.2 | 4.7 66.6-105 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 70.2 | 00.0-105 | | %Rec | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Benzene | | | | | | Analyst: | NSB |
| Toluene | ND | 0.023 | | 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 |
| | 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 | 2/20/2022 = 4= | 50630 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-024

Client Sample ID: S-8 0-1'

Collection Date: 2/19/2020 10:35:00 AM 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 | | | | | Analyst | JMT |
| EPA METHOD 9015M/D. DIFOEL DAVIGE | | 60 | | mg/Kg | 20 | 2/26/2020 3:00:18 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/26/2020 9:43:55 PM | 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 | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | 90 | | 50642 |
| Gasoline Range Organics (GRO) | MD | 2.0 | | | | Analyst: | NSB |
| Surr: BFB | ND 70.7 | 5.0 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | 50630 |
| | 78.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 7:58:40 PM | 50630 |
| PA METHOD 8021B: VOLATILES | | | | | | Analyst: | NCD |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | 50630 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | | 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 | 4 | 2/26/2020 7:58:40 PM | 50630 |
| | 37.0 | 55-120 | | wkec. | 1 | 2/26/2020 7:58:40 PM | 50630 |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-025

Client Sample ID: S-8 2'

Collection Date: 2/19/2020 10:40:00 AM

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 | | | | | Analyst: | JMT |
| EPA METHOD 2015M/D. DIEGEL TANKE | | 60 | | mg/Kg | 20 | 2/26/2020 3:12:39 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/26/2020 10:07:05 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 2/26/2020 10:07:05 PM | 50642 |
| Surr: DNOP | 95.8 | 55.1-146 | | %Rec | 1 | 2/26/2020 10:07:05 PM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | ALCOHOL: |
| Gasoline Range Organics (GRO) | ND | 4.4 | | | | Analyst: | NSB |
| Surr: BFB | 81.2 | 4.7 | | mg/Kg | 1 | 2/26/2020 8:22:04 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 01.2 | 66.6-105 | | %Rec | 1 | 2/26/2020 8:22:04 PM | 50630 |
| | | | | | | Analyst: | NSB |
| Benzene Toluene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 8:22:04 PM | 50630 |
| | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 8:22:04 PM | 50630 |
| Ethylbenzene Yulonga Tatal | ND | 0.047 | | mg/Kg | 1 | 0/00/0000 | 50630 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 0/00/0000 0 00 | 50630 |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | | %Rec | | 0/00/0000 0 00 0 | 50630 |

Matrix: SOIL

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 Quanitative Limit
- PQL Practical Quanitative 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

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Lab Order 2002915

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-026

Client Sample ID: S-8 3'

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

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

| Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------|--|--|--|---|--|--|
| | | | | | | |
| NID | | | | | | JMT |
| | 60 | | mg/Kg | 20 | 2/26/2020 3:49:40 PM | 50687 |
| GANICS | | | | | Analyst: | CLP |
| ND | 9.5 | | mg/Kg | 1 | | 50642 |
| ND | 47 | | mg/Kg | 1 | | 50642 |
| 96.3 | 55.1-146 | | %Rec | 1 | | 50642 |
| | | | | | | |
| ND | 4.0 | | | | | NSB |
| 1,150 | 0.00 | | 11.30 | 1 | | 50630 |
| 10.1 | 66.6-105 | | %Rec | 1 | 2/26/2020 8:45:27 PM | 50630 |
| | | | | | Analyst ⁻ | NSB |
| ND | 0.025 | | ma/Ka | 1 | the same of the sa | 50630 |
| ND | 0.049 | | | | | |
| ND | 0.049 | | | | | 50630 |
| ND | 0.099 | | | 1 | | 50630 |
| 87.5 | | | | 1 | | 50630 50630 |
| | ND GANICS ND ND 96.3 ND 78.7 ND ND ND ND ND ND | ND 60 GANICS ND 9.5 ND 47 96.3 55.1-146 ND 4.9 78.7 66.6-105 ND 0.025 ND 0.049 ND 0.049 ND 0.099 | ND 60 GANICS ND 9.5 ND 47 96.3 55.1-146 ND 4.9 78.7 66.6-105 ND 0.025 ND 0.049 ND 0.049 ND 0.099 | ND 60 mg/Kg GANICS ND 9.5 mg/Kg ND 47 mg/Kg 96.3 55.1-146 %Rec ND 4.9 mg/Kg 78.7 66.6-105 %Rec ND 0.025 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.099 mg/Kg | ND 60 mg/Kg 20 GANICS ND 9.5 mg/Kg 1 ND 47 mg/Kg 1 96.3 55.1-146 %Rec 1 ND 4.9 mg/Kg 1 78.7 66.6-105 %Rec 1 ND 0.025 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.099 mg/Kg 1 | Analyst: ND 60 mg/Kg 20 2/26/2020 3:49:40 PM GANICS Analyst: ND 9.5 mg/Kg 1 2/26/2020 10:53:26 PM ND 47 mg/Kg 1 2/26/2020 10:53:26 PM 96.3 55.1-146 %Rec 1 2/26/2020 10:53:26 PM Analyst: ND 4.9 mg/Kg 1 2/26/2020 8:45:27 PM 78.7 66.6-105 %Rec 1 2/26/2020 8:45:27 PM Analyst: ND 0.025 mg/Kg 1 2/26/2020 8:45:27 PM ND 0.049 mg/Kg 1 2/26/2020 8:45:27 PM |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-027

Client Sample ID: S-8 4'

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

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 | | malka | 20 | Analyst: | |
| EPA METHOD 8015M/D: DIESEL RANGE OF | 17,130 | 00 | | mg/Kg | 20 | 2/26/2020 4:02:02 PM | 50687 |
| | RGANICS | | | | | Analyst: | CLP |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 1000 |
| Gasoline Range Organics (GRO) | ND | 4.9 | | | 4 | Analyst: | NSB |
| Surr: BFB | 79.3 | | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| EDA METLIOD COOLD MONTH | 79.5 | 66.6-105 | | %Rec | 1 | 2/26/2020 9:08:48 PM | 50630 |
| PA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| 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 | |
| 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 50630 |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-028

Client Sample ID: S-9 0-1'

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

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 | | | CACTANA C | | Analyst: | JMT |
| EPA METHOD 8015M/D. DIESEL DANIES | | 60 | | mg/Kg | 20 | 2/26/2020 4:14:23 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst: | BRM |
| 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 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.0 | | | | Analyst: | NSB |
| Surr: BFB | 79.8 | 4.8 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 19.0 | 66.6-105 | | %Rec | 1 | 2/26/2020 9:32:07 PM | 50630 |
| | | | | | | Analyst: | NSB |
| Benzene Toluene | ND | 0.024 | - 1 | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| | 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 | 0/00/000 | 50630 |

Matrix: SOIL

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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-029

Client Sample ID: S-9 2'

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

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 | | | | | Analyst | JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | | 60 | | mg/Kg | 20 | 2/26/2020 4:26:44 PM | 50687 |
| Dissel Barre Own in the sell RANGE ORC | SANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/27/2020 12:02:56 AM | 50642 |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND | 50 | | mg/Kg | 1 | 2/27/2020 12:02:56 AM | 50642 |
| | 96.7 | 55.1-146 | | %Rec | 1 | 2/27/2020 12:02:56 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | ANGRE |
| Gasoline Range Organics (GRO) | ND | 4.9 | | ma = 116 | | Analyst: | NSB |
| Surr: BFB | 79.3 | 66.6-105 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 70.0 | 00.0-103 | | %Rec | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Benzene | | | | | | Analyst: | NSB |
| Toluene | ND | 0.024 | | 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 | 0.049 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Surr: 4-Bromofluorobenzene | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| osii. 4 Bromondoropenzene | 89.1 | 80-120 | | %Rec | 1 | 2/26/2020 9:55:23 PM | 50630 |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-030

Client Sample ID: S-9 3' R

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

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 | 00 | | C = w2 / = | | Analyst: | JMT |
| EPA METHOD SOLEMID, DIEGEL T | 10.0000 | 60 | | mg/Kg | 20 | 2/26/2020 4:39:05 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: | CLP |
| 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 | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | 110100 | | | 50642 |
| Gasoline Range Organics (GRO) | 116 | | | | | Analyst: | NSB |
| Surr: BFB | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| | 76.8 | 66.6-105 | | %Rec | 1 | 2/26/2020 10:18:39 PM | 50630 |
| PA METHOD 8021B: VOLATILES | | | | | | Analyst: | Nep |
| Benzene | ND | 0.025 | | mg/Kg | 1 | | |
| Toluene | ND | 0.049 | | | | 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 | 0.049 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 86.5 | | | mg/Kg | 1 | | 50630 |
| | 00.5 | 80-120 | | %Rec | 1 | 2/26/2020 10:18:39 PM | 50630 |
| | | | | | | | |

Matrix: SOIL

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 Quanitative 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

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Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-031

Client Sample ID: S-10 0-1'

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

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 | 450 | | | | Analyst | JMT |
| FPA METHOD 2015M/D. DIEGEL DANIES | | 150 | | mg/Kg | 50 | 2/27/2020 2:16:25 PM | 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | 37 | 9.9 | | mg/Kg | 1 | 2/27/2020 12:49:08 AM | 50642 |
| Motor Oil Range Organics (MRO) Surr: DNOP | 56 | 49 | | mg/Kg | 1 | 2/27/2020 12:49:08 AM | 50642 |
| | 115 | 55.1-146 | | %Rec | 1 | 2/27/2020 12:49:08 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | 10 0 0 0 1 m |
| Gasoline Range Organics (GRO) | ND | 4.8 | | | 4. | Analyst: | NSB |
| Surr: BFB | 80.1 | 66.6-105 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | 00.1 | 00.0-103 | | %Rec | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Benzene | | | | | | Analyst: | NSB |
| Toluene | ND | 0.024 | | 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 | 0.048 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| | ND | 0.097 | 1 | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | | %Rec | 1 | 0.000.0000 | 50630 |
| | | | | | | | -0000 |

Matrix: SOIL

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 Quanitative 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

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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 OR | GANICS | | | | | 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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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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 ORG | GANICS | | | | | 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.
- 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

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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

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

| Analyses | Result | RL Q | ual 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 ORG | GANICS | | | | 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 |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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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 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 ORG | SANICS | | | | | 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 |

Matrix: SOIL

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

Qualifiers:

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

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

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

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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

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 ORG | GANICS | | | | | 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 |
| | | | | | | | |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-038

Client Sample ID: S-12 0-1'

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

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 ORG | GANICS | | | | | 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 |

Matrix: SOIL

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 Quanitative 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

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Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-039

Client Sample ID: S-12 2'

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

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 ORG | GANICS | | | | | 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 |
| | | | | | | | |

Matrix: SOIL

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 Quanitative 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

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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 U | nits | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|--------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: | JMT |
| Chloride | ND | 60 | m | ng/Kg | 20 | 2/26/2020 7:31:58 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | | Analyst: | CLP |
| Diesel Range Organics (DRO) | ND | 9.2 | m | ng/Kg | 1 | 2/27/2020 4:17:26 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 46 | m | ng/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 | m | ng/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Surr: BFB | 79.9 | 66.6-105 | % | 6Rec | 1 | 2/27/2020 10:10:03 AM | 50631 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| Benzene | ND | 0.025 | m | ng/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Toluene | ND | 0.049 | m | ng/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Ethylbenzene | ND | 0.049 | m | ng/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Xylenes, Total | ND | 0.099 | m | ng/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Surr: 4-Bromofluorobenzene | 88.7 | 80-120 | % | 6Rec | 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

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Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-041

Client Sample ID: S-12 4'

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

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 ORG | GANICS | | | | | 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 |
| | | | | | | | |

Matrix: SOIL

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

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Analytical Report Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Arcturus 18 FED 2H

Lab ID: 2002915-042

Client Sample ID: BG

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

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 ORG | GANICS | | | | | 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 |

Matrix: SOIL

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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

2002915

02-Mar-20

Qual

Qual

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 HighLimit

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

Chloride

ND 1.5

Sample ID: LCS-50663

SampType: Ics

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**

Chloride 14 1.5 15.00 93.2

Sample ID: MB-50687

SampType: mblk Batch ID: 50687 TestCode: EPA Method 300.0: Anions

RunNo: 66815

Prep Date: 2/26/2020

PBS

Analysis Date: 2/26/2020

SeqNo: 2298438

Units: mg/Kg

%RPD

%RPD

%RPD

Analyte

POL 15

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit Qual

Chloride

Client ID:

SampType: Ics

TestCode: EPA Method 300.0: Anions

Sample ID: LCS-50687 Client ID: LCSS

Batch ID: 50687

RunNo: 66815

Prep Date:

2/26/2020 Analysis Date: 2/26/2020 SeqNo: 2298439

Units: mg/Kg HighLimit

Analyte

Result

Result

91

91

Result

ND

PQL SPK value SPK Ref Val

110

Chloride

14 1.5 15.00 %REC LowLimit 92.9

RPDLimit

Qual

Sample ID: 2002915-014AMS

SampType: ms

TestCode: EPA Method 300.0: Anions

90

Prep Date: 2/26/2020 Batch ID: 50687

RunNo: 66815

%REC

87.4

Client ID: S-5 2'

Analysis Date: 2/26/2020 PQL

60

SeqNo: 2298443

Units: mg/Kg

161

Analyte

SPK value SPK Ref Val

30.00

30.00

LowLimit HighLimit **RPDLimit** Qual

Chloride

SampType: msd

TestCode: EPA Method 300.0: Anions

Sample ID: 2002915-014AMSD Client ID: S-5 2'

Batch ID: 50687

RunNo: 66815

50.4

Prep Date:

2/26/2020

Analysis Date: 2/26/2020

SeqNo: 2298444

Units: mg/Kg

Chloride

Analyte

Result PQL

61

SPK value SPK Ref Val

65.04

65.04

%REC 86.3

LowLimit 50.4

HighLimit %RPD 161 0.361

RPDLimit

Qual 20

H

- Qualifiers: Value exceeds Maximum Contaminant Level
 - Sample Diluted Due to Matrix
- Not Detected at the Reporting Limit ND POL Practical Quantitative Limit
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Sample pH Not In Range

Reporting Limit

- Analyte detected below quantitation limits
 - Page 43 of 54

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

1.5

SeqNo: 2298468

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

Sample ID: LCS-50702

SampType: Ics

TestCode: EPA Method 300.0: Anions

Prep Date: 2/26/2020

Client ID: LCSS

Batch ID: 50702

RunNo: 66815

Analysis Date: 2/26/2020

SeqNo: 2298469

Units: mg/Kg

RPDLimit

Qual

Analyte

PQL SPK value SPK Ref Val %REC LowLimit

15.00

%RPD

Chloride

ND

92.8

HighLimit

Qualifiers:

ND

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit POL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 44 of 54

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002915 02-Mar-20**

| Chent: | |
|---------|--|
| Duniant | |

Talon Artesia

Project:

Arcturus 18 FED 2H

| Sample ID: LCS-50681 | SampType: LCS | | | ype: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------|---------------|--------|-----------|--|----------|----------|-------------|------|----------|------|--|--|
| Client ID: LCSS | Batcl | 1D: 50 | 681 | F | RunNo: 6 | 6803 | | | | | | |
| Prep Date: 2/26/2020 | Analysis D | ate: 2 | 26/2020 | \$ | SeqNo: 2 | 297105 | Units: %Red | C | | | | |
| 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 | SampT | ype: MI | BLK | Tes | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics | |
|----------------------|------------|----------|-----------|-------------|----------|-----------|--------------|-----------|------------|------|
| Client ID: PBS | Batch | n ID: 50 | 681 | F | RunNo: 6 | 6803 | | | | |
| Prep Date: 2/26/2020 | Analysis D |)ate: 2 | /26/2020 | 5 | SeqNo: 2 | 297106 | Units: %Red | c | | |
| 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 | SampT | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|------------|----------------|-----------|--------------|---|----------|-------------|------|----------|------|--|--|
| Client ID: PBS | Batcl | n ID: 50 | 641 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis D | Date: 2/ | 26/2020 | | SeqNo: 2 | 297210 | Units: mg/K | (g | | | | |
| 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 | Batc | h ID: 50 | 641 | RunNo: 66801 | | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis E | Date: 2/ | 26/2020 | \$ | SeqNo: 2 | 297211 | Units: mg/K | (g | | | | | |
| 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 | Samp | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|------------|----------|-----------|---|-----------|----------|-------------|------|----------|------|--|--|
| Client ID: LCSS | Batcl | h ID: 50 | 643 | F | RunNo: 6 | 6803 | | | | | | |
| Prep Date: 2/25/2020 | Analysis D | Date: 2/ | 26/2020 | \$ | SeqNo: 2: | 297433 | Units: mg/F | (g | | | | |
| 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 | SampT | ype: ME | BLK | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
|-----------------------------|------------|----------|-----------|-------------|----------|-----------|-------------|-----------|------------|------|
| Client ID: PBS | Batcl | n ID: 50 | 643 | F | RunNo: 6 | 6803 | | | | |
| Prep Date: 2/25/2020 | Analysis E | oate: 2/ | 26/2020 | \$ | SeqNo: 2 | 2297434 | Units: mg/K | (g | | |
| 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2002915

02-Mar-20

Client:

Talon Artesia

| Project: Arcturus | 18 FED 2H | ı. | | | | | | | | |
|--------------------------------|-------------|---------|-----------|-------------|--------------|-----------|---------------|------------|--------------|--------|
| Sample ID: MB-50643 | SampT | ype: M | BLK | Tes | stCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: PBS | Batch | ID: 50 | 0643 | 1 | RunNo: 66803 | | | | | |
| Prep Date: 2/25/2020 | Analysis Da | ate: 2 | /26/2020 | - 3 | SeqNo: 2 | 297434 | Units: mg/l | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | Lowl imit | Highl imit | %RPD | RPDLimit | Qua |
| Motor Oil Range Organics (MRO) | ND | 50 | | 0,111101101 | 701120 | LOWEITH | riigiiLiiiii | 701(1 D | IN DEIMIE | Qua |
| Surr: DNOP | 12 | | 10.00 | | 120 | 55.1 | 146 | | | |
| Sample ID: 2002915-001AMS | SampTy | /pe: M | S | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: S-1 0-1' | Batch | ID: 50 | 641 | | RunNo: 6 | | | | 1171 B. 1112 | |
| Prep Date: 2/25/2020 | Analysis Da | ate: 2 | /26/2020 | | SeqNo: 2 | 297592 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qua |
| Diesel Range Organics (DRO) | 62 | 9.4 | | 0 | 132 | 47.4 | 136 | | DEMINIT | - Cada |
| Surr: DNOP | 6.9 | | 4.686 | | 147 | 55.1 | 146 | | | S |
| Sample ID: 2002915-001AMS | D SampTy | pe: M | SD | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: S-1 0-1' | Batch | ID: 50 | 641 | | RunNo: 6 | | | | | |
| Prep Date: 2/25/2020 | Analysis Da | ate: 2 | /26/2020 | | SeqNo: 2 | 297593 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qua |
| Diesel Range Organics (DRO) | 54 | 9.6 | 47.98 | 0 | 112 | 47.4 | 136 | 14.7 | 43.4 | Gua |
| Surr: DNOP | 5.6 | | 4.798 | | 117 | 55.1 | 146 | 0 | 0 | |
| Sample ID: 2002915-021AMS | SampTy | pe: M | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: S-7 2' | Batch | ID: 50 | 642 | | RunNo: 6 | | | | | |
| Prep Date: 2/25/2020 | Analysis Da | ite: 2 | 26/2020 | 5 | SeqNo: 2 | 299249 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qua |
| Diesel Range Organics (DRO) | 45 | 9.5 | 47.39 | 0 | 93.9 | 47.4 | 136 | ,. 9 | , o, e emint | Qua |
| Surr: DNOP | 4.5 | | 4.739 | | 95.1 | 55.1 | 146 | | | |
| Sample ID: 2002915-021AMSI | D SampTy | pe: MS | SD | Tes | tCode: El | PA Method | 8015M/D: Die | esel Range | e Organics | |
| Client ID: S-7 2' | Batch | ID: 50 | 642 | | RunNo: 6 | | | 4 | 200 | |
| Prep Date: 2/25/2020 | Analysis Da | ite: 2/ | 26/2020 | 8 | SeqNo: 2: | 299250 | Units: mg/K | (g | | |
| 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 | Qual |
| Surr: DNOP | 4.2 | | 4.413 | | 95.1 | 55.1 | 146 | 0 | 0 | |
| Sample ID: MB-50642 | SampTy | pe: ME | BLK | Tes | tCode: El | PA Method | 8015M/D: Die | esel Range | e Organics | |
| Client ID: PBS | Batch | | | | RunNo: 60 | | 7 | | | |
| Prep Date: 2/25/2020 | Analysis Da | | | | SeqNo: 2 | | Units: mg/K | 2 | | |
| | ,010 00 | 21 | _0,_0_0 | | - Sq. 10. Z | 200210 | Jinis. IIIg/N | 9 | | |

Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Result

PQL

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

HighLimit

%RPD

E Value above quantitation range

J Analyte detected below quantitation limits
 P Sample pH Not In Range

RL Reporting Limit

SPK value SPK Ref Val %REC LowLimit

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client:

Talon Artesia

| Sample ID: MB-50642 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organ | nics |
|---|-----------------------------------|--|----------------------------------|-----------|
| 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 RPDL | imit Qua |
| Diesel Range Organics (DRO) | ND 10 | | | |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND 50 | 1.5 | 1.25 | |
| Suit: DINOP | 11 10.00 | 113 55.1 | 146 | |
| Sample ID: LCS-50642 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range Organ | nics |
| 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 RPDL | imit Qua |
| 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 Organ | nics |
| 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 RPDL | imit Qua |
| Surr: DNOP | 5.1 5.000 | 101 55.1 | 146 | and again |
| Sample ID: MB-50685 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organ | nics |
| Client ID: PBS | Batch ID: 50685 | RunNo: 66879 | ar raine ar arrows manage or gan | |
| Prep Date: 2/26/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299850 | Units: %Rec | |
| Analyte | | SPK Ref Val %REC LowLimit | | insta |
| Surr: DNOP | 11 10.00 | 115 55.1 | HighLimit %RPD RPDL | imit Qua |
| Sample ID: MB-50766 | SampType: MBLK | TootCode: FD# ##. # 1 | | az :- |
| Client ID: PBS | Batch ID: 50766 | RunNo: 66883 | 8015M/D: Diesel Range Orgar | iics |
| Prep Date: 2/28/2020 | Analysis Date: 2/28/2020 | SeqNo: 2302390 | Units: %Rec | |
| 1000 | | | | .5 |
| Analyte Surr: DNOP | Result PQL SPK value 8.7 10.00 | SPK Ref Val %REC LowLimit 86.6 55.1 | HighLimit %RPD RPDL 146 | imit Qual |
| | | 30.0 30.1 | 170 | |
| Sample ID: LCS-50766 | SampType: LCS | | 8015M/D: Diesel Range Organ | nics |
| Client ID: LCSS | Batch ID: 50766 | RunNo: 66883 | | |
| Prep Date: 2/28/2020 | Analysis Date: 2/28/2020 | SeqNo: 2302393 | Units: %Rec | |
| | | | | |

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 Quanitative 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

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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 | 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 valu | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qu | | | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 850 100 | 85.0 66.6 | 105 | | | | | | | |
| Sample ID: Ics-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 valu | e SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qui | | | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | 26 5.0 25.0 960 100 | | 120 105 | | | | | | | |
| 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 valu | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qua | | | | | | | |
| Surr: BFB | 850 100 | 85.2 66.6 | 105 | | | | | | | |
| Sample ID: Ics-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 valu | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qua | | | | | | | |
| Surr: BFB | 910 100 | 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 valu | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qua | | | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 820 100 | 81.6 66.6 | 105 | | | | | | | |
| Sample ID: Ics-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 valu | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qua | | | | | | | |
| Gasoline Range Organics (GRO) | 23 5.0 25.0 | 0 93.6 80 | 120 | | | | | | | |
| Surr: BFB | 920 100 | 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915 02-Mar-20

Client:

Talon Artesia

| Project: Arcturu | s 18 FED 2H | | | | | | | | |
|--|------------------|----------------|-------------|--------------|--------------|-------------|--------------|-------------------|------|
| Sample ID: 2002915-020ams | s SampType: M | S | Tes | tCode: E | PA Method | 8015D: Gas | oline Rang | e | |
| Client ID: S-7 0-1' | Batch ID: 50 | 630 | F | RunNo: 6 | 6806 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /26/2020 | 5 | SeqNo: 2 | 297876 | Units: mg/l | ≺ g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | 21 4.6 830 | 22.98 919.1 | 0 | 93.6 89.8 | 69.1 66.6 | 142 105 | | | |
| Sample ID: 2002915-020ams | sd SampType: M | SD | Tes | tCode: E | PA Method | 8015D: Gas | oline Rang | е | |
| Client ID: S-7 0-1' | Batch ID: 50 | 630 | F | RunNo: 6 | 6806 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /26/2020 | | SeqNo: 2 | 297877 | Units: mg/l | √ g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | 21 4.8 860 | 23.99 959.7 | 0 | 89.6 89.2 | 69.1 66.6 | 142 105 | 0.00484 0 | 20 0 | |
| Sample ID: mb-50631 | SampType: M | BLK | Tes | tCode: E | PA Method | 8015D: Gas | oline Rang | e | |
| Client ID: PBS | Batch ID: 50 | 631 | F | RunNo: 6 | 6878 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /27/2020 | 5 | SeqNo: 2 | 299731 | Units: mg/l | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 820 | | | 82.5 | 66.6 | 105 | | No. Wash a School | |
| Sample ID: Ics-50631 | SampType: L0 | cs | Tes | tCode: El | PA Method | 8015D: Gas | oline Rang | e | |
| Client ID: LCSS | Batch ID: 50 | 631 | F | RunNo: 6 | 6878 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /27/2020 | 5 | SeqNo: 2 | 299732 | Units: mg/l | K g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | 22 5.0 940 | 25.00 1000 | 0 | 87.6 93.9 | 80 66.6 | 120 105 | | | |
| Sample ID: 2002915-040ams | SampType: M | S | Tes | tCode: El | PA Method | 8015D: Gase | oline Rang | e | |
| Client ID: S-12 3' | Batch ID: 50 | 631 | F | RunNo: 6 | 6878 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /27/2020 | \$ | SeqNo: 2 | 299734 | Units: mg/l | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | 21 4.7 850 | 23.70 947.9 | 0 | 88.0 89.5 | 69.1 66.6 | 142 105 | | | |
| Sample ID: 2002915-040ams | sd SampType: M | SD | Tes | tCode: El | PA Method | 8015D: Gase | oline Rang | e | |
| Client ID: S-12 3' | Batch ID: 50 | 631 | F | RunNo: 6 | 6878 | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2 | /27/2020 | 5 | SeqNo: 2 | 299735 | Units: mg/l | (g | | |
| Analyte | Result PQL | | | | | | | | |

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 200

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 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 Quanitative 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

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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 | | | F | RunNo: 6 | 6771 | | | | | | |
| Prep Date: 2/24/2020 | Analysis [| Date: 2/ | 25/2020 | 020 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 | Samp | Type: LC | s | Tes | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|--|----------|---------|----------------|---------------------------------------|------|-------------|------|--|--|--|
| Client ID: LCSS | Batc | h ID: 50 | 628 | F | | | | | | | |
| Prep Date: 2/24/2020 | Analysis [| Date: 2/ | 25/2020 | SeqNo: 2296911 | | | Units: mg/K | (g | | | |
| 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' | Batc | Batch ID: 50628 | | | RunNo: 6 | | | | | | | |
| 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 Prep Date: 2/24/2020 Analysis Date: 2/25/2020 | | | F | RunNo: 66771 | | | | | | | | |
| | | | 5 | SeqNo: 2 | 296915 | Units: mg/K | | | | | | |
| 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 Quanitative 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

Page 51 of 54

Hall Environmental Analysis Laboratory, Inc.

WO#:

2002915

02-Mar-20

Client:

Talon Artesia

Project:

Arcturus 18 FED 2H

| Sample ID | : MB-50657 | Sa |
|------------|------------|----|
| Client ID: | PBS | 1 |

Surr: 4-Bromofluorobenzene

ampType: MBLK TestCode: EPA Method 8021B: Volatiles

Batch ID: 50657 RunNo: 66806

1.000

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 SPK value SPK Ref Val %REC LowLimit Result HighLimit %RPD **RPDLimit** Qual

116

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 SegNo: 2297912 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD HighLimit **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.90 90.2 1.000 80 120

| Sample ID: LCS-50630 | Samp | Type: LC | S | Tes | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|------------|----------------------------|-----------|-------------|---------------------------------------|----------------------|-----------|------|----------|------|--|
| Client ID: LCSS | Batc | Batch ID: 50630 | | | RunNo: 6 | 6806 | | | | | |
| Prep Date: 2/24/2020 | Analysis I | Pate: 2/26/2020 SeqNo: 229 | | | | 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 Batch ID: 50630 | | | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|---------------------------|------------------------------|----------|-----------|---------------------------------------|----------|----------|--------------|------|----------|------|--|--|
| Client ID: S-7 2' | | | | F | RunNo: 6 | 6806 | | | | | | |
| Prep Date: 2/24/2020 | Analysis D | 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 Quanitative 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

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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

%REC LowLimit %RPD

Surr: 4-Bromofluorobenzene

Sample ID: 2002915-021amsd

S-7 2'

0.92

SPK value SPK Ref Val 0.9862 92.8 HighLimit 120 **RPDLimit**

Qual

Qual

SampType: MSD TestCode: EPA Method 8021B: Volatiles Batch ID: 50630

RunNo: 66806

Prep Date: 2/24/2020

Client ID:

Analysis Date: 2/26/2020

SeqNo: 2297917

Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** 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 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

Sample ID: mb-50631

Client ID: PBS SampType: MBLK Batch ID: 50631

TestCode: EPA Method 8021B: Volatiles

RunNo: 66878

Prep Date: 2/24/2020 Analysis Date: 2/27/2020

SeqNo: 2299780

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Analyte Result PQL Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 ND 0.10

Xylenes, Total Surr: 4-Bromofluorobenzene

1.000

89.2

80 120

Sample ID: LCS-50631 Client ID: LCSS

SampType: LCS Batch ID: 50631

0.89

RunNo: 66878

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8021B: Volatiles

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 0.10 3.000 95.5 80 120 Surr: 4-Bromofluorobenzene 0.93 1.000 93.1 120

Sample ID: 2002915-041ams

Client ID:

SampType: MS

TestCode: EPA Method 8021B: Volatiles

Batch ID: 50631

RunNo: 66878

Prep Date:

2/24/2020

Analysis Date: 2/27/2020

Result

SegNo: 2299784

HighLimit

Analyte

Units: mg/Kg

%RPD

RPDLimit

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

SPK value SPK Ref Val %REC LowLimit

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

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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 | | | F | RunNo: 6 | 6878 | | | | | | |
| 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 | | | F | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 Analysis Date: 2/27/2020 | | | | SeqNo: 2299785 | | | Units: mg/K | (g | | | | |
| 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 Quanitative 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

| Client Name: TALON ARTESIA | Work Order Number | r: 200 | 2915 | | | RoptNo: 1 |
|--|---------------------|-----------|----------|----------|-----------|--|
| Received By: Yazmine Garduno 2/ | /22/2020 9:05:00 AI | VI. | | Afrysin | Lifnatut | F. |
| Completed By: Isaiah Ortiz | | | | 7 | _ C | 2-4 |
| Reviewed By: 3P 2/24/20 | | | | 7 | | |
| Chain of Custody | | | | | | |
| 1. Is Chain of Custody sufficiently complete? | | Yes | V | No | | Not Present |
| 2. How was the sample delivered? | | Cou | rier | | | |
| Log In | | | | | | |
| 3. Was an attempt made to cool the samples? | | Yes | V | No | | NA 🗆 |
| 4. Were all samples received at a temperature of > | >0° C to 6.0°C | Yes | V | No | | NA 🗆 |
| 5. Sample(s) in proper container(s)? | | Yes | V | No | | |
| 3. Sufficient sample volume for indicated test(s)? | | Yes | | No | | |
| 7. Are samples (except VOA and ONG) properly pre | eserved? | Yes | V | No | | |
| B. Was preservative added to bottles? | | Yes | | No | V | NA 🗆 |
| 9. Received at least 1 vial with headspace <1/4" for | AQ VOA? | Yes | | No | | NA 🗹 🗡 |
| Were any sample containers received broken? | | Yes | | No | ~ | # of preserved |
| Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes | V | No | | bottles checked for pH: (<2 of >12 unless noted |
| 2. Are matrices correctly identified on Chain of Cust | tody? | Yes | V | No | | Adjusted? |
| 3. Is it clear what analyses were requested? | | Yes | V | No | | / Su aloutle |
| 4. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes | V | No | | Checked by 46 224/2 |
| pecial Handling (if applicable) | | | | | | · |
| 5. Was client notified of all discrepancies with this of | order? | Yes | | No | | NA 🗹 |
| Person Notified: By Whom: Regarding: Client Instructions: | Date Via: | ☐ eM | il 🔲 F | Phone | Fax | ☐ In Person |
| 6. Additional remarks: | Till town to the | T 2 (4)44 | | ***** | 14 Dr. 15 | Company of the compan |
| 7. Cooler Information | | | | | | |
| Cooler No Temp °C Condition Seaf In | ntact Seal No | Seel D | io T. E. | Signed E | | |
| 1 5.2 Good | IRGOL SENTINU | Otal D | ale . | Signed E | y. | |

| Chain-of-Custody Record | Turn-Around Time: | | | | | | Ш | 3 | | HALL ENVIRONMENTAL | | |
|--|---------------------------------|--|------------|--------------------|-------------------|----------|----------------|---------|---------------------------|---|---------------------|---|
| Client: Thus UE | X Standard | | | | 4 | Z | 3 | SI | 1 | BOR | ANALYSIS LABORATORY | |
| | Project Name: | | | | _ | ww.h | allen | ironn | www.hallenvironmental.com | moo. | | |
| Mailing Address: 408 (A. TEXAS AUE | ARCTURUS 18 FED 2H | T | ٧ | 1901 | Hawkir | IS NE | - A | ndne | erque, | 4901 Hawkins NE - Albuquerque, NM 87109 | | |
| 1 | Project #: | | | Tel. 5 | Tel. 505-345-3975 | 5-397 | | -ax | 505-3 | Fax 505-345-4107 | | |
| Phone #: 515- 746 -8768 | 700744.303.01 | | - | - | | - | Anal | Sis | Analysis Request | st | | |
| email or Fax#. | Project Manager: | | 0.57 | _ | | | OS | | | (iue | | - |
| QA/QC Package: | | | | 776 | | SMI | O [†] | | | | | _ |
| | CHRIS JONES | | | | | S0/ | d '8 | | | | | |
| Accreditation: Az Compliance | Sampler: MICHAEL COLLER | ER | | | | .78 | ON | | | _ | | |
| | On Ice: 🗁 Yes 🗀 No | No | | | | | | | | | | |
| (be) | # of Coolers: 3- 5.2(d) | 31.5.C | | 1300 | | | _ | | | | | |
| | Cooler Temp(including of): マーター | 1-6-6 | - | | | | | | | | | |
| | Container Preservative | HEAL No. | TEX / | 08:H9 | M) ad | d aHA | H'H' | V) 09Z | 270 (5 | otal Co | | |
| Date Time Matrix Sample Name | Type and # Type / | 200 (200 | _ | - | - | | - | _ | _ | | | T |
| 8-19-20 8:00a Soil S-1 6-1 | GLASS ICE COLD | 100- | , | | 1 | + | - | | 1 | 2 | | 1 |
| 5-1 | | -007 | | | | \dashv | - | | + | | | - |
| 5-7 | | -003 | | | | | | | | | | - |
| 8.3 | | -004 | | | | | | | | | | |
| 6.3 | | -005 | | | | - | | | | | | 1 |
| 5-3 | | 900- | | | | | | | | | | Т |
| 5-3 | | -007 | | | | | _ | | | | | 1 |
| \$ | | -00% | | | | \dashv | | | 1 | | | T |
| h-3 | | -000 | | - | | \dashv | | | | | | 1 |
| N-4 | | -010 | | | | + | - | | | | | T |
| | | 110- | -2 | | | | | | 1 | | | T |
| Soil S-4 | GLASS LA ICE COND | 9 | .2 | | | | | | | > | | |
| Time: Relinquished by: | Via: | Date Time | Remarks: | emarks: ס, ובכל | 3 | | | | | | | - |
| 2051 200 | | Poto Time | <u>চ</u> | | - | | | | | | | |
| Date: Time: Relinquished by. | A COLORD | Day Super | | | | | 1 | | | | | |
| If necessary, samples submitted to Hall Environmental may be supcontracted to of | ner accredited laboratori | es. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. | lidissod s | ty. Any | sub-cont | racted d | ata will i | e clear | ly notate | d on the analytic | cal report. | |

| Chain. | -of-C | Chain-of-Custody Record | Turn-Around Time: | Time: | | II. | | | | | | 0 | L | ENVIRONAENTAL | |
|------------------|------------------|--|-------------------------|----------------------|-----------------------------------|--------------------|-------------------------|----------------|----------|---------------------------|-------------------|----------|-----------------------|-----------------|---|
| Client: Tach UP | 35 | V | X Standard | □ Rush | | | | | | ALAL VEIN | | | OW C | LABORATORY | |
| | | | Project Name | 'n | | | 71 | W | w.ha | www.hallenvironmental.com | nmer | ntal.co | E | * | |
| Mailing Address: | | 408 W. TEXAS AUE | ARCTUR | 45 18 FED | 2H | 4 | 4901 Hawkins NE | wkins | 믣 | Albu | hend | ne, N | Albuquerque, NM 87109 | 60 | |
| | | | Project #: | | | | Tel. 505-345-3975 | 345 | 3975 | Fax | × 505 | 5-345 | 505-345-4107 | | |
| Phone #: 515- | 746 | 87168 | 700794, 303.0 | 303.01 | | | | | đ | Analysis Request | s Re | dnes | | | |
| email or Fax#: | | On the | Project Manager: | ger: | | | | | | POS | | (tnə | | | |
| QA/QC Package: | | | | | | | | SIMIS | | ' [†] Oc | | sdAV | 5. | | |
| X Standard | | ☐ Level 4 (Full Validation) | CHRIS 3 | | | | | | | 1,20 | | uəs | 301 | | _ |
| Accreditation: | | ☐ Az Compliance | Sampler: MICHREC | | COULER | | | - | | ON | (A | | da | | |
| □ NELAC | □ Other | | on Ice. | 0 | ON P | _ | | | | 'εC | 0/ | | 1H | | _ |
| □ EDD (Type). | | | # of Coolers: % | | 5. CL61:3.C | 7.1. | | | | | | | J | _ | |
| | | | Cooler Temp | emp(including CF). | 75-0- | | | | | | | | 76 | | |
| | | N Camp | Container Type and # | Preservative Tyne | HEAL No. | X STEX / 08:H9T | d 1808 | A) 803 PAHs | ARORA | Cl' E' |) 0928 9) 0728 |) lstoT | ToT | | |
| Date Time | Maurix | Sample Name | (Jacs 1 | ICE ICE D | -013 | | - | | | | _ | | 2 | | |
| A-11-20 | ~ | | | | 77.0 | | | - | | | | | | | |
| 9:30a | | 5-5 2 | | | ין | + | | + | + | \dagger | + | 1 | + | | |
| 9:35 | | 5-5 3' | | | , 015 | | | | 4 | 1 | + | _ | | 1 | |
| 9.40 | | s-5 4' | | | 910- | | | | 4 | | \dashv | | | | |
| 20 | | | | | 10' | | | | | | - | | | | |
| 29168 | | | | | -018 | | | | | | | | | | |
| 76 | | | | | - 019 | | | | | | | | | | |
| | | 1-0 | | | -020 | | | | | | - | | | | |
| 10.15 | | | | | -021 | | | | | | - | | | | |
| 10' 3.0 | | | | | -022 | | | 1 | | | | | | | |
| 10.35 | | | | | - 023 | | | | | | - | | | | |
| 2-19-20 115.35 | | | CARSS 1 | 126 000 | \sim | 2 | | | | | | | 2 | | |
| - | Relinquished by: | 0 | Receivedby | Vla: | <u>۽</u> | ď. | emarks: P.b., 2 or 4 | | | | | | | | |
| 2 | | 75% | | Vis. | Variation Time | | | | | | | | | | |
| Date: Time: | Relinquished by: | hee by: | 1 | Cerve. | James | - | | | | | | | | | |
| (Fractacean | V camples of | f necessary samples submitted to Hall Environmental may be subsout | contracted to other | accredited laborator | ies. This serves as notice of the | ilidissad si | y. Any su | b-contra | ted data | will be o | learly no | otated o | n the ana | lytical report. | |
| | | | 5 | CONTR | 2/22/20 09/08 | S | | | | | | | | | |

| | Chain | -of-C | usto | Chain-of-Custody Record | Turn-Around Time: | Time: | | | | I | | | | C | ENVIRONMENTAL | 4 | | |
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| Project Name | Client: Think | 250 | | | A Standard | | | | Desert | | | HU | | O | DRAT | 0 | | |
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| Tule - grt B | | | | | Project #: | | | - | el. 505 | -345- | 3975 | Fax | 505- | 45-4 | 107 | | | |
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| Az Compliance Sampler: | 区 Standard | | □ Le | evel 4 (Full Validation) | _ | ONES | | |)d 7 | | |)d ' | | //Jua | 590 | - | | |
| Other Containe #.of.Cooler Te | Accreditation: | DAZC | complian | | Sampler: M | 100 | LLIER | | 2808 | _ | | NO | (| 950. | il d | | _ | |
| #of:Cooler To Containe Matrix Sample Name Type and Soit S-8 3' Crtass Soit S-10 2' Cuts Soit S-10 2' Cuts Soit S-10 2' Cuts Soit S-10 2' Cuts Soit S-10 3' Received The Cooler To Containe Type and Soit S-10 3' Received Type and Soit S-10 3' Received Type Soit S-11 3' Cuts S-1 | □ NELAC | | er | | On Ice: | ☑-Yes | □ No | | 8/86 | | | 3, 1 | AC | 네) | ורם | | | |
| Seit. S-8 3' S-8 4' S-9 2' S-9 2' S-9 2' S-9 2' S-9 2' S-9 2' S-10 2' S-10 2' S-10 2' S-10 3' R S-11 3' Relinquished by: Reinfully Relinquished by: Reinfully Reinfully Received by: Relinquished by: Reinfully Received by: Reinfully Received by: Reinfully Reinfully Reinfully Received by: Received by: Reinfully Reinfully Reinfully Received by: Reinfully Reinfully Reinfully Reinfully Received by: Reinfully R | □ EDD (Type) | 1 | | | # of Coolers. | u) | 7 | | əbic | | | | | wie | CH | | | |
| Time Matrix Sample Name Containe 10:45a. | | | | | Cooler Temp | (including CF), 2, | 1 92- | | oitse | _ | | | | olifo | 7 | | | |
| 10.96a, Soit S-8 3' Grass Crass Cr | | | | | Container | Preservative | 5 | 1.00 | 91 P | | | | | ofal Co | A70 | | | |
| 10;45a, 501c 5-8 3' 61455 10;45a, 5-8 4' 6-1' 10:55a, 5-9 2' 11:05a, 5-9 2' 11:05a, 5-9 2' 11:35a, 5-10 3' R 11:35a, 5-10 3' R 11:55a, 5-10 3' R 12:04a, 5-10 3' R 13:04a, 5-10 3' R 14:05a, 5-10 3' R 15:04a, 5-10 3' R 16:05a, 5-10 3' R 17:05a, 5-10 3' R 18:05a, 5-10 3' | | Matrix | | | Type and # | Type | Z | _ | 08 | _ | | - | _ | Tc | 1 | 1 | 1 | |
| 10.50m S-8 4' 10.50m S-9 2' 11:05am S-9 2' 11:05am S-9 2' 11:35am S-10 2' 11:35am S-10 3' R 11:55am S- | | | 5-8 | | 62.455 1 | 146 10010 | -025 | 7 | | - | | | | 2 | | | | |
| 10.56 S-8 4' 10.56 S-9 0-1' 11:05 S-9 2' 11:156 S-10 0-1' 11:156 S-10 2' 11:56 S-10 3' R 11:56 S-11 3' R 11:56 S-11 3' R 12:09 S-11 3' Received 12:09 S-11 3' Received 13:09 S-11 3' Received 13:09 S-11 3' Received 13:09 S-11 3' Received 13:09 S-11 3' Received 14:00 MM M | 10:45 | | αα /\ | | | | -026 | | | - | | | | | | | | |
| 11:55a, 5-9 0-1' 11:05a, 5-9 2' 11:05a, 5-9 2' 11:35a, 5-10 2' 11:55a, 5-10 2' 11:55a, 5-10 3' R 11:55a, 5-11 3' 11:55a, 5-10 3' R | 10.50 | | \$ \$ | | | | | | | | | | | | | | | |
| 11:05a. S-9 2' 11:05a. S-9 2' 11:15a. S-10 0-1' 11:25a. S-10 3' R 11:55a. S-11 3' Received 12:09a. Sout S-11 3' Received 150 M. | 10.55 | | 2.9 | 0 | | | 820- | | | | | | | | | 7 | | |
| 11: 55a S.9 3'R 11: 15aa S-10 0-1 11: 55a S-10 2' S-10 3' R 11: 55a S-10 3' R S-10 3 | . Ca.I. | | 8.9 | 2 | | | 620- | | | | | | | | 1 | | | |
| 11:35a S-10 0-1 ¹ 11:35a S-10 3' R 11:55a S-10 3' R 11:55a S-11 3' CLASS 13:09a Sont S-11 3' CLASS Time: Relinquished by: Sa2 M. | 11: 05 | | 8.0 | | | | -036 | | | | | | | | | | | |
| 11:35a. S-10 2' S-10 3' R. S-10 3' R. S-10 3' R. S-11 0-1' S | 11:154 | | S-ID | | | | - 031 | | | 1 | | | | | | | | |
| 11:35a 5-10 3' R 11:55a 5-11 2-1 11:55a 5-11 3' 6-4855 12:09a, Sont 5-11 3' 6-4855 12:09a, Sont 5-11 3' 6-4855 17me: Relinfujshed by: Referright R | 11.30 | | 15-10 | | | | - 037 | | | | | - 1 | | | | | | |
| 11: 50a S-11 0-1 11: 55a S-11 3' 64955 12: 004 Son. S-11 3' 64955 1300 Secretary Suz Relinquished by: Reference of the second of the | 11: 254 | | 2-10 | 3 | | | - 0.33 | | | | | | | | | | | |
| 11: 554 S-11 3' G-4855 Time: Relinquished by: Sax M. P. Received | 111, 50 | | 11 -S | 1-0 | | | | | | _ | | | | | | | | |
| 12.094 Solid Sol | 11:55 | | 1-5 | | | | | | | | | | | | | | | |
| Time: Relinguished by: Time: Relinguished by: Received B | 1 0 | Sout | S | | 1 55475) | 100 1000 | 0 | 1 | | | | | | | | | | |
| Time: Relinguished by: | - | | shed by: | 1 | Received Phy: | Via: | - | Remark | S: | | | | | | | | | |
| Time: Relinfigured by: (9.0) | 79 | 7 | 10 | ell. | H | | 20/20 | 79. | 2054 | | | | | | | | | |
| I do Wh | | | shed by: | | 9 | Via: | 2 | | | | | | | | | | | |
| | _ | X | 2 | | | Coor Alle | 1018 81.00 | | | | | | | | | | | |
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| Chain-of-Custody Record | Turn-Around Time: | Time: | | | | 4 | | | 0 | | | | |
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| Client: Thurs UPE | X Standard | Rush | | | | | | M | | LABORATORY | OF | | |
| | Project Name | ď | | | | WWW | www.hallenvironmental.com | ironme | ental.c | ш | | | |
| Mailing Address: 408 w. TEXAS AUE | ARCTURUS | us 18 FED | 214 | 49 | 4901 Hawkins NE - | kins N | | ndner | dre, N | Albuquerque, NM 87109 | | | |
| | Project #: | | | Ţ | Tel. 505-345-3975 | 45-39 | 75 | Fax 5 | 505-345-4107 | 4107 | | | |
| Phone #: 515-746-8768 | 700744, 303.61 | 303.61 | | | l. | | Anal | Analysis Request | senbe | | | | |
| -ax#. | Project Manager: | iger. | | | | | *OS | | (tne | | | | |
| QA/QC Package: | | | | _ | s,gc | SMI | , ₁ | - | esq∀ | | ٠, | | |
| ▼ Standard □ Level 4 (Full Validation) | CHRIS | JONES | | | _ | | d " | | /tue | 590 | : | | |
| Accreditation: | Sampler: M | MICHAEL COLLIER | LER | | | | NOS | | | าเล | | _ | |
| | On Ice. | □-Yes □ | .□ No | | | | | | | الدو | - | , | |
| □ EDD (Type) | # of Coolers: 2 | 1 | (a): 5.L | | | | | (| | いっ | | | |
| | Cooler Temp(indusing cF): | 1 | 32-0-2 | | | | _ | AO | | 7 | _ | | |
| | | - | 1-0-0-10 | | | - | | (\ | | W. | | | |
| Date Time Matrix Sample Name | Container Type and # | Preservative Type | 700 29 (S | STE: HqT | EDB 8081 | НАЧ | RCR Cl, F | 928 | S270 Fota | . о т | | | |
| 11:05. | GUASS 1 | ICE COEL | -037 | ン | | | | | | 2 | | | |
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| 1.05pm S-12 2 | | | -0.54 | | | 1 | + | | + | | | | |
| 1:100= S-12 31 | | | 0/10- | | 1 | | + | | | | | 1 | |
| S- 12 4" | | | 140- | | | | | | | | | | |
| 5000 | 1 504) | 196 10001 | -042 | 7 | | | | | | > | | | |
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| Date: Time: Relinquished by: | Received | Via: | Date | Remarks. | marks: | | | | | | | | |
| 1500 | MA | 2 | 30/20 | 5 | ò | | | | | | | | |
| Date: Time: Reinquisted by: | Received by: | Via: | 2 2 2 2 20 C CO | | | | | | | | | | |
| - 1 | | mer accredited laboratories. | This serves as notice of thi | s possibility. | Any sub-c | ontracted | data will t | e clearly | notated o | n the analytica | I report. | | |
| if necessary, samples submitted to have civilonitened in | | COUNTY | 2/24 10 1005 | • | | | | | | | | | |
| | > | | | | | | | | | | | | |



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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: Reported: 03/23/2020

03/24/2020

Project Name: Project Number: ARCTURUS 18 FED 2H 700794.303.01

Project Location:

Sampling Date:

03/20/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Kelly Jacobson

DEVON - EDDY CO NM

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

| TPH 8015M | mg/l | kg | Analyze | d By: MS | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 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 | 87.69 | 6 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 77.69 | 6 42.2-15 | 6 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ensing, 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 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.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

ND



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

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleints exclusive remedy for any dam 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 whistoever 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 subclaidance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 approved of Cardinal laboratories.

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | FAX (575) 393- | 2476 | | | - | | | 15 | | | Corners of | | | - | | | | 5 5 5 5 | | - | | es ces esse | | | |
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| Project Name: | Arcturus | 18 Fed | 24 | | | | , | / | Sta | | | Zi | p: | | H | 1 | | | | 1 | 1. | 1 | | | | |
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| LEASE NOTE: Linbling | nd Damages, Cardinal's liab | illy and offent's exclusive remed | ly for any | claim a | rising wi | ather ba | sed in c | contract | ortail | shall | a limite | ed to the | e amount pak | t by the client for | the | | | | 1 | -la- | J | | James 1 | | | |
| nalyses. All claims includ ervice. In no ovent shall 0 | ing those for negligence and cardinal be liable for incidents | any other cause whatsoever sh it or consequental damages, in riormance of services hereund | all be de | emed wa Whout So | zived un nitation, | less mad business | e în vyd înterru | ling and plions, i | receives | use, or | Jardina Joss of | within profils | : 30 days after Incorred by o | r completion of th lient, is subsidier | e applicable fizs, | | | | | | | | | | | |
| Misles of successors aris Relinquished B | ing out of or related to the pe | riormance of services hereund | er by Can | Rece | eardless eivad | By: | er such | olalm I | g bytse | dArpon | shy of | the abo | ove stated ran | Phone Kes | SUIT: | Yes | | | | Phone | | | | | | |
| 40 - | 011- | 3-85 | 2 | | | | | 14 | 1 | | | | 900 | Fax Result | | I Yes | | No- | Addi | Fax# | | - | | - | - | ****** |
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| | | erbal changes. Plo | - | ax w | - | | Traffic Contract | SOLD STREET, SQUARE, | - A THE OWNER OF THE OWNER OWNER OF THE OWNER O |) 393 | 23 | 26 | . 1 | | 4 | | Park and areas do | TO SECURE AND ADDRESS OF THE PARTY OF THE PA | - | -1 | | | | · ,- +/- | | _ |