



Remediation and Closure Report

Eagle 33/34 Federal Battery Talon Project # 701307.130.01

Prepared For:

Lime Rock Resources 1111 Bagby St. Suite 4600 Houston, TX 77002

Prepared By:

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

February 7, 2020

Mr. Jim Amos **BLM Carlsbad Field Office**620 East Greene Street
Carlsbad, NM 88220

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

Subject:

Remediation and Closure Report

Eagle 33/34 Federal Battery

Eddy County, NM

Dear Mr. Amos & Mr. Bratcher,

Lime Rock Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our remediation and closure request are contained herein. The incident descriptions, soil sampling results, remedial actions, and closure requests are presented herein.

Site Information

Eagle 33/34 Federal Battery is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 34, Township 17 South and Range 27 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.76956663 North and -104.2748572 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum lands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Guadalupian in age and is comprised of weathered gypsum. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the average reported depth to groundwater is 50-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is 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 50 Feet/BGS
∐Yes ⊠No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
□Yes ⊠No	Within 1000 feet of any freshwater well or spring
∐Yes ⊠No	Within incorporated municipal boundaries or within a defined Municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
□Yes ⊠No	Within 300 feet of a wetland
□Yes ⊠No	Within the area overlying a subsurface mine
⊠Yes □No	Within an unstable area, yes, a high Karst area
□Yes ⊠No	Within a 100-year floodplain

Therefore the clean up criteria is as follows:

	Table I Closure Criteria for Soils Impacted by a Release					
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I TDS	Constituent	Method*	Limit**			
50 feet	Total Chlorides***	EPA 300.0 or SM4500 CI B	600 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg			
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			

Incident Description

On January 8, 2020, Lact Services was working at the Eagle 33/34 Federal Battery to do scheduled maintenance on the lact unit. Human error from Lact Services technician resulted in a 260 bbl loss of oil from the lact unit. All fluids were contained within the bermed battery containment. Lime Rock immediately placed an emergency one-call and dispatched vac trucks and roustabout crews to begin initial cleanup measures. A site map is presented in Appendix I.

Talon mobilized personnel to the site to supervise the contract companies dispatched by Lime Rock. The impacted area was excavated utilizing hand tools by roustabout crews and hydro-excavators. Because of the tanks and infrastructure, no mechanical excavation equipment was able to be utilized. Hard rock refusal was encountered and hydro-excavators were subsequently used to clean the top of the rock.

A skid steer mounted Geoprobe was mobilized to delineate the vertical extent of the impacted area. The results of our subsurface investigation are summarized in the following data table and the complete lab report is attached in Appendix V.

Soil Sampling

1-22-20 Boring Laboratory Results

1-22-20 Boiling Laboratory Results									
Sample ID	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 Closure Criteria 19.15.29 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
		0-1'	220	48	5100	14000	5100	19148	150
B-1	1/22/2020	2-3'	210	32	5100	11000	3400	19500	
		4'	ND	ND	ND	56	ND	56	
		0-1'	280	64	6100	13000	4700	23800	
B-2	1/22/2020	2-3'	5.5	0.17	210	1100	430	1740	
		4'			ND	11	ND	11	
B-3 1/22/20	1/22/2020	0-1'	77	35	1900	1500	470	3870	350
D-3	1/22/2020	2-3'	ND	0.11	ND	ND	ND	ND	
		0-1'	200	59	5100	16000	5800	26900	99
B-4	1/22/2020	2-3'	ND	0.25	ND	51	100	151	
		4'			ND	ND	ND	ND	
D.F	1/22/2020	0-1'	0.18	0.02	4	270	440	714	2000
B-5	1/22/2020	2			ND	ND	ND	ND	140
B-6	1/22/2020	0-1'	ND	ND	ND	98	170	268	2300
B-0	1/22/2020	2-3'			ND	ND	ND	ND	120

ND- Analyte Not Detected -- Analyte Not Tested

Remedial Actions:

- The impacted areas inside the tank battery area were excavated by hand and hydro-excavation to a depth of 1.5-feet BGS, where hard rock refusal was encountered.
- The impacted area was vertically delineated.
- All contaminated soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- A Final C-141 is attached in Appendix III.

Received by OCD: 2/18/2020 8:09:53 AM

Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this time, and that a deferral until facility closure with regard to this incident be granted. Backfilling efforts will begin as soon as permission is 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

Project Manager

David J. Adkins

District Manager

Attachments:

Appendix I Site Map, Karst Map, TOPO Map & Locator Map

Appendix II Soil Survey, Groundwater Data & FEMA Flood Zone

Appendix III Initial & Final C-141's

Appendix IV Photographic Documentation

Appendix V Laboratory Results



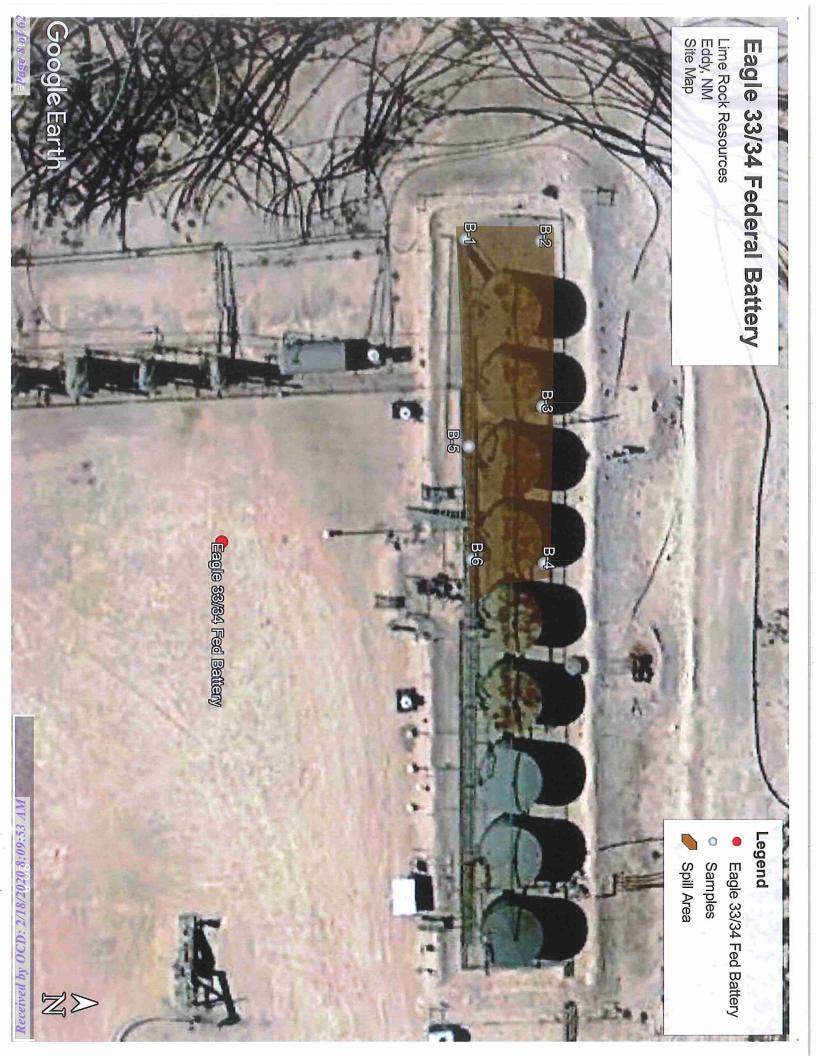
APPENDIX I

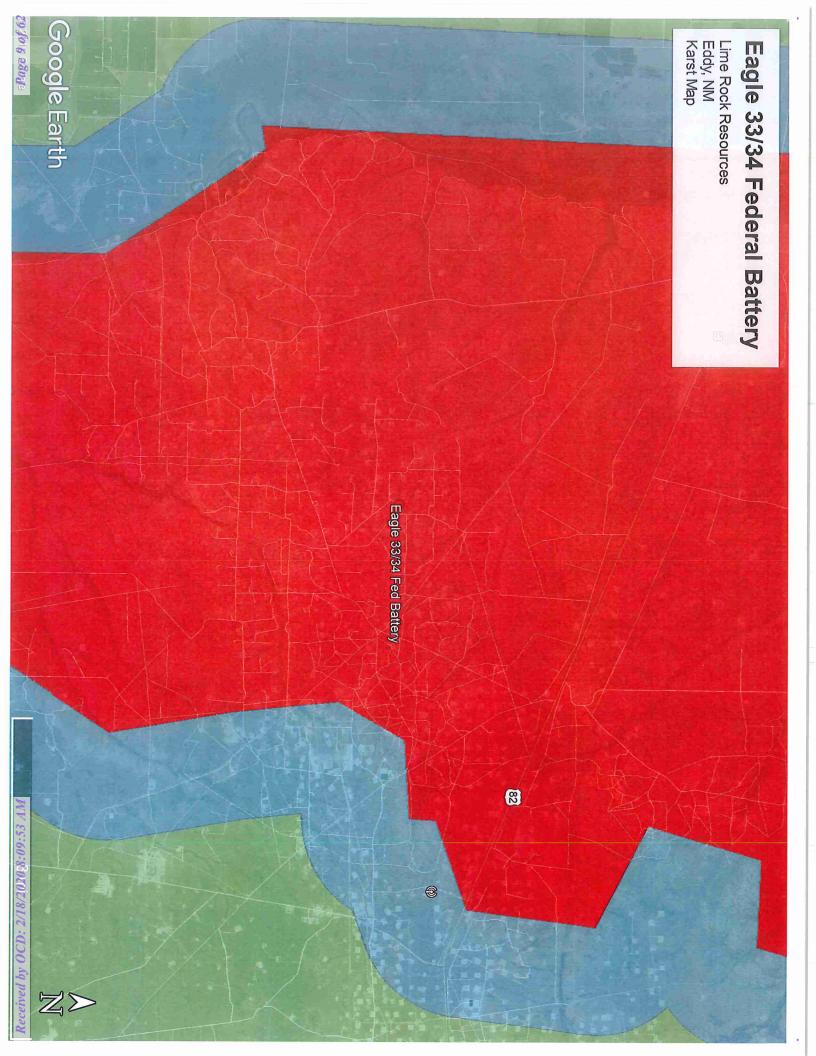
SITE MAP

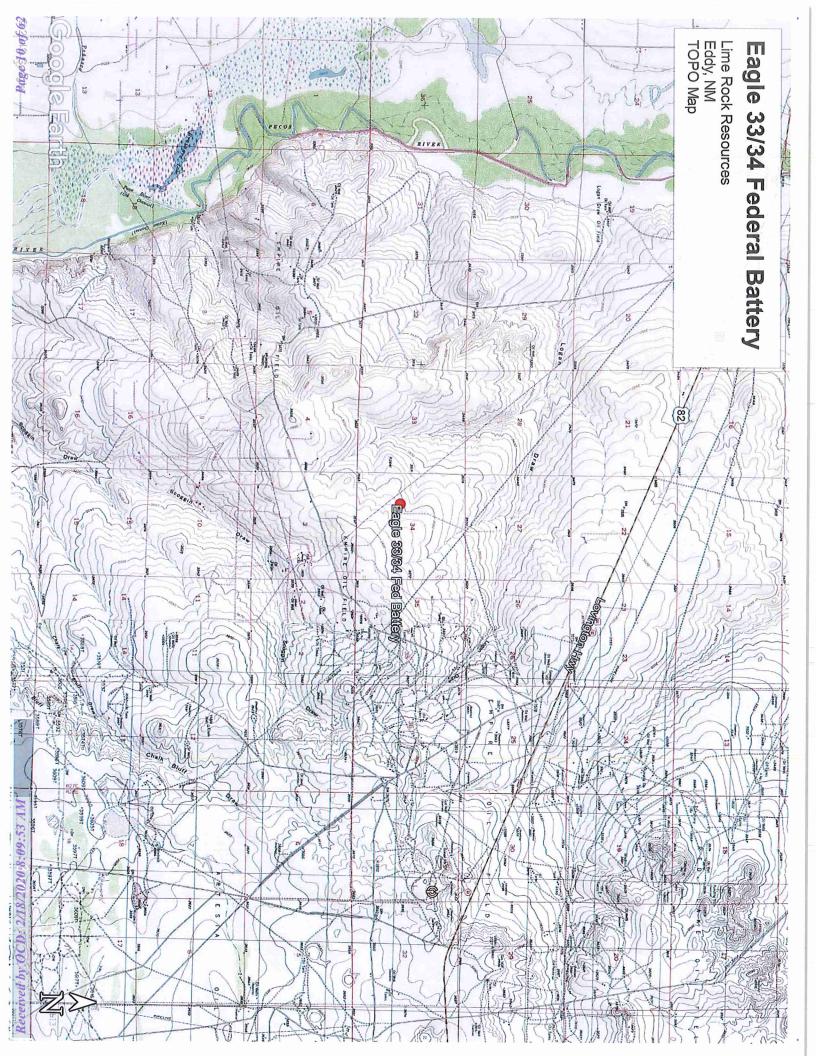
KARST MAP

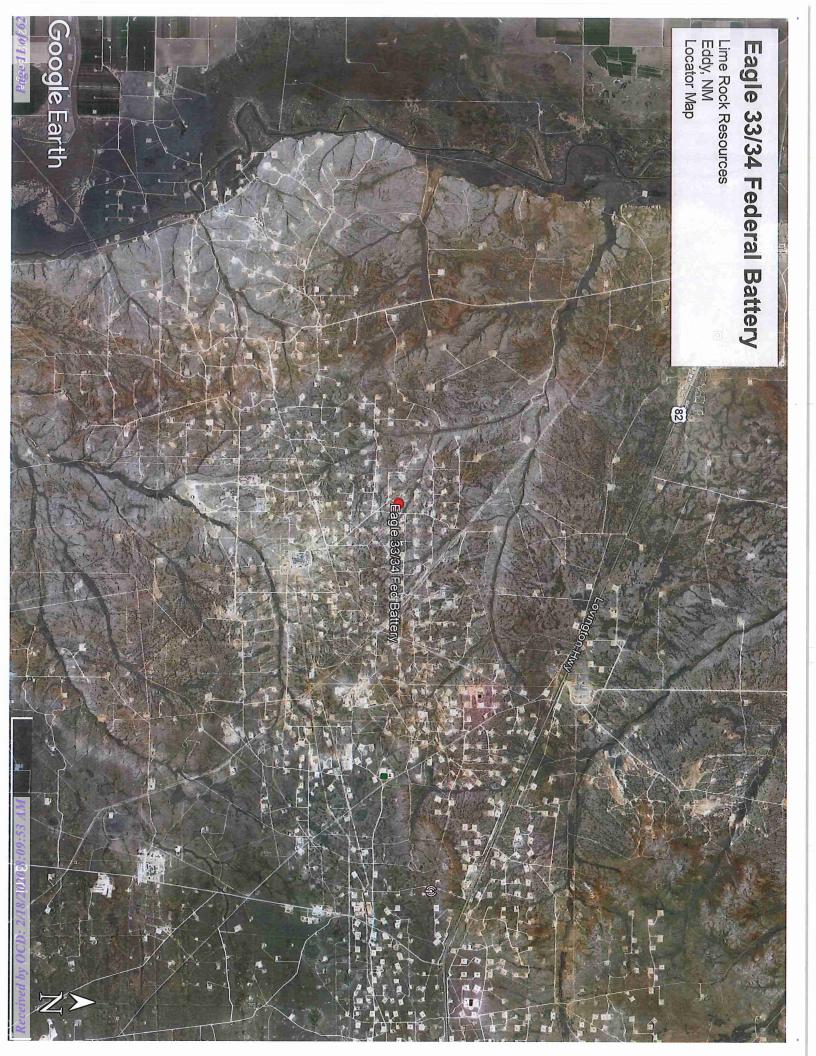
TOPO MAP

LOCATOR MAP













<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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

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

(R=POD has been replaced,

O=orphaned, C=the file is

closed)

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

(quarters are smallest to

largest)

(NAD83 UTM in meters)

(In feet)

POD Number

POD Sub-Code basin County 6416 4 Sec Tws Rng

X 568468 3630529 DistanceDepthWellDepthWaterColumn 2370

130

RA 01493 RA 03917 RA RA

2 1 27 17S 27E 4 1 2 10 18S 27E

QQQ

569019 3625660*

2577

Average Depth to Water:

50 feet

Water

80

Minimum Depth:

50 feet

Maximum Depth:

50 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 568390.599

Northing (Y): 3628160.152

Radius: 3000

*UTM location was derived from PLSS - see Help

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

1/23/20 12:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reeves

Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Gypsum, maximum in profile: 80 percent

Salinity, maximum in profile: Very slightly saline to moderately

saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Largo

Percent of map unit: 5 percent

Ecological site: Loamy (R042XC007NM)

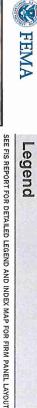
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette





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



Chance Flood Hazard Zone X Future Conditions 1% Annual Area with Reduced Flood Risk due to areas of less than one square mile Zone depth less than one foot or with drainag



FLOOD HAZARD

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



NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

Area of Undetermined Flood Hazard Zon

OTHER AREAS

GENERAL ---Channel, Culvert, or Storm Sewer

STRUCTURES | 1111111 Levee, Dike, or Floodwall

Limit of Study Base Flood Elevation Line (BFE) Coastal Transect Jurisdiction Boundary

Water Surface Elevation

Cross Sections with 1% Annual Chance



Coastal Transect Baseline

Digital Data Available

No Digital Data Available



MAP PANELS

Unmapped

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

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

reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or authoritative NFHL web services provided by FEMA. This map become superseded by new data over time. was exported on 1/23/2020 at 2:03:41 PM and does not The flood hazard information is derived directly from the

Received by OCD: 2/18/2020 8:898656 AdMinBay FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for legend, scale bar, map creation date, community identifiers, elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map

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500

1,000

1,500

2,000





APPENDIX III

INITIAL C-141 & FINAL C-141

Received by OCD: 2/18/2020 8:09:53 AM

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	NRM2004941164
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Lime Rock Resources	OGRID 277558
Contact Name Michael Barrett	Contact Telephone 575-365-9724
Contact email mbarrett@limerockresources.com	Incident # (assigned by OCD)
Contact mailing address 1111 Bagby St Ste 4600 Houston, TX 77002	

Location of Release Source

Latitude

32.76956663

Longitude -104.2748572

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Eagle 33/34 Federal Battery	Site Type Production Facility
Date Release Discovered 1-8-20	API#

Unit Letter	Section	Township	Range	County
K	34	17S	27E	Eddy

Nature and Volume of Release

Crude Oil	(s) Released (Select all that apply and attach calculations or specific Volume Released 260 bbl	Volume Recovered 150 bbl
☐ Produced Water	Volume Released	Volume Recovered
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Course of Dolones, I ast C	amilian want aut to Line Deals Decourse Frula 22/24	Padanal Dattamata da madutanana anuthada st

Cause of Release: Lact Services went out to Lime Rock Resources Eagle 33/34 Federal Battery to do maintenance on the lact unit. Error from Lact's technician resulted in a 260 bbl loss of oil out of the lact unit. All fluids were contained within the berm of the battery. Vac trucks were initially dispatched as well as an emergency 1-call placed to begin initial cleanup measures. A total recovered volume of oil was 150 bbls.

Received by OCD: 2/18/2020 8:09:53 AM

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2004941164
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsi	ble party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?	Volume exceeded 25 bbls				
Nya ONa					
⊠ Yes □ No					
		n? When and by what means (phone, email, etc)? rt Hamlet-NMOCD, Jim Amos-BLM on 10-2-19 via email.			
	Initial Res	ponse			
The responsible	party must undertake the following actions immediately u	nless they could create a safety hazard that would result in injury			
The source of the rele	ease has been stopped.				
	as been secured to protect human health and the	e environment.			
Released materials ha	ave been contained via the use of berms or dik	es, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed and n	nanaged appropriately.			
If all the actions described	d above have <u>not</u> been undertaken, explain wh	y:			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
I hereby certify that the info	rmation given above is true and complete to the bes	st 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: Mike Barrett Title: Production Superintendent					
Signature: Mike	180	Date: 2-6-20			
email: mbarrett@limerock	kresources.com	Telephone: 575-365-9724			
OCD Only					
Received by: Ramona	a Marcus	Date: 2/18/2020			
Received by:RainOne	1 1/101000	700 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Form C-141 Page 3

State of New Mexico Oil Conservation Division

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

Incident ID	NRM2004941164
District RP	
Facility ID	
Application ID	

50__ (ft bgs)

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 verticontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
	Characterization Report Checklist: Each of the following items must be included in the report.	
	 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data 	S.
1	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 	
	☐ Topographic/Actial 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.

State of New Mexico Oil Conservation Division

Incident ID	NRM2004941164
District RP	
Facility ID	
Application ID	

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

Printed Name: Mike Barrett

Signature:

Title: Production Superintendent

Date:

3 - 6 - 20

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus

Date: 2/18/2020

State of New Mexico Oil Conservation Division

Incident ID	NRM2004941164
District RP	
Facility ID	
Application ID	

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: Mike Barrett Title: Production Superintendent								
Signature: MMS Date: 2-6-20								
email: mbarrett@limerockresources.com Telephone: 575-365-9724								
OCD Only								
Received by: Ramona Marcus Date: 02/18/2020								
Approved								
Signature: Date:								

State of New Mexico Oil Conservation Division

Incident ID	NRM2004941164
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.								
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC								
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)								
□ Description of remediation activities									
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renderent human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially and that existed prior to the release or their final land use in								
OCD Only									
Received by: Ramona Marcus	Date: 02/18/2020								
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface voarty of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.								
Closure Approved by:	Date:								
Printed Name:	Title:								

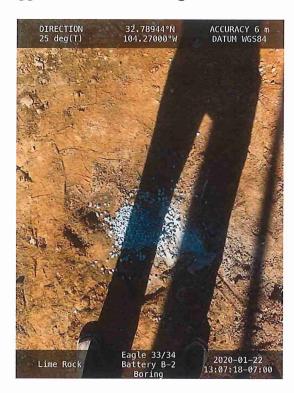


APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

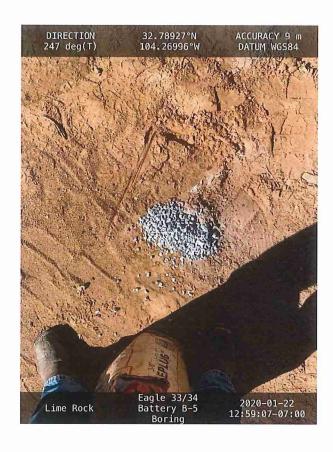
Eagle 33/34 Federal Battery Geotagged Photos of Boring Event

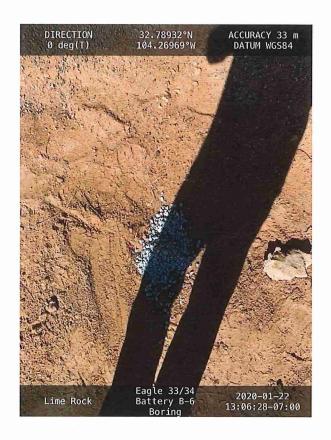














APPENDIX V

LABORATORY DATA



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

January 31, 2020

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

RE: Eagle 33 34 Battery

OrderNo.: 2001967

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 47 sample(s) on 1/24/2020 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 0-1'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 11:30:00 AM

Lab ID: 2001967-001

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	150	60		mg/Kg	20	1/27/2020 10:56:41 PM	50074
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	JMR
Gasoline Range Organics (GRO)	5100	200		mg/Kg	50	1/27/2020 3:39:41 PM	G66104
Surr: BFB	96.2	70-130		%Rec	50	1/27/2020 3:39:41 PM	G66104
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	BRM
Diesel Range Organics (DRO)	14000	410		mg/Kg	50	1/28/2020 8:21:09 AM	50065
Motor Oil Range Organics (MRO)	5100	2100		mg/Kg	50	1/28/2020 8:21:09 AM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 8:21:09 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	JMR
Benzene	48	1.0		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Toluene	230	4.1		mg/Kg	100	1/28/2020 3:36:27 PM	R66149
Ethylbenzene	140	2.0		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Xylenes, Total	220	4.1		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: 4-Bromofluorobenzene	75.3	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: Dibromofluoromethane	96.0	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: Toluene-d8	97.8	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 2-3'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 11:30:00 AM

Lab ID: 2001967-002

Matrix: SOIL Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	JMR
Gasoline Range Organics (GRO)	5100	89		mg/Kg	20	1/28/2020 4:05:03 PM	G66149
Surr: BFB	92.7	70-130		%Rec	20	1/28/2020 4:05:03 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	VICS					Analyst:	BRM
Diesel Range Organics (DRO)	11000	480		mg/Kg	50	1/28/2020 8:30:15 AM	50065
Motor Oil Range Organics (MRO)	3400	2400		mg/Kg	50	1/28/2020 8:30:15 AM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 8:30:15 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	JMR
Benzene	32	0.45		mg/Kg	20	1/28/2020 4:05:03 PM	R66149
Toluene	210	8.9		mg/Kg	200	1/29/2020 11:35:58 PM	S66161
Ethylbenzene	140	8.9		mg/Kg	200	1/29/2020 11:35:58 PM	S66161
Xylenes, Total	210	1.8		mg/Kg	20	1/28/2020 4:05:03 PM	R66149
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: 4-Bromofluorobenzene	56.7	70-130	S	%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: Dibromofluoromethane	93.2	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: Toluene-d8	96.4	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Eagle 33 34 Battery

Lab ID: 2001967-003

Client Sample ID: B-1 4'

Collection Date: 1/22/2020 11:30:00 AM

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	: JMR
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	1/28/2020 5:02:17 PM	G66149
Surr: BFB	97.0	70-130	%Rec	1	1/28/2020 5:02:17 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	CLP
Diesel Range Organics (DRO)	56	9.4	mg/Kg	1	1/28/2020 12:28:39 PM	50065
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/28/2020 12:28:39 PM	50065
Surr: DNOP	97.2	55.1-146	%Rec	1	1/28/2020 12:28:39 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST	•				Analyst	: JMR
Benzene	ND	0.020	mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Toluene	ND	0.040	mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Ethylbenzene	ND	0.040	mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Xylenes, Total	ND	0.080	mg/Kg	1	1/28/2020 5:02:17 PM	R66149

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 2001967

Date Reported: 1/31/2020

CLIENT: Talon Artesia Client Sample ID: B-2 0-1'

Eagle 33 34 Battery Project: Collection Date: 1/22/2020 12:00:00 PM Lab ID: 2001967-011 Matrix: SOIL Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	1/28/2020 1:25:34 AM	50074
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	6100	420		mg/Kg	100	1/28/2020 5:59:21 PM	G66149
Surr: BFB	91.7	70-130		%Rec	100	1/28/2020 5:59:21 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS					Analyst	BRM
Diesel Range Organics (DRO)	13000	460		mg/Kg	50	1/28/2020 2:38:24 PM	50065
Motor Oil Range Organics (MRO)	4700	2300		mg/Kg	50	1/28/2020 2:38:24 PM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 2:38:24 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	64	2.1		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Toluene	300	4.2		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Ethylbenzene	180	4.2		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Xylenes, Total	280	8.4		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: Dibromofluoromethane	95.0	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: Toluene-d8	94.4	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149

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
- % 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

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Analytical Report

Lab Order 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-2 2-3'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 12:00:00 PM

Lab ID: 2001967-012

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	210	20		mg/Kg	5	1/28/2020 6:27:53 PM	G66149
Surr: BFB	88.2	70-130		%Rec	5	1/28/2020 6:27:53 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	1100	48		mg/Kg	5	1/29/2020 10:08:34 AM	50065
Motor Oil Range Organics (MRO)	430	240		mg/Kg	5	1/29/2020 10:08:34 AM	50065
Surr: DNOP	135	55.1-146		%Rec	5	1/29/2020 10:08:34 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	0.17	0.099		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Toluene	2.2	0.20		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Ethylbenzene	3.0	0.20		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Xylenes, Total	5.5	0.40		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: 4-Bromofluorobenzene	63.5	70-130	S	%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: Dibromofluoromethane	96.9	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: Toluene-d8	92.9	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Eagle 33 34 Battery

Lab ID: 2001967-013

Client Sample ID: B-2 4'

Collection Date: 1/22/2020 12:00:00 PM

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/27/2020 10:18:33 PM	G66104
Surr: BFB	98.0	70-130	%Rec	1	1/27/2020 10:18:33 PM	G66104
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	11	9.3	mg/Kg	1	1/28/2020 2:56:28 PM	50065
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/28/2020 2:56:28 PM	50065
Surr: DNOP	87.1	55.1-146	%Rec	1	1/28/2020 2:56:28 PM	50065

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-3 0-1'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 12:25:00 PM

Lab ID: 2001967-021

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	350	59		mg/Kg	20	1/28/2020 4:16:06 PM	50094
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	1900	160		mg/Kg	50	1/28/2020 6:56:12 PM	G66149
Surr: BFB	90.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	1500	90		mg/Kg	10	1/28/2020 3:51:34 PM	50065
Motor Oil Range Organics (MRO)	470	450		mg/Kg	10	1/28/2020 3:51:34 PM	50065
Surr: DNOP	0	55.1-146	S	%Rec	10	1/28/2020 3:51:34 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: JMR
Benzene	35	0.79		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Toluene	110	1.6		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Ethylbenzene	52	1.6		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Xylenes, Total	77	3.1		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: Dibromofluoromethane	94.0	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: Toluene-d8	93.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-3 2-3'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 12:25:00 PM

Lab ID: 2001967-022

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/28/2020 4:00:47 PM	50065
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/28/2020 4:00:47 PM	50065
Surr: DNOP	85.0	55.1-146	%Rec	1	1/28/2020 4:00:47 PM	50065
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	1/27/2020 4:48:42 PM	G66097
Surr: BFB	86.2	66.6-105	%Rec	5	1/27/2020 4:48:42 PM	G66097
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.11	0.086	mg/Kg	5	1/30/2020 9:35:32 AM	50149
Toluene	ND	0.17	mg/Kg	5	1/30/2020 9:35:32 AM	50149
Ethylbenzene	ND	0.17	mg/Kg	5	1/30/2020 9:35:32 AM	50149
Xylenes, Total	ND	0.34	mg/Kg	5	1/30/2020 9:35:32 AM	50149
Surr: 4-Bromofluorobenzene	90.4	80-120	%Rec	5	1/30/2020 9:35:32 AM	50149

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

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-4 0-1'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 12:55:00 PM

Lab ID: 2001967-041

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	99	60		mg/Kg	20	1/29/2020 11:08:52 AM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	JMR
Gasoline Range Organics (GRO)	5100	520		mg/Kg	100	1/28/2020 7:53:11 PM	G66149
Surr: BFB	91.8	70-130		%Rec	100	1/28/2020 7:53:11 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	16000	990		mg/Kg	100	1/28/2020 6:18:42 PM	50066
Motor Oil Range Organics (MRO)	5800	4900		mg/Kg	100	1/28/2020 6:18:42 PM	50066
Surr: DNOP	0	55.1-146	S	%Rec	100	1/28/2020 6:18:42 PM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	JMR
Benzene	59	2.6		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Toluene	230	5.2		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Ethylbenzene	130	5.2		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Xylenes, Total	200	10		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: Dibromofluoromethane	99.9	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: Toluene-d8	97.3	70-130		%Rec	100) 1/28/2020 7:53:11 PM	R66149

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-4 2-3'

Project: Eagle 33 34 Battery Collection Date: 1/22/2020 12:55:00 PM

Lab ID: 2001967-042 Matrix: SOIL Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst:	BRM
Diesel Range Organics (DRO)	51	8.8	mg/Kg	1	1/29/2020 10:45:11 AM	50066
Motor Oil Range Organics (MRO)	100	44	mg/Kg	1	1/29/2020 10:45:11 AM	50066
Surr: DNOP	96.0	55.1-146	%Rec	1	1/29/2020 10:45:11 AM	50066
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	1/27/2020 9:30:14 PM	G66097
Surr: BFB	89.3	66.6-105	%Rec	5	1/27/2020 9:30:14 PM	G66097
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.25	0.087	mg/Kg	5	1/30/2020 9:58:57 AM	50149
Toluene	0.18	0.17	mg/Kg	5	1/30/2020 9:58:57 AM	50149
Ethylbenzene	ND	0.17	mg/Kg	5	1/30/2020 9:58:57 AM	50149
Xylenes, Total	ND	0.35	mg/Kg	5	1/30/2020 9:58:57 AM	50149
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	5	1/30/2020 9:58:57 AM	50149

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 2001967

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/31/2020

CLIENT: Talon Artesia

Lab ID:

Project:

2001967-043

Eagle 33 34 Battery

Matrix: SOIL

Client Sample ID: B-4 4'

Collection Date: 1/22/2020 12:55:00 PM

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/28/2020 6:36:51 PM	50066
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/28/2020 6:36:51 PM	50066
Surr: DNOP	98.2	55.1-146	%Rec	1	1/28/2020 6:36:51 PM	50066
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	16	mg/Kg	5	1/27/2020 9:53:40 PM	G66097
Surr: BFB	83.8	66.6-105	%Rec	5	1/27/2020 9:53:40 PM	G66097

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

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

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit

Analytical Report

Lab Order 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Eagle 33 34 Battery

Lab ID: 2001967-025

Project:

Matrix: SOIL

Client Sample ID: B-5 0-1'

Collection Date: 1/22/2020 1:15:00 PM

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	2000	60		mg/Kg	20	1/28/2020 4:08:42 PM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	4.0	3.8		mg/Kg	1	1/28/2020 7:24:41 PM	G66149
Surr: BFB	93.7	70-130		%Rec	1	1/28/2020 7:24:41 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	270	85		mg/Kg	10	1/28/2020 5:14:44 PM	50066
Motor Oil Range Organics (MRO)	440	430		mg/Kg	10	1/28/2020 5:14:44 PM	50066
Surr: DNOP	0	55.1-146	S	%Rec	10	1/28/2020 5:14:44 PM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST	Ī					Analyst	JMR
Benzene	0.020	0.019		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Toluene	0.14	0.038		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Ethylbenzene	0.11	0.038		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Xylenes, Total	0.18	0.076		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: Dibromofluoromethane	91.3	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: Toluene-d8	96.8	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149

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 2001967

Date Reported: 1/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-5 2'

Project: Eagle 33 34 Battery

Collection Date: 1/22/2020 1:15:00 PM

Lab ID: 2001967-026

Matrix: SOIL

Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	140	60		mg/Kg	20	1/28/2020 4:21:06 PM	50096
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/28/2020 5:23:57 PM	50066
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2020 5:23:57 PM	50066
Surr: DNOP	91.6	55.1-146		%Rec	1	1/28/2020 5:23:57 PM	50066
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	1/27/2020 6:22:36 PM	G66097
Surr BEB	87.6	66.6-105		%Rec	5	1/27/2020 6:22:36 PM	G66097

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.

CLIENT: Talon Artesia

Project: Eagle 33 34 Battery

Lab ID: 2001967-031

tesia Client Sample ID: B-6 0-1'

Matrix: SOIL

Collection Date: 1/22/2020 1:35:00 PM Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	2300	150	mg/Kg	50	1/29/2020 10:44:04 AM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	1/28/2020 4:27:08 AM	G66104
Surr: BFB	93.5	70-130	%Rec	1	1/28/2020 4:27:08 AM	G66104
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	BRM
Diesel Range Organics (DRO)	98	19	mg/Kg	2	1/29/2020 10:36:03 AM	50066
Motor Oil Range Organics (MRO)	170	97	mg/Kg	2	1/29/2020 10:36:03 AM	50066
Surr: DNOP	92.9	55.1-146	%Rec	2	1/29/2020 10:36:03 AM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	JMR
Benzene	ND	0.021	mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Toluene	ND	0.041	mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Ethylbenzene	ND	0.041	mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Xylenes, Total	ND	0.083	mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: Dibromofluoromethane	94.5	70-130	%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: Toluene-d8	92.9	70-130	%Rec	1	1/28/2020 4:27:08 AM	R66104

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 2001967

Date Reported: 2/12/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Eagle 33 34 Battery

Project: Lab ID:

2001967-032

Client Sample ID: B-6 2-3'

Collection Date: 1/22/2020 1:35:00 PM Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	120	60		mg/Kg	20	1/27/2020 2:40:01 PM	50057
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/27/2020 9:46:29 PM	50047
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2020 9:46:29 PM	50047
Surr: DNOP	87.8	55.1-146		%Rec	1	1/27/2020 9:46:29 PM	50047
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2020 3:10:02 AM	50043
Surr: BFB	79.4	66.6-105		%Rec	1	1/27/2020 3:10:02 AM	50043

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
- 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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NRM2004941164 **QC SUMMARY REPORT**

Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: MB-50057

Prep Date: 1/27/2020

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 50057 Analysis Date: 1/27/2020

PQL

RunNo: 66103

SeqNo: 2270255

Units: mg/Kg

RPDLimit

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Chloride

ND

SampType: Ics

PQL

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID: LCS-50057

Batch ID: 50057

RunNo: 66103

Units: mg/Kg

Prep Date: 1/27/2020

Analysis Date: 1/27/2020

SeqNo: 2270256

Analyte Chloride

Result

1.5

SPK value SPK Ref Val %REC

LowLimit 90

%RPD **RPDLimit** Qual

15.00

HighLimit

14

92.3

110

Sample ID: MB-50074 Client ID: PBS

Prep Date: 1/27/2020

Sample ID: LCS-50074

SampType: mblk Batch ID: 50074

TestCode: EPA Method 300.0: Anions

RunNo: 66105

LowLimit

Units: mg/Kg

%RPD

%RPD

Analyte

Result

Analysis Date: 1/27/2020 PQL

1.5

SeqNo: 2270651

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

Chloride

SampType: Ics

ND

Result

Result

ND

14

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 50074

RunNo: 66105

SPK value SPK Ref Val %REC LowLimit

Prep Date:

1/27/2020

Analyte

Analysis Date: 1/27/2020 **PQL**

1.5

SeqNo: 2270652 %REC

Units: mg/Kg HighLimit

110

RPDLimit

Qual

Chloride

Sample ID: MB-50096

SampType: mblk

TestCode: EPA Method 300.0: Anions

93.0

Client ID: PBS Prep Date: 1/28/2020

Batch ID: 50096

Analysis Date: 1/28/2020

15.00

RunNo: 66124 SeqNo: 2271901

Units: mg/Kg

HighLimit

RPDLimit

RPDLimit

Qual

Qual

Analyte Chloride

TestCode: EPA Method 300.0: Anions

Sample ID: LCS-50096 Client ID: LCSS

SampType: Ics

PQL

1.5

PQL

1.5

RunNo: 66124

Prep Date: 1/28/2020

Batch ID: 50096 Analysis Date: 1/28/2020

SeqNo: 2271902

Units: mg/Kg

Analyte Chloride

SPK value SPK Ref Val 15.00

SPK value SPK Ref Val

%REC

93.9

LowLimit

90

HighLimit %RPD

110

Qualifiers:

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit Practical Quanitative Limit

Value exceeds Maximum Contaminant Level.

H Holding times for preparation or analysis exceeded

% 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

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Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Result

Result

14

ND

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: MB-50094

Sample ID: LCS-50094

Prep Date: 1/28/2020

Client ID: LCSS

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Prep Date:

Batch ID: 50094

RunNo: 66125

Units: mg/Kg

Analyte

1/28/2020

Analysis Date: 1/28/2020 **PQL**

SeqNo: 2272099 SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Chloride

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 66125

%REC

92.2

Batch ID: 50094 Analysis Date: 1/28/2020

PQL

1.5

SeqNo: 2272100

Units: mg/Kg

HighLimit

110

RPDLimit

Qual

Analyte Chloride

Sample ID: MB-50105

SampType: mblk

SPK value SPK Ref Val %REC LowLimit

0

TestCode: EPA Method 300.0: Anions

90

Client ID: PBS Prep Date: 1/28/2020

Batch ID: 50105 Analysis Date: 1/28/2020

PQL

PQL

1.5

1.5

RunNo: 66125

SeqNo: 2272129

LowLimit

Units: mg/Kg

HighLimit

%RPD

%RPD

%RPD

%RPD

RPDLimit

Qual

Analyte Chloride

Sample ID: LCS-50105

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date:

1/28/2020

Batch ID: 50105

14

Result

ND

Analysis Date: 1/28/2020

RunNo: 66125 SeqNo: 2272130

Units: mg/Kg HighLimit

RPDLimit

Qual

Analyte Chloride

Result

SPK value SPK Ref Val

15.00

SPK value SPK Ref Val

15.00

%REC 92.6

LowLimit

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level,

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е 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#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: LCS-50047	Sampl	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organic							
Client ID: LCSS	Batcl	Batch ID: 50047			RunNo: 6	6092						
Prep Date: 1/25/2020	Analysis D	Date: 1/	27/2020	8	SeqNo: 2	270196	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	54	10	50.00	0	109	63.9	124					
Surr: DNOP	4.2		5.000		84.5	55.1	146					
Sample ID: MB-50047	SampT	ype: ME	BLK	Tes	tCode: EI	PA Method	8015M/D: Die	esel Range	e Organics			

Client ID: PBS	Batch	ID: 50 0	047	R	RunNo: 6	6092				
Prep Date: 1/25/2020	Analysis D	ate: 1/	27/2020	S	SeqNo: 2	270198	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	10		10.00		99.7	55.1	146			

Sample ID: LCS-50065	SampT	ype: LC	S	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 50	065	F	RunNo: 6	6119					
Prep Date: 1/27/2020	Analysis D	ate: 1/	28/2020	S	SeqNo: 2	271412	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	91.7	63.9	124				
Surr: DNOP	3.7		5.000		73.3	55.1	146				

Sample ID: MB-50065	Samp	ype: ME	BLK	les	tCode: El	e Organics				
Client ID: PBS	Batch	ID: 50 0	065	F	RunNo: 6	6119				
Prep Date: 1/27/2020	Analysis D	ate: 1/	28/2020	8	SeqNo: 2	271414	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	8.7		10.00		87.2	55.1	146			

Sample ID: LCS-50066	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: 50 0	066	R							
Prep Date: 1/27/2020	Analysis D	ate: 1/	28/2020	S	SeqNo: 2:	271798	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	58	10	50.00	0	116	63.9	124				
Surr: DNOP	5.0		5.000		100	55.1	146				

Qualifiers:

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

- 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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Received by OCD: 2/18/2020 8:09:53 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

4.6

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Surr: DNOP

Eagle 33 34 Battery

Sample ID:	
Client ID:	
Prep Date:	1/27/2020

SampType: MBLK

Batch ID: 50066

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

146

RunNo: 66119

Analysis Date: 1/28/2020 SeqNo: 2271800

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 10.00 107 55.1 146 11

Sample ID: LCS-50086 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 50086 RunNo: 66140 Prep Date: 1/28/2020 Analysis Date: 1/29/2020 SeqNo: 2271929 Units: %Rec **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

92.4

55.1

Sample ID: MB-50086 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 50086 RunNo: 66140 PBS Prep Date: SeqNo: 2271930 1/28/2020 Analysis Date: 1/29/2020 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result **PQL** LowLimit Qual

Surr: DNOP 12 10.00 116 55.1 146

5.000

Qualifiers:

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

- Analyte detected in the associated Method Blank
- Е 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#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: MB-50043

SampType: MBLK

Client ID: PRS Batch ID: 50043

PQL.

5.0

TestCode: EPA Method 8015D: Gasoline Range

Prep Date:

Analyte

Surr: BFB

1/24/2020

Analysis Date: 1/27/2020

RunNo: 66068 SeqNo: 2269049

HighLimit

Units: mg/Kg

105

RPDLimit Qual

Gasoline Range Organics (GRO)

ND 770

1000

77.0

66.6

Sample ID: LCS-50043

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 66068

Client ID: LCSS Prep Date: 1/24/2020

Batch ID: 50043

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2269050 Units: mg/Kg

Gasoline Range Organics (GRO)

Analysis Date: 1/27/2020 Result PQL

22

890

24

990

Result

SPK value SPK Ref Val

25.00

1000

%REC 87.0

89.0

LowLimit HighLimit 80

66.6

%RPD **RPDLimit**

%RPD

Qual

Surr: BFB

Sample ID: 2.5ug gro lcs

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: G66097

5.0

5.0

RunNo: 66097

SeqNo: 2270048

Units: mg/Kg

120

105

120

105

Analyte

Prep Date:

Gasoline Range Organics (GRO)

Analysis Date: 1/27/2020 Result **PQL**

SPK value SPK Ref Val 25.00

1000

SPK value SPK Ref Val

%REC 97.8 98.8

LowLimit HighLimit 80 66.6

%RPD **RPDLimit** Qual

Surr: BFB

Sample ID: mb1 PBS SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

HighLimit

Client ID: Prep Date:

Batch ID: G66126 Analysis Date: 1/28/2020 RunNo: 66126 SegNo: 2271700

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result ND 840

Result

Result

PQL 5.0 %REC 83.7

66.6

LowLimit

LowLimit

80

66.6

%RPD

RPDLimit Qual

RPDLimit

Qual

Surr: BFB

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Sample ID: 2.5ug gro Ics

Client ID: LCSS

Batch ID: G66126

PQL

Batch ID: G66097

POL

5.0

RunNo: 66126

105

105

Prep Date: Analyte

Analysis Date: 1/28/2020

25.00

1000

1000

SeqNo: 2271701 %REC

95.5

99 N

Units: mg/Kg

HighLimit 120

Gasoline Range Organics (GRO) 24 Surr: BFB 990

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 66126

Prep Date:

Client ID: B-3 2-3'

Analysis Date: 1/28/2020

SPK value SPK Ref Val

SeqNo: 2271704

Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit

%RPD

RPDLimit Qual

Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

Sample ID: 2001967-022ams

Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit Practical Quanitative Limit

Analyte detected in the associated Method Blank

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#:

RPDLimit

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Prep Date:

Prep Date:

Eagle 33 34 Battery

Sample	ID:	20019
--------	-----	-------

67-022ams SampType: MS

78

Batch ID: G66097

TestCode: EPA Method 8015D: Gasoline Range

TestCode: EPA Method 8015D: Gasoline Range

Client ID: B-3 2-3'

RunNo: 66126

Analyte

Analysis Date: 1/28/2020 Result **PQL** SPK value SPK Ref Val

SeqNo: 2271704

Units: mg/Kg HighLimit

Gasoline Range Organics (GRO) Surr: BFB

Sample ID: 2001967-022amsd

3200

17

91.2 69.1 142 93.7 66.6 105

LowLimit

Client ID: B-3 2-3'

SampType: MSD Batch ID: G66097

RunNo: 66126

89.4

94.5

%REC

85.91

3436

Units: mg/Kg

142

105

Analyte

Analysis Date: 1/28/2020 Result **PQL**

77

3200

SeqNo: 2271705 SPK value SPK Ref Val

0

0

%REC LowLimit

69.1

66.6

HighLimit %RPD

2.04

0

%RPD

RPDLimit Qual 20

Qual

Gasoline Range Organics (GRO) Surr: BFB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 50070

RunNo: 66126

Prep Date: 1/27/2020

Sample ID: mb-50070

Analysis Date: 1/28/2020

17

SeqNo: 2271722

Units: %Rec

RPDLimit

0

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Surr: BFB 860 1000 85.8 66.6 105

1000

1000

85.91

3436

Sample ID: Ics-50070

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 66126

Prep Date: 1/27/2020

Batch ID: 50070 Analysis Date: 1/28/2020

SeqNo: 2271723

Units: %Rec

HighLimit

Qual

Qual

Analyte Surr: BFB Result

PQL

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

RPDLimit

Sample ID: mb-50149

Prep Date: 1/29/2020

SampType: MBLK Batch ID: 50149

TestCode: EPA Method 8015D: Gasoline Range RunNo: 66183

Analyte Surr: BFB

Result **PQL**

810

Analysis Date: 1/30/2020

SeqNo: 2274174

%REC

80.8

Lowl imit

66.6

Units: %Rec HighLimit

105

RPDLimit

Qual

Sample ID: Ics-50149

Client ID: PBS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Prep Date: 1/29/2020

Analysis Date: 1/30/2020

Batch ID: 50149

RunNo: 66183 SeqNo: 2274175

66.6

Units: %Rec

105

%RPD

Analyte Surr: BFB Result 910

1000

SPK value SPK Ref Val

SPK value SPK Ref Val %REC 91.2

LowLimit

HighLimit

RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

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

Holding times for preparation or analysis exceeded

- 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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Received by OCD: 2/18/2020 8:09:53 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: mb-50144

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Client ID: PBS

Batch ID: 50144

RunNo: 66183

Prep Date: 1/29/2020

Analysis Date: 1/31/2020

SampType: LCS

Batch ID: 50144

PQL

Units: %Rec

Analyte Result 760

PQL SPK value SPK Ref Val

SeqNo: 2274193

HighLimit

105

%RPD

Qual

Surr: BFB

1000

TestCode: EPA Method 8015D: Gasoline Range

%REC

76.0

RunNo: 66183

LowLimit

66.6

Prep Date: 1/29/2020

Client ID: LCSS

Sample ID: Ics-50144

Analysis Date: 1/31/2020

SeqNo: 2274194

%REC

Units: %Rec

%RPD

RPDLimit

Qual

Analyte

Result

1000

SPK value SPK Ref Val

85.3

66.6

HighLimit

RPDLimit

Surr: BFB

850

105

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

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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Received by OCD: 2/18/2020 8:09:53 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID:	MB-50043
------------	----------

SampType: MBLK

Batch ID: 50043

PQL

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

RunNo: 66068

Prep Date: 1/24/2020 Analysis Date: 1/27/2020

SeqNo: 2269077

Units: %Rec

RPDLimit Qual

Analyte

Result 0.87 SPK value SPK Ref Val 1.000

%REC LowLimit 86.6 80 HighLimit

Surr: 4-Bromofluorobenzene Sample ID: LCS-50043

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS

Batch ID: 50043

RunNo: 66068

Units: %Rec

Prep Date: 1/24/2020

Analysis Date: 1/27/2020

SeqNo: 2269078

Result

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

SPK value SPK Ref Val

HighLimit

0.88

Result

Result

0.95

0.97

LowLimit

RPDLimit

Surr: 4-Bromofluorobenzene

1.000

87.7

80

%RPD 120

%RPD

Qual

1.000

RunNo: 66126

Sample ID: mb-50070 Client ID: PBS

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Analyte

Prep Date:

1/27/2020

Batch ID: 50070

PQL

Analysis Date: 1/28/2020

SeqNo: 2271744

Units: %Rec %REC LowLimit HighLimit

RPDLimit

Qual

Surr: 4-Bromofluorobenzene

Client ID: LCSS

Sample ID: mb-50149

Sample ID: LCS-50070

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

97.4

%REC LowLimit

HighLimit

RPDLimit

Qual

Analyte

Prep Date: 1/27/2020

Batch ID: 50070 Analysis Date: 1/28/2020

1.000

RunNo: 66126 SeqNo: 2271745

Units: %Rec

80

%RPD

%RPD

Qual

Surr: 4-Bromofluorobenzene

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

95.1

120

Client ID: PBS

Prep Date: 1/29/2020

Batch ID: 50149 Analysis Date: 1/30/2020

RunNo: 66183

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2274219

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Analyte Benzene Toluene

> Ethylbenzene Xylenes, Total

Result PQL ND 0.025 ND 0.050

ND 0.050 ND

0.91

Result

0.89

Surr: 4-Bromofluorobenzene

1.000

1.000

SPK value SPK Ref Val

91.3

ลก

TestCode: EPA Method 8021B: Volatiles

LowLimit

80

120

Sample ID: LCS-50149

Prep Date: 1/29/2020

Client ID: LCSS

SampType: LCS

Analysis Date: 1/30/2020

PQL

0.025

Batch ID: 50149

%REC

88.7

RunNo: 66183 SeqNo: 2274220

Units: mg/Kg

HighLimit

120

%RPD **RPDLimit** Qual

Benzene

ND

Analyte

Qualifiers: Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Practical Quanitative Limit

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank Value above quantitation range

Sample pH Not In Range Reporting Limit

Analyte detected below quantitation limits

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

	<u> </u>									
Sample ID: LCS-50149	SampType	e: LCS	3	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID	: 501	49	RunNo: 66183						
Prep Date: 1/29/2020	Analysis Date	Analysis Date: 1/30/2020			SeqNo: 2274220 Units:			g		
Analyte	Result P	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.91 0.	.050	1.000	0	91.2	80	120			
Ethylbenzene	0.90 0.	.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	80	120			
Sample ID: mb-50144	SampType	e: MBI	LK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID:	: 5014	44	RunNo: 66183						
Prep Date: 1/29/2020	Analysis Date:	: 1/3	1/2020	S	SeqNo: 2:	274238	Units: %Red	;		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	80	120			
Sample ID: LCS-50144	SampType	: LCS	3	Tes	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID:	501	44	F	RunNo: 60	6183				
Prep Date: 1/29/2020	Analysis Date:	: 1/3	1/2020	S	SegNo: 2	274239	Units: %Red	;		

										•
Sample ID: LCS-50144	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: 50	144	F	RunNo: 6	6183				
Prep Date: 1/29/2020	Analysis D	ate: 1/	31/2020	5	SeqNo: 2	274239	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

D H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: 100ng Ics	Sampī	SampType: LCS			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batcl	Batch ID: R66104			RunNo: 6	6104						
Prep Date:	ep Date: Analysis Date: 1/27/2020		SeqNo: 2270317 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.025	1.000	0	103	70	130					
Toluene	0.98	0.050	1.000	0	97.8	70	130					
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.7	70	130					
Surr: 4-Bromofluorobenzene	0.46		0.5000		93.0	70	130					
Surr: Dibromofluoromethane	0.49		0.5000		98.3	70	130					
Surr: Toluene-d8	0.48		0.5000		96.1	70	130					

Sample ID: 2001967-001a ms	SampT	ype: MS	}	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: B-1 0-1'	Batch	1D: R6	6104	RunNo: 66104						
Prep Date:	Analysis D	ate: 1/	27/2020	8	SeqNo: 2	270319	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	96	1.0	40.95	48.08	117	70	130			
Toluene	280	2.0	40.95	241.3	86.6	70	130			E
Surr: 1,2-Dichloroethane-d4	21		20.48		100	70	130			
Surr: 4-Bromofluorobenzene	14		20.48		70.5	70	130			
Surr: Dibromofluoromethane	21		20.48		100	70	130			
Surr: Toluene-d8	19		20.48		94.2	70	130			

Sample ID: 2001967-001a msc	I SampT	ype: MS	SD	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: B-1 0-1'	Batch	n ID: R6	6104	F	RunNo: 6	6104					
Prep Date: Analysis Date: 1/27/2020				SeqNo: 2270320 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	89	1.0	40.95	48.08	98.8	70	130	8.21	20		
Toluene	270	2.0	40.95	241.3	58.7	70	130	4.21	20	ES	
Surr: 1,2-Dichloroethane-d4	21		20.48		101	70	130	0	0		
Surr: 4-Bromofluorobenzene	15		20.48		70.9	70	130	0	0		
Surr: Dibromofluoromethane	20		20.48		96.7	70	130	0	0		
Surr: Toluene-d8	20		20.48		96.9	70	130	0	0		

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS Batch ID: R66104			6104	F								
Prep Date: Analysis Date: 1/2			27/2020	8	SeqNo: 2	270326	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										

Qualifiers:

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

- Not Detected at the Reporting Limit
 Practical Quanitative Limit
 % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е 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#:

2001967

31-Jan-20

CI	ien	t:

Talon Artesia

Project:

Eagle 33 34 Battery

Project: Eagle 3	3 34 Battery	/										
Sample ID: mb1	Samp1	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List			
Client ID: PBS	Batcl	h ID: R6	6104	F	RunNo: 66104							
Prep Date:	Analysis D	Date: 1/	27/2020	\$	SeqNo: 2270326			(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130					
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.7	70	130					
Surr: Dibromofluoromethane	0.48		0.5000		96.6	70	130					
Surr: Toluene-d8	0.47		0.5000	94.9 70 130								
Sample ID: 100ng Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List			
Client ID: LCSS	Batcl	n ID: R6	6149	F	RunNo: 6	6149						
Prep Date:	Analysis D	Date: 1/	28/2020	S	SeqNo: 2	272307	Units: mg/F	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.97	0.025	1.000	0	97.4	70	130					
Toluene	0.91	0.050	1.000	0	90.8	70	130					
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.8	70	130					
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.5	70	130					
Surr: Dibromofluoromethane	0.46		0.5000		91.2	70	130					
Surr: Toluene-d8	0.46		0.5000		91.1	70	130					
Sample ID: mb1	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batcl	n ID: R6	6149	F	RunNo: 6	6149						
Prep Date:	Analysis D)ate: 1/	28/2020	S	SeqNo: 2	272326	Units: mg/k					
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: 1,2-Dichloroethane-d4	0.45		0.5000		89.8	70	130					
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130					
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130					
Surr: Toluene-d8	0.46		0.5000		92.7	70	130					
Sample ID: Ics-50070	SampT	ype: LC	S	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch	n ID: 50 0	070	F	RunNo: 6	6161						
Prep Date: 1/27/2020	Analysis D	oate: 1/	29/2020	S	SeqNo: 2	272725	Units: %Re	С				

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- 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

Result

0.47

0.44

0.48

0.49

B Analyte detected in the associated Method Blank

%REC

93.8

88.9

95.8

97.1

LowLimit

70

70

70

70

HighLimit

130

130

130

130

%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

0.5000

0.5000

0.5000

0.5000

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

0.49

0.5000

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Drainate

Fagle 33 34 Battery

Project: Eagle 3	3 34 Battery								
Sample ID: mb-50070	SampTyp	e: MBLK	Tes	tCode: El	PA Method	8260B: Vola	iles Short	List	
Client ID: PBS	Batch II	D: 50070	F	RunNo: 66161					
Prep Date: 1/27/2020	Analysis Dat	e: 1/29/2020	9	SeqNo: 2272726			C		
Analyte	Result	PQL SPK val	ue SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46	0.50	00	92.8	70	130			
Surr: 4-Bromofluorobenzene	0.45	0.50	00	90.9	70	130			
Surr: Dibromofluoromethane	0.49	0.50	00	97.5	70	130			
Surr: Toluene-d8	0.50	0.50	00	99.8	70	130			
Sample ID: 100ng Ics	8260B: Volat	iles Short	List						
Client ID: LCSS	Batch II	D: S66161	F	RunNo: 6	6161				
Prep Date:	Prep Date: Analysis Date: 1/29/2020			SeqNo: 2273317 Units: mg/Kg					
Analyte	Result	PQL SPK val	ue SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.92 (0.050 1.0	0 0	92.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.48	0.50	00	95.1	70	130			
Surr: 4-Bromofluorobenzene	0.46	0.50	00	92.5	70	130			
Surr: Dibromofluoromethane	0.49	0.50	00	97.1	70	130			
Surr: Toluene-d8	0.48	0.50	00	95.5	70	130			
Sample ID: mb1	SampTyp	e: MBLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch II	D: S66161	F	RunNo: 6	6161				
Prep Date:	Analysis Date	e: 1/29/2020	S	SeqNo: 2:	273318	Units: mg/K	g		
Analyte	Result I	PQL SPK val	ue SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND (0.050							***************************************
Ethylbenzene	ND (0.050							
Surr: 1,2-Dichloroethane-d4	0.46	0.50	00	92.5	70	130			
Surr: 4-Bromofluorobenzene	0.45	0.50	00	90.4	70	130			
Surr: Dibromofluoromethane	0.48	0.50	00	96.0	70	130			

Qualifiers:

Surr: Toluene-d8

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H ND Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

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

Analyte detected in the associated Method Blank

98.6

70

130

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#:

RPDLimit

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

	Sample ID:	2.5ug	gro	lcs
--	------------	-------	-----	-----

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: G66104

RunNo: 66104

Units: mg/Kg

HighLimit

TestCode: EPA Method 8015D Mod: Gasoline Range

Prep Date: Analyte

Analysis Date: 1/27/2020

SeqNo: 2270329

LowLimit

LowLimit

70

70

70

%REC

87.2

93.5

130

Gasoline Range Organics (GRO) Surr: BFB

22 470

4800

4000

Result

25.00 500.0

SPK Ref Val

70 130

%RPD

%RPD

Sample ID: 2001967-002a ms Client ID: B-1 2-3'

Batch ID: G66104

SampType: MS

RunNo: 66104

Prep Date:

Analysis Date: 1/27/2020

45

PQL

5.0

SPK value

223.6

4472

223.6

4472

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO) Result PQL SPK value SPK Ref Val

SeqNo: 2270334 %REC

4.96

87.5

130

130

RPDLimit Qual ES

Qual

Surr: BFB

Sample ID: 2001967-002a msd

3900 SampType: MSD

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: B-1 2-3

Batch ID: G66104

RunNo: 66104

4748

Units: mg/Kg

Prep Date: Analyte

Analysis Date: 1/27/2020

SeqNo: 2270335 LowLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

Result **PQL** 4800 45

SPK value SPK Ref Val %REC 4748 29.7

HighLimit %RPD 70 130 1.15 70 130

20 ES 0

Sample ID: mb1

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range RunNo: 66104

89.3

Client ID: Prep Date:

Batch ID: G66104 Analysis Date: 1/27/2020

SeqNo: 2270354

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val Result **PQL** 5.0

%REC LowLimit HighLimit

RPDLimit

RPDLimit

RPDLimit

Qual

Qual

Qual

%RPD

Surr: BFB

ND 470

500.0

93.4

130

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID: 2.5ug gro Ics

SampType: LCS

RunNo: 66149

70

70

70

Client ID: LCSS

PBS

Batch ID: G66149

Prep Date:

Analysis Date: 1/28/2020

SegNo: 2272331

Units: mg/Kg

Analyte

Gasoline Range Organics (GRO)

Result **PQL**

SPK value SPK Ref Val

130

20 5.0

25.00 500.0 %REC LowLimit

HighLimit %RPD

Surr: BFB

480 SampType: MBLK

95.3 TestCode: EPA Method 8015D Mod: Gasoline Range

81.8

130

%RPD

Sample ID: mb1 Client ID: PBS

Batch ID: G66149

RunNo: 66149 SeqNo: 2272362

Units: mg/Kg

HighLimit

Prep Date: Analyte

Analysis Date: 1/28/2020

Result **PQL**

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Н ND

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank Analyte detected below quantitation limits

E Value above quantitation range

Sample pH Not In Range Reporting Limit

Page 27 of 28

Not Detected at the Reporting Limit Practical Quanitative Limit POL % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

2001967

31-Jan-20

Client:

Talon Artesia

Project:

Eagle 33 34 Battery

Sample ID: mb1

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: G66149

RunNo: 66149

Prep Date:

Analysis Date: 1/28/2020 PQL

SeqNo: 2272362

Units: mg/Kg

Qual

Analyte

Result ND SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Gasoline Range Organics (GRO)

470

Result

480

500.0

93.7

130

Surr: BFB

SampType: LCS

5.0

TestCode: EPA Method 8015D Mod: Gasoline Range

%RPD

Sample ID: Ics-50070 LCSS Client ID:

Batch ID: 50070

RunNo: 66161

70

Units: %Rec

Analyte

Prep Date:

1/27/2020

Analysis Date: 1/29/2020

500.0

SeqNo: 2273355 SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD 130

RPDLimit

Qual

Surr: BFB

Sample ID: mb-50070

SampType: MBLK

RunNo: 66161

95.9

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Prep Date:

PBS

1/27/2020

Batch ID: 50070

Analysis Date: 1/29/2020

SeqNo: 2273356

Units: %Rec

RPDLimit

Qual

Analyte Surr: BFB Result

PQL

SPK value SPK Ref Val 500.0

%REC 94.3

130

%RPD

470

HighLimit

LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

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

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 28 of 28

Received by OCD: 2/18/2020 8:09:53 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

NRM2004941164

Sample Log-In Check List

Client Name: TALON AR	TESIA Work	Order Number:	2001967		RcptNo	: 1
Received By: Desiree D	ominguez 1/24/202	20 9:15:00 AM		T		
Completed By: Leah Baca	a 1/24/202	20 9:42:57 AM		Last Street		
Reviewed By: DAD I/	24/20			1100/11		
Chain of Custody						
1. Is Chain of Custody suffici	ently complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delive	ered?		Client			
<u>Log In</u>			(Ta)	[]		
3. Was an attempt made to c	ool the samples?		Yes 🗸	No 🗆	NA 🗌	
4. Were all samples received	at a temperature of >0° C t	o 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in proper contain	ner(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA	and ONG) properly preserve	d?	Yes 🗹	No 🗌		
8. Was preservative added to	bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with	h headspace <1/4" for AQ V	OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containe	ers received broken?		Yes	No 🗹	# of preserved bottles checked	
 Does paperwork match bot (Note discrepancies on cha 			Yes 🗹	No 🗆	for pH:	r≫12 unless noted)
12. Are matrices correctly ident	tified on Chain of Custody?		Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses we	ere requested?		Yes 🗹	No 🗆		10 1 1
Were all holding times able (If no, notify customer for a			Yes 🗹	No 🗆	Checked by:	SP 1/24/2
Special Handling (if app	olicable)					
15. Was client notified of all di	screpancies with this order?		Yes 🗌	No 🗆	NA 🗹	
Person Notified:	enalistat di 1804 line e e e e e e e e e e e e e e e e e e	Date:				
By Whom:		Via:	eMail] Phone 🔲 Fax	☐ In Person	
Regarding:						
Client Instructions:				Paris Transport Control of the Contr		
16. Additional remarks:						
17. Cooler Information Cooler No Temp °C 1 4.5	Condition Seal Intact	Seal No S	eal Date	Signed By		
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