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Closure Report

Big Sky ABY State #1 Chaves County, New Mexico API ID # 30-005-21020 Incident # NOY1723064014 / 1RP-4792

Prepared For:

EOG Resources 104 S. 4th St. Artesia, NM 88210

Prepared By:

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

August 10, 2023



NMOCD

506 W. Texas Ave Artesia, NM 88210

Subject: Closure Report

Big Sky ABY State #001 Chaves County, New Mexico

API # 30-005-21020

Incident # NOY1723064014 / 1RP-4792

To Whom It May Concern,

EOG Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request are presented herein.

Site Information

The Big Sky ABY State #001 is located approximately 45 miles northwest of Lovington, New Mexico. The legal location for this Chaves is Unit Letter M, Section 26, Township 8 South, and Range 33 East in Chaves County, New Mexico. More specifically the latitude and longitude for the Chaves are 33.58612 and -103.54252. A Site Location Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Douro-Faskin with, 0 to 2 percent slopes. The referenced soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of the Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 0.44 miles from the site and is recorded at 157 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated within a low potential Karst area. The FEMA data base locates the site in a minimal flood hazard zone.

Approx	kimate Depth to	Groundwater '	157 feet bgs
∐Yes	⊠No	Within 300 feet of any continuously flowing water any other significant watercourse	course or
∐Yes	⊠No	Within 200 feet of any lakebed, sinkhole or a play	a lake
∐Yes	⊠No	Within 300 feet from an occupied permanent residuction of church	dence,
∐Yes	⊠No	Within 500 feet of a spring or a private, domestic well used by less than five households for domes watering purposes	
∐Yes	⊠No	Within 1000 feet of any freshwater well or spring	
∐Yes	⊠No	Within incorporated municipal boundaries or within municipal freshwater well field covered under a mordinance adopted pursuant to Section 3-2703 NI	unicipal
□Yes	⊠No	Within 300 feet of a wetland	
∐Yes	⊠No	Within the area overlying a subsurface mine	
□Yes	⊠No	Within an unstable area	
□Yes	⊠No	Within a 100-year floodplain	

New Mexico Oil Conservation Division's (NMOCD) criteria stated from the work order must adhere to the following conditions stated from the approved work plan. The following conditions are listed in the table below.

	Closure Criteria for Soils	s Impacted by a Chaves	
Minimum depth below any point within the horizontal boundary of the Chaves to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
	Total Chlorides	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
< 50'	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 August 6, 2017, a hole in a heater treater from vandalism caused the Chaves. Approximately 20 barrels (bbls) of produced water was Chavesd with 8 bbls recovered.

EOG Resources requested Talon to resume remediation of previous spill reported on August 18, 2017. The C-141 along with a work plan was submitted to the NMOCD and the approved work plan can be reviewed under incident number NOY1723064014 / 1RP-4792. The site location map is presented in Appendix I. The approved work plan is attached in Appendix VI.

Site Assessment

On December 7, 2022, upon client authorization, Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was photographed, soil samples were collected utilizing a hand auger, and the area mapped. All soil samples were properly packaged in laboratory provided glassware, preserved on ice in the custody of Talon personnel, and transported to Eurofins Analytical Laboratory for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH via EPA Method 8015M), and Volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 in Appendix I, and the results of the sampling event are presented in Table 1.

Table 1Initial Site Assessment Samples

	Big Sky ABY State #1								
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Approved Closure Criteria, work plan			10 mg/kg	50 mg/kg		0 + MRO 0 100 mg/k		100 mg/kg	600 mg/kg
S-1	12/7/2023	0-6"	0.00416	ND	ND	ND	ND	ND	150
S-1	12/7/2023	2'	ND	0.00173	21.3	258	79.2	359	401
S-1	12/7/2023	3' R	ND	ND	26.6	122	40.7	189	324
S-2	12/7/2023	0-6"	ND	ND	16.1	27.2	ND	43.3	72.3
S-2	12/7/2023	2'	ND	ND	ND	17.4	ND	17.4	33.8
S-2	12/7/2023	3' R	ND	ND	21.2	ND	ND	21.2	60.0
S-3	12/7/2023	0-6"	ND	ND	ND	ND	ND	ND	39.8
S-3	12/7/2023	2'	ND	ND	16.5	ND	ND	16.5	345
S-3	12/7/2023	3' R	ND	ND	ND	ND	ND	ND	351
S-4	12/7/2023	0-6"	ND	ND	ND	17.7	ND	17.7	57.9
S-4	12/7/2023	2'	ND	ND	ND	ND	ND	ND	309
S-4	12/7/2023	3' R	ND	ND	18.9	15.3	ND	34.2	757
S-5	12/7/2023	0-6"	ND	ND	47.3	73.0	21.2	142	333
S-5	12/7/2023	1'	ND	ND	21.1	514	128	663	359
S-5	12/7/2023	2'	ND	ND	29.5	133	48.9	211	547
S-5	12/7/2023	3' R	ND	ND	20.5	154	50.2	225	648

NOTES:

mg/kg

Below ground sur-

face

Milligrams per kilo-

gram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

C Confirmation SampleSW Sidewall Sample

Analyte Not Detect-

ND ed

R Hand Auger Refusal

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria.

Remedial Actions

On December 29, 2022, based on the laboratory results from the initial site assessment and upon client authorization, Talon personnel and equipment mobilized to the site to continue delineation of the impacted area with backhoe. The impacted area was excavated to 5 feet bgs at the locations shown on Figure 2, site excavation map and the analytical results from those efforts presented in table 2. All soil samples were properly collected and preserved for transport to Eurofins Laboratories for analysis. The soil sample results from the laboratory are tabulated below. Sample locations are illustrated on Figure 2, Appendix I.

Table 2Remediation Samples

	Big Sky ABY State #1									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg	
NMOCD Approved Closure Criteria		10 mg/kg	50 mg/kg		+ GRO + N ned = 100		100 mg/kg	600 mg/kg		
S-6	12/29/2023	5'	ND	ND	ND	18.6	ND	18.6	430	
S-7	12/29/2023	5'	ND	ND	26.8	117	31.1	175	123	
3-7	1/12/2023	6′	ND	ND	ND	ND	ND	46.9	172	
	12/29/2023	5'	ND	ND	30.6	88.4	22.8	142	479	
	1/12/2023	6'	ND	ND	ND	35.8	ND	35.8	812	
S-8	1/23/2023	6'	ND	ND	ND	91.9	24.6	163	837	
	2/2/2023	6'	ND	ND	ND	166	42.7	208.7	400	
	2/8/2023	6.5	ND	ND	ND	63.5	30.6	94.1	384	
	12/29/2023	3'	0.000634	0.00238	25.4	166	54.5	246	548	
SW-1	1/12/2023	3'	ND	ND	ND	113	ND	113	657	
244-1	1/23/2023	3'	ND	ND	46.8	138	48.3	233	686	
	2/2/2023	3'	ND	ND	ND	ND	ND	ND	528	
SW-2	12/29/2023	3'	ND	ND	ND	17.7	15.6	33.3	423	
	12/29/2023	3'	ND	ND	38.3	115	28.1	181	484	
	1/12/2023	3'	ND	ND	ND	103	ND	103	236	
SW-3	1/23/2023	3'	ND	ND	43.5	471	147	662	372	
	2/2/2023	3′	ND	ND	ND	64.9	19.7	84.6	624	
	2/8/2023	3'	Nd	ND	ND	63.5	30.6	94.1	384	
SW-4	12/29/2023	3'	ND	ND	ND	62.5	ND	62.5	259	

NOTES:

C

SW

ND

mg/kg

Milligrams per
kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

Confirmation Sample

Analyte Not Detected

Sidewall Sample

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remediation Summary

On March 6, 2023, based on the laboratory results, Talon personnel return to location and collected confirmation samples. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, Appendix I.

On May 26, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at C-3, C-4, SW-2, SW-3, and SW-4. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, Appendix I.

On June 5, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at C-4, SW-2, and SW-3. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, Appendix I.

On July 26, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at SW-1. Soil sample was properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, Appendix I.

Table 3Confirmation Samples

	Big Sky ABY State #1								
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Approved Closure Criteria		losure	10 mg/kg	50 mg/kg		GRO + MR d = 100 m _i		100 mg/kg	600 mg/kg
C-1	3/6/2023	6.5'	ND	ND	ND	52.6	19.1	71.7	352
C-2	3/6/2023	6.5'	ND	ND	ND	39.7	12.2	51.9	320
C-3	3/6/2023	6.5'	ND	ND	ND	164	46.2	210.2	368
C-3	5/25/2023	8.5'	ND	ND	ND	ND	ND	ND	160
	3/6/2023	6.5'	ND	ND	ND	289	62.3	351.3	496
C-4	5/25/2023	8.5'	ND	ND	ND	144	59.8	203.8	320
	6/1/2023	8.5'	ND	ND	ND	12.5	ND	12.5	112
C-5	3/6/2023	6.5'	ND	ND	ND	ND	ND	ND	320
SW-1	3/6/2023	3'	ND	ND	ND	43.9	12.5	56.4	640
300-1	7/26/2023	3′	ND	ND	ND	ND	ND	ND	48
	3/6/2023	3'	ND	ND	ND	97.3	50.7	148	272
SW-2	5/25/2023	3'	ND	ND	ND	69.6	33.6	103.2	304
	6/1/2023	3'	ND	ND	ND	25.0	ND	25.0	144
	3/6/2023	3'	ND	ND	ND	133	59.5	192.5	336
SW-3	5/25/2023	3′	ND	ND	ND	440	192	632	256
	6/1/2023	3′	ND	ND	ND	13.1	ND	13.1	112
SW-4	3/6/2023	3'	ND	ND	ND	118	78.3	196.3	416
300-4	5/25/2023	3'	ND	ND	ND	ND	ND	ND	480

NOTES:

BGS Below ground

surface

mg/kg Milligrams per

kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

c Confirmation

Sample

SW Sidewall Sample

ND Analyte Not

Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Closure

On behalf of EOG Resources, we respectfully request that no further actions be required and that closure of this incident be granted.

Respectfully submitted,

Talon/LPE

Chad Hensley

Clad Horob

Project Manager

Attachments:

Appendix I Site Maps

Appendix II Groundwater Data, Soil Survey, FEMA Flood Map

Appendix III C-141 Forms, NMOCD Correspondence

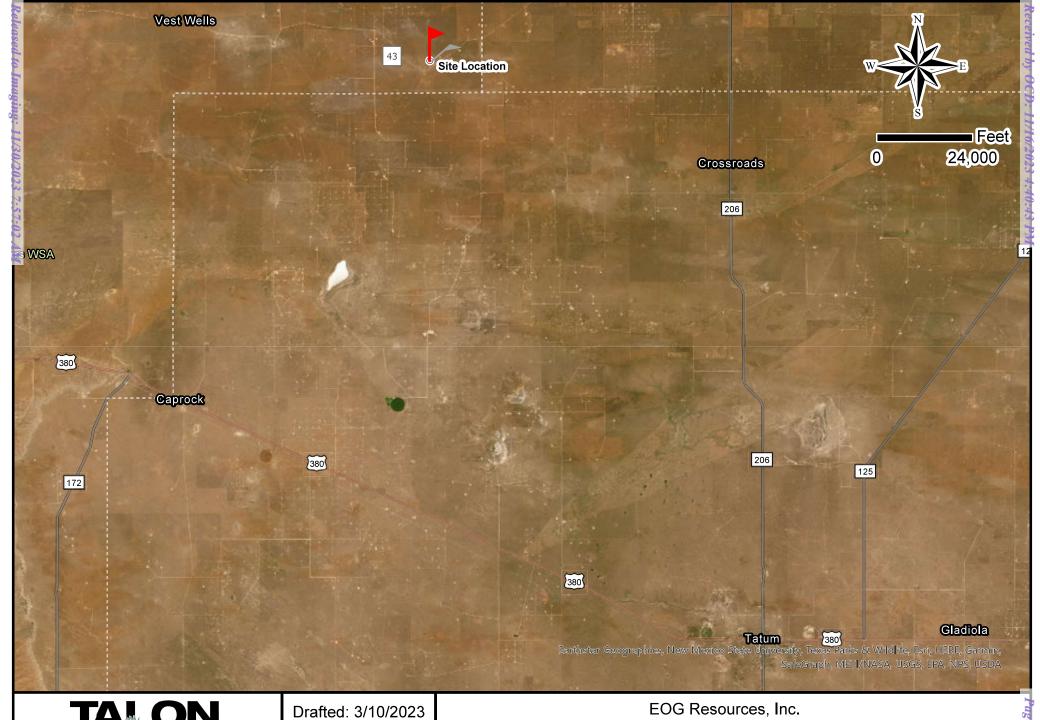
Appendix IV Photographic Documentation

Appendix V Laboratory Reports



Appendix I

Site Maps



TALON

Orafted: 3/10/2023 1 in = 24,000 ft Drafted By: IJR EOG Resources, Inc.
Big Sky ABY State #1
Elida, New Mexico
Location Map





TALON

1 in = 25 ft Drafted By: IJR

Elida, New Mexico Site Map Figure 2



TALON

1 in = 25 ft Drafted By: JAI

Sky ABY State #1 Elida, New Mexico Confirmation Map Figure 3



Appendix II

Groundwater Data
Soil Survey
FEMA Flood Map

Page 1 of 2



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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

Click to hideNews Bulletins

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USGS 333522103302901 08S.33E.25.42422

Available data for this site SUMMARY OF ALL AVAILABLE DATA ✓ GO

Well Site

DESCRIPTION:

Latitude 33°35'23", Longitude 103°30'37" NAD27

Roosevelt County, New Mexico , Hydrologic Unit 12080001

Well depth: 151 feet

Land surface altitude: 4,315.00 feet above NGVD29.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1980-02-	1995-01-	1
<u>measurements</u>	07	26	4

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to New Mexico Water Science Center Water-**Data Inquiries**

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Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?

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National Water Information System: Web Interface

USGS	Water	Resources
0303	MAGICEL	Mesources

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Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

333522103302901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 333522103302901 08S.33E.25.42422

Available data for this site Groundwater: Field measurements V GO Roosevelt County, New Mexico

Hydrologic Unit Code 12080001

Latitude 33°35'23", Longitude 103°30'37" NAD27

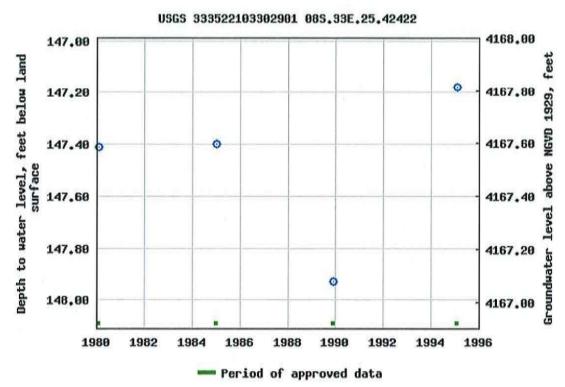
Land-surface elevation 4,315.00 feet above NGVD29

The depth of the well is 151 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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1.03 0.87 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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USGS 333503103325801 08S.33E.34.212211

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 33°35'03", Longitude 103°32'58" NAD27

Chaves County, New Mexico , Hydrologic Unit 12080001

Well depth: 180 feet

Land surface altitude: 4,355 feet above NGVD29.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1995-02-	1995-02-	-
measurements	21	21	т

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science

Email questions about this site to New Mexico Water Science Center Water-**Data Inquiries**

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USGS Water R	Resources
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Data Category:		Geographic Area:		
Groundwater	~	Geographic Area: United States	~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 333503103325801

Minimum number of levels = 1

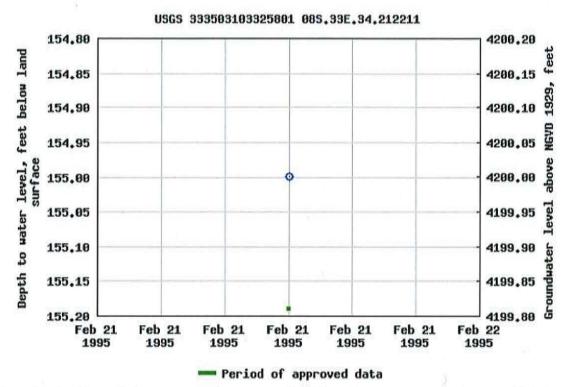
Save file of selected sites to local disk for future upload

USGS 333503103325801 08S.33E.34.212211

Available data for this site Groundwater: Field measurements V GO
Chaves County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°35'03", Longitude 103°32'58" NAD27
Land-surface elevation 4,355 feet above NGVD29
The depth of the well is 180 feet below land surface.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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1.01 0.88 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number Well Tag

Q64 Q16 Q4 Sec Tws Rng

X \mathbf{Y}

CL 00314 POD1

34 08S 33E 634611

3716897

Driller License: 1626

Driller Company:

TAYLOR, ROY ALLEN

Driller Name:

TAYLOR, ROY A.

Drill Start Date:

04/18/2016

Drill Finish Date:

04/20/2016

Plug Date:

Log File Date:

04/29/2016

PCW Rcv Date:

Shallow

Pump Type:

Pipe Discharge Size:

Source: Estimated Yield: 5 GPM

Casing Size:

5.00

Depth Well:

220 feet

Depth Water:

157 feet

Water Bearing Stratifications:

Bottom Description Top

116 135 Sandstone/Gravel/Conglomerate 135 185 Sandstone/Gravel/Conglomerate

182 205 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

220 160

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.

3/24/23 1:19 PM

POINT OF DIVERSION SUMMARY

Received by OCD: 11/16/2023 4:40:43 PM



MAP LEGEND

â

00

Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

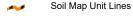
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

... Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Northern Part Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DUA	Douro-Faskin, moist association, gently undulating	9.7	100.0%
Totals for Area of Interest		9.7	100.0%

Chaves County, New Mexico, Northern Part

DUA—Douro-Faskin, moist association, gently undulating

Map Unit Setting

National map unit symbol: dm02 Elevation: 2,750 to 4,800 feet

Mean annual precipitation: 13 to 20 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Douro and similar soils: 50 percent Faskin and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Douro

Setting

Landform: Plateaus

Landform position (three-dimensional): Rise

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

Parent material: Calcareous alluvial and eolian deposits

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 25 inches: sandy clay loam
H3 - 25 to 33 inches: cemented material
H4 - 33 to 60 inches: gravelly loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: Low

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

moderately high (0.01 to 0.60 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 80 percent

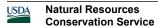
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e



Map Unit Description: Douro-Faskin, moist association, gently undulating---Chaves County,

New Mexico, Northern Part

Hydrologic Soil Group: C

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Description of Faskin

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Side slope

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

Parent material: Alluvial and eolian deposits

Typical profile

H1 - 0 to 12 inches: fine sandy loam H2 - 12 to 30 inches: sandy clay loam H3 - 30 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Minor Components

Portales

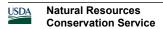
Percent of map unit: 5 percent

Ecological site: R077CY052NM - Loamy Sand

Hydric soil rating: No

Dune land

Percent of map unit: 5 percent



Map Unit Description: Douro-Faskin, moist association, gently undulating---Chaves County, New Mexico, Northern Part

Hydric soil rating: No

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Northern Part

Survey Area Data: Version 18, Sep 8, 2022



Appendix III

C-141 Forms

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company Contact EOG Y Resources, Inc. Robert Asher Telephone No. Address 104 S. 4th Street Artesia, NM 88210 575-748-1471 **Facility Name** Facility Type Big Sky ABY State #1 Well Surface Owner Mineral Owner API No. State State 30-005-21020 LOCATION OF RELEASE Feet from the Unit Letter Township Feet from the North/South Line East/West Line Section Range 33E 660 South 660 West M Chaves Latitude 33.58612 Longitude -103.54252 NATURE OF RELEASE Type of Release Volume Recovered Volume of Release Produced Water 20 B/PW 8 B/PW Source of Release Date and Hour of Occurrence Date and Hour of Discovery Heater Treater 08/06/2017; PM 08/06/2017; PM Was Immediate Notice Given? If YES, To Whom? ☐ Yes
☐ No ☐ Not Required NIA RECEIVED By Whom? Date and Hour By Olivia Yu at 5:42 pm, Aug 18, 2017 Was a Watercourse Reached? If YES, Volume Impac ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Hole in heater treater from vandalism (gunshot), caused the release. Vacuum truck(s) and roustabout crews were called. Describe Area Affected and Cleanup Action Taken. An approximate area of 50°X35°. The well and valves were closed. Vacuum truck recovered remaining produced water. The impacted soils were excavated (1'depth) and hauled to an NMOCD approved facility. Site check on 8/15/2017 and initial vertical and horizontal delineation samples were collected (8/15/2017) to be analyzed for TPH & BTEX (chlorides for documentation). Depth to Ground Water: >100' (approximately 157', Section 34, T8S-R33E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Robert Asher 8/18/2017 **Expiration Date:** Title: Environmental Supervisor Approval Date: E-mail Address: Robert_asher@eogresources.com Conditions of Approval: Attached see attached directive Phone: 575-748-4217 Date: August 16, 2017 * Attach Additional Sheets If Necessary 1RP-4792

nOY1723064014

pOY1723064269

Page 33 of 204

	1 1180 00 0 1 2
Incident ID	NOY1723064014
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 follow	wing items must be included in the closure report.
A scaled site and sampling diagram as described in 19.1	5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriat	e ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file may endanger public health or the environment. The acceptar should their operations have failed to adequately investigate a human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or	omplete to the best of my knowledge and understand that pursuant to OCD rules certain release notifications and perform corrective actions for releases which nce of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ace of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
0. – 1	Date: 11/16/2023
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and irface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
Closure Approved by: Ashley Maxwell	Date:
Printed Name: Ashley Maxwell	Title: Environmental Specialist

From: Jeremy Haass
To: Chad Hensley

Subject: FW: Big Sky ABY State 1 (nOY1723064014) Sampling Notification

Date: Thursday, March 2, 2023 7:03:42 AM

Attachments: image001.png

image002.png

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

FYI

Jeremy Haass

Safety & Environmental Specialist EOG Resources – Artesia Division

104 S. 4th Street Artesia, NM 88210 Office: (575) 748-4311 Fax: (575) 748-4131

Cell: (575) 513-9235

jeremy_haass@eogresources.com



From: Tina Huerta < Tina Huerta@eogresources.com>

Sent: Thursday, March 2, 2023 6:08 AM

To: ocd.enviro@emnrd.nm.gov

Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia

Regulatory < Artesia_Regulatory@eogresources.com >

Subject: Big Sky ABY State 1 (nOY1723064014) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Big Sky ABY State 1 M-26-8S-33E Chaves County, NM nOY1723064014

Sampling will begin at 8:00 a.m. on Monday, March 6, 2023.

Thank you,

Tina Huerta

Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina_huerta@eogresources.com



Artesia Division



Appendix IV

Photographic Documentation





Page 1 of 3





Photograph No.2

Description: 5' Excavation

Gridding on 200 sq/ft for sampling event.





Page 3 of 3



Appendix V

Laboratory Reports



February 07, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/06/23 12:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 02/06/2023
 Sampling Date:
 02/02/2023

 Reported:
 02/07/2023
 Sampling Type:
 Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Applyand By 1H /

Project Location: EOG - LEA COUNTY, NM

ma/ka

Sample ID: S - 8 (H230500-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90	
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18	
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93	
Total BTEX	<0.300	0.300	02/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/06/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	166	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	42.7	10.0	02/06/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 02/06/2023 Sampling Date: 02/02/2023

Reported: 02/07/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: EOG - LEA COUNTY, NM

ma/ka

Sample ID: SW - 1 (H230500-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90	
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18	
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93	
Total BTEX	<0.300	0.300	02/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/06/2023	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/06/2023 Sampling Date: 02/02/2023

Reported: 02/07/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: EOG - LEA COUNTY, NM

ma/ka

Sample ID: SW - 3 (H230500-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90	
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18	
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93	
Total BTEX	<0.300	0.300	02/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/06/2023	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	64.9	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	19.7	10.0	02/06/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Keene

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Talas I DE								
	I dioli LFC		BILL TO				ANALYSIS RE	REQUEST	
Project Manage	Project Manager: Chad Hensley		P.O. #:		\dashv				
Address: 408	Address: 408 W. Texas Ave		Company: EOG						
city: Artesia	a state: NM	zip: 88210	em	n					
Phone #: 575.746.8768	.746.8768 Fax #:		Address:						
Project #: 700438.306.01	1	er: Chad Hensley	City:		_	_			
Project Name:	Big Sky ABY State #1		State: Zip:						
Project Location:	n: Lea County, NM		#						
Sampler Name:	Chad Hensley		Fax #:						
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG					
Lab I.D.	Sample I.D.	OR (C)OMP. FAINERS IDWATER WATER	ASE: DOL				,		
1/230500		# CON	OTHER ACID/E ICE / C OTHER	TIME	CL BTEX	TPH			
5	S-8	-	02/02/2023	09:48	×	×			
3 9	SW-1	G 1 X	02/02/2023	10:19	×	×		V	
u	SW-3	×	02/02/2023	10:42	×				
analyses. All claims including service. In no event shall Car affiliates or successors arising	counteges, Cardinal's liability and citen those for negligence and any other ca final be liable for incidental or consequent of or related to the performance of	Its exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid use whatsoever shall be deemed waived unless made in writing and received by cardinal within 30 days after tental damages, including without limitation, business interruptions, loss of use or loss of profits incurred by of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above started rea-	or tort, shall be limited to the amount paid received by Cardinal within 30 days after oss of use, or loss of profits incurred by clisted the stated reasts based upon any of the above stated reasts.	by the client for the completion of the apent, its subsidiaries,	plicable				
Chel Hart	9	Received By:	DA & AC	Phone Result: Fax Result: REMARKS:		Yes □ No Yes □ No	Add'l Phone #: Add'l Fax #:		
Relinquished By:	Date:	Received By:		/	24		hour Rush	1 30/	
Delivered By:	Delivered By: (Circle One) 3.1; / (*- ()	Sample Condition Cool Intact	ON CHECKED BY:						

Page 6 of 6



February 19, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/13/2023

Reported: 02/19/2023
Project Name: BIG SKY ABY STATE #1

Project Number: 700438.306.01

Project Location: EOG - LEA COUNTY, NM

Sampling Date: 02/08/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 @ 6.5' (H230662-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	0.225	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	0.082	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	1.91	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEX	2.22	0.300	02/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.0	10.0	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	43.6	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	17.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

A ... - I. ... - - I D. ... 311 /

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TALON LPE **CHAD HENSLEY** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 02/13/2023 Sampling Date: 02/08/2023

Reported: 02/19/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 3 @ 3' (H230662-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEX	<0.300	0.300	02/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	63.5	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	30.6	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 5 of 5



March 10, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/08/23 11:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



03/06/2023

Soil

Analytical Results For:

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

Received: 03/08/2023 Sampling Date: Reported: 03/10/2023 Sampling Type:

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Project Location: EOG - LEA COUNTY, NM

Sample ID: C - 1 @ 6.5' (H231050-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.95	97.7	2.00	1.62	
Toluene*	<0.050	0.050	03/09/2023	ND	1.99	99.5	2.00	0.904	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.00	100	2.00	0.784	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.08	101	6.00	1.81	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	52.6	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	19.1	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Applyzod By: 14

Project Location: EOG - LEA COUNTY, NM

Sample ID: C - 2 @ 6.5' (H231050-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	39.7	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	12.2	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Project Location: EOG - LEA COUNTY, NM

Sample ID: C - 3 @ 6.5' (H231050-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	164	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	46.2	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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03/06/2023

Analytical Results For:

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

Received: 03/08/2023 Sampling Date:

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact Sample Received By: Brandi Bautista Project Number: 700438.306.01

Project Location: EOG - LEA COUNTY, NM

Sample ID: C - 4 @ 6.5' (H231050-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	289	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	62.3	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Applyzod By: 14

Project Location: EOG - LEA COUNTY, NM

Sample ID: C - 5 @ 6.5' (H231050-05)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/09/2023	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 1 @ 3' (H231050-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/09/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	43.9	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	12.5	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Applyzod By: 14

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 2 @ 3' (H231050-07)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/09/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	97.3	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	50.7	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

TALON LPE CHAD HENSLEY 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Brandi Bautista

Applyzod By: 14

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 3 @ 3' (H231050-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/09/2023	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	133	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	59.5	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 03/08/2023 Sampling Date: 03/06/2023

Reported: 03/10/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: 700438.306.01 Brandi Bautista

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 4 @ 3' (H231050-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/09/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	118	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	78.3	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Talon LPE

Drainat	B/LL 70	
Chad Hensley	P.O. #: ANALYSIS	REQUEST
9	Company: EO(5	
City: Artesia State: NM zip: 88210	enu (
Filone #: 0/0./40.8/08 Fax #:		
Project #: 700438,306.01 Project Owner:	Oit.	
Project Name: Big Sky ABY State #1		
Project Location: Lea County, NM	Dr. Lip.	
Sampler Name: Chad Hensley	rilone#:	
	Fax#:	
	PRESERV. SAMPLING	
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Lab I.D. Sample I.D. OR (C. AINER DWATER		
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service.	tort, shall be limited to the amount paid by the client for the	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Date: Date:	of Use, or loss of profits incurred by client, its subsidiaries, seek upon any of the above stated reasons or otherwise.	
Ched Howden B. 8.25	Phone Result: Yes No Add'l Phone #:	
Relinquished By: Date: Received By:		
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Delivered By: (Circle One) 3 8. 100.10 Sample Condition	CHECKED RY.	
かり、井石	(Initials)	
† Cardinal cannot accept verhal changes Bloom for the No	100	
393-2326 (575) 393-2326 (1811) Section 1988 (1988) Please fax written changes to	5) 393-2326	



May 30, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 9:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY

Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H232687-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	QM-07
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/26/2023	ND	432	108	400	11.8	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2023 Sampling Date: 05/25/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: BIG SKY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: EOG - LEA COUNTY

ma/ka

Sample ID: SW - 2 (H232687-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/26/2023	ND	432	108	400	11.8	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	69.6	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	33.6	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Sampling Date: 05/25/2023 Reported: 05/30/2023 Sampling Type: Soil

Project Name: **BIG SKY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Applyzod By: 14

Project Location: **EOG - LEA COUNTY**

Sample ID: C - 4 @ 8.5' (H232687-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/26/2023	ND	432	108	400	11.8	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	144	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	59.8	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	133	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	165	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Sampling Date: 05/25/2023 Reported: 05/30/2023 Sampling Type: Soil

Project Name: BIG SKY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: EOG - LEA COUNTY

Sample ID: C - 3 @ 8.5' (H232687-04)

RTFY 8021R

B1EX 8021B	mg,	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	< 0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	< 0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 05/26/2023 Sampling Date: 05/25/2023 Reported: 05/30/2023 Sampling Type: Soil

Project Name: **BIG SKY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

EOG - LEA COUNTY Project Location:

Sample ID: SW - 3 (H232687-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	440	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	192	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	144 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	176 9	6 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

>	
Printing Maine, I alon LPE	BILL TO ANALYSIS DECLIEST
rioject manager: Chas Hensley	
Address: 408 W. Texas Ave	Company: EOG
city: Artesia state: NM zip: 88210	Attn:
Phone #: 575.746.8768 Fax #:	Address:
Project #: Project Owner: EOG	City:
Project Name: Big Sky	
Project Location: Lea County	Clare. Zip:
Sampler Name: N.Rose	rnone #:
The second secon	Fax #:
	PRESERV. SAMPLING
# CONTAINERS GROUNDWATER WASTEWATER	OTHER: ACID/BASE: ICE / COOL OTHER:
000	05/25/;1305
(2)	1315
(3) 8.5° C1	1344
O-AAC	1402
44 44 45 Isse NoTe: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be	ct or tort, shall be limited to the amount and the state of the state
ise. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business made in writing and received by Cardinal within 30 days after completion of the applications or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	pplical
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elivered By: (Circle One) #//3 Sample Condition Cool Infact Cool Infact Ares Ares	ion CHECKED BY: SPOOLE QUELLS s (Initials)
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Page 8 of 8

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June 09, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 06/05/23 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 06/05/2023 Reported: 06/09/2023

Project Name: BIG SKY ABY STATE #1

Project Number: 700438.306.01

Project Location: EOG - LEA COUNTY, NM

Sampling Date: 06/01/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: C - 4 8.5' (H232834-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	12.5	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 06/05/2023 Sampling Date: 06/01/2023

Reported: 06/09/2023 Sampling Type: Soil Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact

Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 2 (H232834-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43	
Ethylbenzene*	< 0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	25.0	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Analytical Results For:

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

Received: 06/05/2023 Sampling Date: 06/01/2023

Reported: 06/09/2023 Sampling Type: Soil

Project Name: BIG SKY ABY STATE #1 Sampling Condition: Cool & Intact
Project Number: 700438.306.01 Sample Received By: Shalyn Rodriguez

Project Location: EOG - LEA COUNTY, NM

Sample ID: SW - 3 (H232834-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	13.1	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Recei Sampler - UPS		by C	Relinquished By:	A	Relinquished By:	Parfiliates or successors aris	2 PLEASE NOTE: LIADING A	TARE NOTE: Lighting	40.	:43		1		Cag A		C	zu?	D.	1	4232834	Lab I.D.	2	FOR LAB USE ONLY	Sampler Name.		Project Location	Project Name: A	Project #: 700438.306.01	Phone #: 575.746.8768	city: Artesia	Address: 408	Project Manage	Company Name: Talon L	
- Bus - Other:	Delivered By: (Circle One)		Ÿ.	2) XX	filiates or successors arising out of or related to the perform	ing those for negligence and any	nd Damages Cardinal's liability									CW 2 8 5	SW-2 8-5'	C-4 8.5'		oalilo	Sample I D		IA'I YOOC	N Doso	Project Location: Lea County	Project Name: MatadorWontonPipeline	438.306.01	746.8768	В	Address: 408 W. Texas Ave	Project Manager: Chad Hensley	Talon LPE	(575) 393-2326 F
0.36/-		Time:	Date:	Time:	Date:	mance of services hereunder by	TEASE NOTE: Liability and Datingto, columns aboutly and Maria whatsoever shall be deemed in alyses. All claims including those for neglegence and any other cause whatsoever shall be deemed in alyses. All claims including those for neglegence and any other causes whatsoever including without many statements.	and client's exclusive remedy for														P. I						Project Owner:	Fax #:	State: NM	'e	еу		(575) 393-2326 FAX (575) 393-2476
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Page 6 of 6

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210 Generated 12/14/2022 10:48:14 AM

JOB DESCRIPTION

Big Sky ABY State 1 SDG NUMBER Chaves County NM

JOB NUMBER

890-3613-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 12/14/2022 10:48:14 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Talon/LPE
Laboratory Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1
SDG: Chaves County NM

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13

Definitions/Glossary

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Qualifiers

GC VOA Qualifier

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Indicates the analyte was analyzed for but not detected.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

U

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit

MDL MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Talon/LPE

Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Job ID: 890-3613-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3613-1

Receipt

The samples were received on 12/8/2022 4:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-3613-1), S-1 (890-3613-2), S-1 (890-3613-3), S-2 (890-3613-4), S-2 (890-3613-5), S-2 (890-3613-6), S-3 (890-3613-7), S-3 (890-3613-8), S-3 (890-3613-9), S-4 (890-3613-10), S-4 (890-3613-11), S-4 (890-3613-12), S-5 (890-3613-13), S-5 (890-3613-14), S-5 (890-3613-15) and S-5 (890-3613-16).

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. <EXPLANATION REQUIRED>

890-3613

#13

#14

#15

#16

Time on jars does not match times on COC.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-41575 and analytical batch 880-41559 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41575/2-A) and (LCSD 880-41575/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (890-3613-5) and S-2 (890-3613-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-1 (890-3613-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-41575 and analytical batch 880-41559 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: The method blank for preparation batch 880-41575 and analytical batch 880-41559 contained Diesel Range Organics (Over C10-C28) and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

150

Client Sample Results

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-1

Date Collected: 12/07/22 13:53 Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

Lab Sample ID: 890-3613-1

Matrix: Solid

Dil Fac

Matrix: Solid

Analyzed

12/13/22 15:25

Lab Sample ID: 890-3613-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000416	J	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/12/22 15:50	12/13/22 12:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 15:50	12/13/22 12:07	1
- Method: TAL SOP Total BTEX - Tot	tal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/13/22 15:44	1
Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) ((3C)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			12/13/22 10:27	1
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)						
	• •	. ,	()						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10		Qualifier U F2	RL 50.0	MDL 15.0	mg/Kg	<u>D</u>	Prepared 12/12/22 09:30	Analyzed 12/12/22 20:47	
Gasoline Range Organics		U F2		15.0		<u>D</u>			Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<15.0	U F2	50.0	15.0 15.0	mg/Kg	<u>D</u>	12/12/22 09:30	12/12/22 20:47	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<15.0 <15.0	U F2 U	50.0	15.0 15.0	mg/Kg	<u>D</u>	12/12/22 09:30 12/12/22 09:30	12/12/22 20:47	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<15.0 <15.0 <15.0	U F2 U	50.0 50.0 50.0	15.0 15.0	mg/Kg	<u>D</u>	12/12/22 09:30 12/12/22 09:30 12/12/22 09:30	12/12/22 20:47 12/12/22 20:47 12/12/22 20:47	1 1

Client Sample ID: S-1

Date Collected: 12/07/22 13:59 Date Received: 12/08/22 16:58

Sample Depth: 2'

Analyte

Chloride

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Toluene	0.00106	J	0.00198	0.000451	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Ethylbenzene	0.000665	J	0.00198	0.000559	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
o-Xylene	< 0.000341	U	0.00198	0.000341	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/12/22 15:50	12/13/22 12:28	

RL

5.05

MDL Unit

0.399 mg/Kg

D

Prepared

Matrix: Solid

Lab Sample ID: 890-3613-2

Lab Sample ID: 890-3613-3

Matrix: Solid

Job ID: 890-3613-1

Client: Talon/LPE Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-1

Date Collected: 12/07/22 13:59 Date Received: 12/08/22 16:58

Sample Depth: 2'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	12/12/22 15:50	12/13/22 12:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation			
I MELITOU. TAL SUPTOLAL DIEX - TOLAL DIEX CALCUIALION	Mothod: TAL COD	Total DTEV Total	DTEV Coloulation
	Metriod, TAL SUP	TOTAL DIEV - TOTAL	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00173 J	0.00396	0.00100 mg/Kg			12/13/22 15:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	359	49.9	15.0 mg/Kg			12/13/22 10:27	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1
Diesel Range Organics (Over C10-C28)	258	В	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1
Oll Range Organics (Over C28-C36)	79.2	В	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/12/22 09:30	12/13/22 02:17	1
o-Terphenyl	115		70 - 130	12/12/22 09:30	12/13/22 02:17	1

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	401		4.97	0.393	mg/Kg			12/13/22 15:47	1

Client Sample ID: S-1

Date Collected: 12/07/22 14:02

Date Received: 12/08/22 16:58

Sample Depth: 3'R

Method: SW846 8021B - Volati	ie Organic Comp	ounas (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
o-Xylene	0.000692	J	0.00199	0.000342	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/12/22 15:50	12/13/22 12:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 15:50	12/13/22 12:48	1

Mothod: T	AI SUD:	Total RTEY	- Total RT	FX Calculation

motilou. IAL COI Total BILA	Total BTEX Galoalation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100 U	0.00398	0.00100 mg/Kg			12/13/22 15:44	1

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-1

Date Collected: 12/07/22 14:02 Date Received: 12/08/22 16:58

Sample Depth: 3'R

Lab Sample ID: 890-3613-3 **Matrix: Solid**

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed 49.9 15.0 12/13/22 10:27 **Total TPH** 189 mg/Kg Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Gasoline Range Organics 49.9 15.0 12/12/22 09:30 12/13/22 03:23 26.6 J mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 49.9 12/12/22 09:30 12/13/22 03:23 122 B 15.0 mg/Kg C10-C28) **Oll Range Organics (Over** 40.7 JB 49.9 15.0 mg/Kg 12/12/22 09:30 12/13/22 03:23 C28-C36) %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1-Chlorooctane 122 70 - 130 12/12/22 09:30 12/13/22 03:23

Method: MCAWW 300.0 - Anions, Ion (Chromatography - Solu	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

5.00

0.395 mg/Kg

Client Sample ID: S-2 Lab Sample ID: 890-3613-4 Date Collected: 12/07/22 14:07

324

Date Received: 12/08/22 16:58

Chloride

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Toluene	< 0.000455	U	0.00200	0.000455	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/12/22 15:50	12/13/22 13:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/12/22 15:50	12/13/22 13:09	1
Method: TAL SOP Total BTEX - 7 Analyte	Result	Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
		Qualifier	RL 0.00399	MDL 0.00101	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/13/22 15:44	Dil Fac
Analyte	<0.00101	Qualifier U	0.00399			<u>D</u>	Prepared		
Analyte Total BTEX	Result <0.00101	Qualifier U	0.00399	0.00101		D	Prepared Prepared		
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00101	Qualifier U ics (DRO) (Qualifier	0.00399 GC)	0.00101 MDL	mg/Kg		<u> </u>	12/13/22 15:44	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00101 el Range Organ Result 43.3	Qualifier U ics (DRO) ((Qualifier J	0.00399 GC) RL 50.0	0.00101 MDL	mg/Kg		<u> </u>	12/13/22 15:44 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00101 el Range Organ Result 43.3 sel Range Orga	Qualifier U ics (DRO) ((Qualifier J	0.00399 GC) RL 50.0	0.00101 MDL 15.0	mg/Kg		<u> </u>	12/13/22 15:44 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00101 el Range Organ Result 43.3 sel Range Orga	Qualifier U ics (DRO) (Qualifier J anics (DRO) Qualifier	0.00399 GC) RL 50.0	0.00101 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	12/13/22 15:44 Analyzed 12/13/22 10:27	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result 43.3 sel Range Organ Result 43.3 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier J anics (DRO) Qualifier J	0.00399 GC) RL 50.0 (GC) RL	0.00101 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	12/13/22 15:44 Analyzed 12/13/22 10:27 Analyzed	Dil Fac

Eurofins Carlsbad

12/13/22 15:54

Matrix: Solid

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-2

Date Collected: 12/07/22 14:07 Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

Lab Sample ID: 890-3613-4	

Matrix: Solid

Dil Fac Prepared Analyzed

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100	70 - 130	12/12/22 09:30	12/12/22 21:53	1
o-Terphenyl	111	70 - 130	12/12/22 09:30	12/12/22 21:53	1
Method: MCAWW 300.0 - Anion	s, Ion Chromatogra	aphy - Soluble			

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 72.3 4.98 0.393 mg/Kg 12/13/22 16:01

Client Sample ID: S-2 Lab Sample ID: 890-3613-5 Date Collected: 12/07/22 14:09 **Matrix: Solid**

Date Received: 12/08/22 16:58

Released to Imaging: 11/30/2023 7:57:02 AM

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 13:30	-
Toluene	< 0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 15:50	12/13/22 13:30	
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 15:50	12/13/22 13:30	
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:30	
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 15:50	12/13/22 13:30	
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 _ 130				12/12/22 15:50	12/13/22 13:30	
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 15:50	12/13/22 13:30	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/13/22 15:44	
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TDU	47.4		· _		malka	— <u> </u>			
Total TPH	17.4	J	50.0		mg/Kg	=		12/13/22 10:27	
· '''			50.0		mg/Kg	_ =			
Total TPH Method: SW846 8015B NM - Dies Analyte	sel Range Orga		50.0				Prepared		Dil Fa
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)	15.0				12/13/22 10:27	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	15.0 MDL 15.0	Unit		Prepared	12/13/22 10:27 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <15.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	15.0 MDL 15.0 15.0	Unit mg/Kg		Prepared 12/12/22 09:30	12/13/22 10:27 Analyzed 12/12/22 22:15	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <15.0 17.4	nics (DRO) Qualifier U JB	50.0 (GC) RL 50.0 50.0	15.0 MDL 15.0 15.0	Unit mg/Kg mg/Kg		Prepared 12/12/22 09:30 12/12/22 09:30	12/13/22 10:27 Analyzed 12/12/22 22:15 12/12/22 22:15	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <15.0 17.4 <15.0	nics (DRO) Qualifier U JB	50.0 (GC) RL 50.0 50.0 50.0	15.0 MDL 15.0 15.0	Unit mg/Kg mg/Kg		Prepared 12/12/22 09:30 12/12/22 09:30 12/12/22 09:30	Analyzed 12/12/22 22:15 12/12/22 22:15 12/12/22 22:15	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	nics (DRO) Qualifier U JB	50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>	15.0 MDL 15.0 15.0	Unit mg/Kg mg/Kg		Prepared 12/12/22 09:30 12/12/22 09:30 12/12/22 09:30 Prepared	Analyzed 12/12/22 22:15 12/12/22 22:15 12/12/22 22:15 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <15.0 17.4 <15.0	U Qualifier U Qualifier S1+	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	Unit mg/Kg mg/Kg		Prepared 12/12/22 09:30 12/12/22 09:30 12/12/22 09:30 Prepared 12/12/22 09:30	Analyzed 12/12/22 22:15 12/12/22 22:15 12/12/22 22:15 Analyzed 12/12/22 22:15	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	U Qualifier U Qualifier S1+	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	Unit mg/Kg mg/Kg mg/Kg		Prepared 12/12/22 09:30 12/12/22 09:30 12/12/22 09:30 Prepared 12/12/22 09:30	Analyzed 12/12/22 22:15 12/12/22 22:15 12/12/22 22:15 Analyzed 12/12/22 22:15	

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-2

Date Collected: 12/07/22 14:11 Date Received: 12/08/22 16:58

Sample Depth: 3'R

Lab	Sample	ID:	890-3613-6	
			Matrix: Solid	

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
o-Xylene	< 0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/12/22 15:50	12/13/22 13:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/12/22 15:50	12/13/22 13:51	1

	Method: TAL SOP Total BTEX - Total	I BTEX Cald	culation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/13/22 15:44	1

Method: SW846 8015 NM - Diesel Ra	nge Organi	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.2	J	50.0	15.0	mg/Kg			12/13/22 10:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	12/12/22 09:30	12/12/22 22:37	1
o-Terphenyl	140	S1+	70 - 130	12/12/22 09:30	12/12/22 22:37	1

method: mcAvvv 500.0 - Anions, ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	60.0		4.95	0.391	mg/Kg			12/13/22 16:30	1

Client Sample ID: S-3 Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14 Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Ethylbenzene	< 0.000567	U	0.00201	0.000567	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/12/22 15:50	12/13/22 14:11	

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Matrix: Solid

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-3 Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14

Date Received: 12/08/22 16:58

Matrix: Solid

Sample Depth: 0-0.5'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	12/12/22 15:50	12/13/22 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101 U	0.00402	0.00101 mg/Kg			12/13/22 15:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<14.9	U	49.8	14.9	ma/Ka			12/13/22 10:27	1	

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Surrogate	%Recovery	Qualifier	l imite				Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	12/12/22 09:30	12/12/22 22:59	1
o-Terphenyl	120		70 - 130	12/12/22 09:30	12/12/22 22:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	39.8		5.01	0.396	mg/Kg			12/13/22 16:37	1

Client Sample ID: S-3 Lab Sample ID: 890-3613-8

Date Collected: 12/07/22 14:17 Date Received: 12/08/22 16:58

Sample Depth: 2'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Toluene	< 0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/12/22 15:50	12/13/22 14:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/12/22 15:50	12/13/22 14:32	1

Method: TAI	SOP Total BTFX	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00101	U	0.00398	0.00101	ma/Ka			12/13/22 15:44	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.5	J	49.9	15.0	mg/Kg			12/13/22 10:27	1

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Matrix: Solid

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-3

Da Date Received: 12/08/22 16:58

Sample Depth: 2'

Client Sample ID: S-3	Lab Sample ID: 890-3613-8
Pate Collected: 12/07/22 14:17	Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	16.5	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
C10-C28)									
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/12/22 09:30	12/12/22 23:21	1
o-Terphenyl	118		70 - 130				12/12/22 09:30	12/12/22 23:21	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		5.04	0.398	mg/Kg			12/13/22 16:44	1

Client Sample ID: S-3 Lab Sample ID: 890-3613-9 Date Collected: 12/07/22 14:19 Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Toluene	< 0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Ethylbenzene	< 0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/12/22 15:50	12/13/22 14:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/12/22 15:50	12/13/22 14:52	1
The state of the second	el Range Organ	ics (DRO) (0	GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0		49.9	15.0	mg/Kg			12/13/22 10:27	1
Method: SW846 8015B NM - Dies		inics (DRO) Qualifier	(GC)	MDL	11-14	D	Drawayad	Amalumad	Dil Fac
Analyte							Prepared	Analyzed	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	1
	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	
OII Range Organics (Over C28-C36)	\15.0	•							
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac

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12/12/22 23:43

12/12/22 09:30

70 - 130

119

o-Terphenyl

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-3

Date Collected: 12/07/22 14:19 Date Received: 12/08/22 16:58

Sample Depth: 3'R

Lab Sample ID: 890-3613-9

Matrix: Solid

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Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 4.99 12/13/22 16:52 Chloride 351 0.394 mg/Kg

Client Sample ID: S-4 Lab Sample ID: 890-3613-10 **Matrix: Solid**

Date Collected: 12/07/22 14:23 Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Toluene	< 0.000452	U	0.00198	0.000452	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Ethylbenzene	< 0.000561	U	0.00198	0.000561	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
o-Xylene	< 0.000341	U	0.00198	0.000341	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/12/22 15:50	12/13/22 15:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/12/22 15:50	12/13/22 15:13	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			12/13/22 15:52	1
_ _									

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.7	J	49.9	15.0	mg/Kg			12/13/22 10:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Diesel Range Organics (Over C10-C28)	17.7	JB	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				12/12/22 09:30	12/13/22 00:04	1
o-Terphenyl	125		70 - 130				12/12/22 09:30	12/13/22 00:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		5.03	0.397	mg/Kg			12/13/22 16:59	1

Matrix: Solid

Lab Sample ID: 890-3613-11

Client Sample Results

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-4

Date Collected: 12/07/22 14:27 Date Received: 12/08/22 16:58

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Toluene	< 0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Ethylbenzene	< 0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				12/12/22 16:20	12/13/22 12:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/12/22 16:20	12/13/22 12:48	1
Method: TAL SOP Total BTEX - ⁻	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/13/22 14:56	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.8		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/13/22 10:27	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			12/13/22 10:27	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/12/22 09:30	12/13/22 00:26	1
o-Terphenyl	120		70 - 130				12/12/22 09:30	12/13/22 00:26	1
Method: MCAWW 300.0 - Anions	s, Ion Chromato	graphy - So	oluble						
	·								

Client Sample ID: S-4

Date Collected: 12/07/22 14:28

Date Received: 12/08/22 16:58

Sample Depth: 3'R

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
o-Xylene	< 0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/12/22 16:20	12/13/22 13:08	

5.04

0.398 mg/Kg

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12/13/22 17:06

Lab Sample ID: 890-3613-12

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Matrix: Solid

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-4 Lab Sample ID: 890-3613-12 Matrix: Solid

Date Collected: 12/07/22 14:28 Date Received: 12/08/22 16:58

Sample Depth: 3'R

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	12/12/22 16:20	12/13/22 13:08	1

Method: TAL So	OP Total BTFX	- Total BTEX	Calculation
INICIIIOG. IAL O	JI IOLAI DILA	- IUlai DILA	Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102 U	0.00402	0.00102 mg/Kg			12/13/22 14:56	1

Mathada OMO40 0045 NM Disasi Damas Omenica (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.2	J	50.0	15.0	mg/Kg			12/13/22 10:27	1

Method: SW846 8015B NM - Diesel Range Organics (D	RO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.9	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1
Diesel Range Organics (Over C10-C28)	15.3	J B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	12/12/22 09:30	12/13/22 00:48	1
o-Terphenyl	111	70 - 130	12/12/22 09:30	12/13/22 00:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	757		4.99	0.394	mg/Kg			12/13/22 17:28	1

Client Sample ID: S-5 Lab Sample ID: 890-3613-13 Matrix: Solid

Date Collected: 12/07/22 14:35 Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/12/22 16:20	12/13/22 13:29	1
4.4.Diff	00		70 400				40/40/00 40:00	40/40/00 40:00	

4-Bromofluorobenzene (Surr)	99	70 - 130	12/12/22 16:20	12/13/22 13:29	1
1,4-Difluorobenzene (Surr)	99	70 - 130	12/12/22 16:20	12/13/22 13:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/13/22 14:56	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	142	50.0	15.0 mg/Kg			12/13/22 10:27	1

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-13 Date Collected: 12/07/22 14:35 Matrix: Solid

Date Received: 12/08/22 16:58 Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.3	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Diesel Range Organics (Over C10-C28)	73.0	В	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Oll Range Organics (Over C28-C36)	21.2	JB	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				12/12/22 09:30	12/13/22 01:32	1
o-Terphenyl	130		70 - 130				12/12/22 09:30	12/13/22 01:32	1
Method: MCAWW 300.0 - Anion	s, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-3613-14 Client Sample ID: S-5

Date Collected: 12/07/22 14:41 Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/12/22 16:20	12/13/22 13:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 16:20	12/13/22 13:49	1
Method: TAL SOP Total BTEX	· Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/13/22 14:56	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	663		49.9	15.0	mg/Kg			12/13/22 10:27	1
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
Diesel Range Organics (Over	514	В	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
C10-C28)									
Oll Range Organics (Over C28-C36)	128	В	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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12/14/2022

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-5 Lab Sample ID: 890-3613-14

Date Collected: 12/07/22 14:41 Matrix: Solid Date Received: 12/08/22 16:58

Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (G	C) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	114	70 - 130	12/12/22 09:30	12/13/22 01:54	1

Method: MCAWW 300.0 - Anions, Id	on Chromatography - Soluble
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Analyte	Result (Qualifier	KL	MDL	Unit	ט	Prepared	Analyzed	DII Fac
Chloride	359	_	5.00	0.395	mg/Kg		_	12/13/22 17:57	1

Client Sample ID: S-5 Lab Sample ID: 890-3613-15 Date Collected: 12/07/22 14:45 **Matrix: Solid**

Date Received: 12/08/22 16:58

Sample Depth: 2'

Mothod:	CM846 8024B	- Volatile Orga	nic Compounds (GC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/12/22 16:20	12/13/22 14:10	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/12/22 16:20	12/13/22 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100 U	0.00398	0.00100 mg/Kg			12/13/22 14:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	211		49.9	15.0	mg/Kg				12/13/22 10:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	29.5	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	133	В	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1
C10-C28)									
Oll Range Organics (Over	48.9	JB	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1
C28-C36)									

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	12/12/22 09:30	12/13/22 02:39	1
o-Terphenyl	109	70 - 130	12/12/22 09:30	12/13/22 02:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography	- Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		4.95	0.391	mg/Kg			12/13/22 18:04	1

Matrix: Solid

Lab Sample ID: 890-3613-16

Client Sample Results

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-5

Date Collected: 12/07/22 14:04 Date Received: 12/08/22 16:58

Sample Depth: 3'R

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/12/22 16:20	12/13/22 14:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/12/22 16:20	12/13/22 14:30	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			12/13/22 14:56	1
•				0.00101	mg/Kg			12/13/22 14:56	1
Total BTEX Method: SW846 8015 NM - Die Analyte	esel Range Organ				mg/Kg Unit	D	Prepared	12/13/22 14:56 Analyzed	
: Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)			<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Die Analyte	esel Range Organ Result 225	ics (DRO) (Qualifier	RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	esel Range Organ Result 225 iesel Range Orga	ics (DRO) (Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH	esel Range Organ Result 225 iesel Range Orga	ics (DRO) (Qualifier nnics (DRO) Qualifier	GC) RL 50.0	MDL 15.0	Unit mg/Kg	=		Analyzed 12/13/22 10:27	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Organ Result 225 iesel Range Orga Result	ics (DRO) (Qualifier unics (DRO) Qualifier J	GC) RL 50.0 (GC) RL	MDL 15.0	Unit mg/Kg	=	Prepared	Analyzed 12/13/22 10:27 Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	esel Range Organ Result 225 siesel Range Orga Result 20.5	ics (DRO) (Qualifier nnics (DRO) Qualifier J	(GC) RL 50.0 RL 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg	=	Prepared 12/12/22 09:30	Analyzed 12/13/22 10:27 Analyzed 12/13/22 03:01	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	esel Range Organ Result 225 siesel Range Orga Result 20.5	ics (DRO) (Qualifier nnics (DRO) Qualifier J B	GC) RL 50.0 (GC) RL 50.0 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/12/22 09:30 12/12/22 09:30	Analyzed 12/13/22 10:27 Analyzed 12/13/22 03:01 12/13/22 03:01	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	esel Range Organ Result 225 siesel Range Orga Result 20.5 154 50.2	ics (DRO) (Qualifier nnics (DRO) Qualifier J B	GC) RL 50.0 (GC) RL 50.0 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/12/22 09:30 12/12/22 09:30 12/12/22 09:30	Analyzed 12/13/22 10:27 Analyzed 12/13/22 03:01 12/13/22 03:01 12/13/22 03:01	•

RL

5.02

MDL Unit

0.397 mg/Kg

Prepared

Analyzed

12/13/22 18:11

Dil Fac

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Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Surrogate Summary

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3613-1	S-1	119	100	· —— —— —— —— —
890-3613-1 MS	S-1	104	98	
890-3613-1 MSD	S-1	105	99	
890-3613-2	S-1	126	102	
890-3613-3	S-1	119	100	
890-3613-4	S-2	118	105	
890-3613-5	S-2	119	100	
890-3613-6	S-2	120	99	
890-3613-7	S-3	126	104	
890-3613-8	S-3	124	99	
890-3613-9	S-3	121	101	
890-3613-10	S-4	121	96	
890-3613-11	S-4	108	91	
890-3613-12	S-4	99	86	
890-3613-13	S-5	99	99	
890-3613-14	S-5	111	100	
890-3613-15	S-5	99	90	
890-3613-16	S-5	117	96	
LCS 880-41398/1-A	Lab Control Sample	99	112	
LCS 880-41668/1-A	Lab Control Sample	96	92	
LCSD 880-41398/2-A	Lab Control Sample Dup	108	114	
LCSD 880-41668/2-A	Lab Control Sample Dup	95	97	
MB 880-41398/5-A	Method Blank	90	101	
MB 880-41668/5-A	Method Blank	106	87	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3613-1	S-1	112	126	
890-3613-1 MS	S-1	116	117	
890-3613-1 MSD	S-1	99	99	
890-3613-2	S-1	105	115	
890-3613-3	S-1	122	131 S1+	
890-3613-4	S-2	100	111	
890-3613-5	S-2	130	144 S1+	
890-3613-6	S-2	126	140 S1+	
890-3613-7	S-3	108	120	
890-3613-8	S-3	106	118	
890-3613-9	S-3	106	119	
890-3613-10	S-4	109	125	
890-3613-11	S-4	106	120	
890-3613-12	S-4	99	111	
890-3613-13	S-5	118	130	

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Surrogate Summary

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3613-14	S-5	107	114	
890-3613-15	S-5	102	109	
890-3613-16	S-5	106	115	
LCS 880-41575/2-A	Lab Control Sample	133 S1+	159 S1+	
LCSD 880-41575/3-A	Lab Control Sample Dup	131 S1+	156 S1+	
MB 880-41575/1-A	Method Blank	140 S1+	210 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41398/5-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41398

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 12:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/12/22 16:20	12/13/22 12:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/12/22 16:20	12/13/22 12:05	1

Lab Sample ID: LCS 880-41398/1-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41398

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1093		mg/Kg		109	70 - 130	
Toluene	0.100	0.09743		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09490		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09688		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-41398/2-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 41398

	Spike	LCSD I	LCSD				%Rec		RPD
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1242		mg/Kg		124	70 - 130	13	35
Toluene	0.100	0.1070		mg/Kg		107	70 - 130	9	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2297		mg/Kg		115	70 - 130	15	35
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1 4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-41668/5-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41668

	IVID	MID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 15:50	12/13/22 11:45	1

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Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-41668/5-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 15:50	12/13/22 11:45	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 15:50	12/13/22 11:45	
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 15:50	12/13/22 11:45	
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 15:50	12/13/22 11:45	

MB MB

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	70 - 130	12/12/22 15:50	12/13/22 11:45	1
1,4-Difluorobenzene (Surr)	87	70 - 130	12/12/22 15:50	12/13/22 11:45	1

Lab Sample ID: LCS 880-41668/1-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41668

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1175		mg/Kg		118	70 - 130	
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-41668/2-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41668

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	3	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	5	35
Ethylbenzene	0.100	0.09505		mg/Kg		95	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130	12	35
o-Xylene	0.100	0.09808		mg/Kg		98	70 - 130	11	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 41668

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.000416	J	0.0998	0.08393		mg/Kg		84	70 - 130
Toluene	< 0.000459	U	0.0998	0.08250		mg/Kg		83	70 - 130
Ethylbenzene	<0.000568	U	0.0998	0.08222		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.200	0.1739		mg/Kg		87	70 - 130

Job ID: 890-3613-1

Client: Talon/LPE SDG: Chaves County NM Project/Site: Big Sky ABY State 1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3613-1 MS						Client Sample ID: S-1
Matrix: Solid						Prep Type: Total/NA
Analysis Batch: 41701						Prep Batch: 41668
	Sample	Sample	Spike	MS	MS	%Rec

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	U	%Rec	Limits	
o-Xylene	<0.000346	U	0.0998	0.08792		mg/Kg	_	88	70 - 130	
	MS	MS								
• •	0/ 0	A								

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-3613-1 MSD Client Sample ID: S-1 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 41701** Prep Batch: 41668

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.000416	J	0.100	0.07966		mg/Kg		79	70 - 130	5	35
Toluene	< 0.000459	U	0.100	0.07771		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.000568	U	0.100	0.07671		mg/Kg		77	70 - 130	7	35
m-Xylene & p-Xylene	<0.00102	U	0.200	0.1619		mg/Kg		81	70 - 130	7	35
o-Xylene	<0.000346	U	0.100	0.08296		mg/Kg		83	70 - 130	6	35

m-Xylene & p-Xylene	<0.00102	U	0.200	0.1619	mg/Kg	81	70 - 130	7	35
o-Xylene	<0.000346	U	0.100	0.08296	mg/Kg	83	70 - 130	6	35
	MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1 4-Difluorobenzene (Surr)	99		70 130						

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41575/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 41559** Prep Batch: 41575

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	29.35	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1
C10-C28)									
OII Range Organics (Over C28-C36)	15.55	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1

		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	140	S1+	70 - 130	12/12/22 09:30	12/12/22 19:41	1
l	o-Terphenyl	210	S1+	70 - 130	12/12/22 09:30	12/12/22 19:41	1

Lab Sample ID: LCS 880-41575/2-A Matrix: Solid			Client Sample ID: Lab Control Sample Prep Type: Total/NA
o-Terphenyl	210 S1+	70 - 130	12/12/22 09:30 12/12/22 19:41 1
1 Omorodolario	7.70 07.	70 - 700	12.12.22.00.00 12.12.22.10.11

Analysis Batch: 41559 Prep Batch: 41575 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1000 70 - 130 Gasoline Range Organics 929.8 mg/Kg 93 (GRO)-C6-C10 1000 882.7 Diesel Range Organics (Over mg/Kg 88 70 - 130

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C10-C28)

Job ID: 890-3613-1

SDG: Chaves County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Sample Sample

Lab Sample ID: LCS 880-41575/2-A

Project/Site: Big Sky ABY State 1

Matrix: Solid

Client: Talon/LPE

Analysis Batch: 41559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41575

%Recovery Qualifier

Surrogate Limits 1-Chlorooctane 133 S1+ 70 - 130 o-Terphenyl 159 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

87

Prep Type: Total/NA

Prep Batch: 41575

Lab Sample ID: LCSD 880-41575/3-A **Matrix: Solid** Analysis Batch: 41559

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 807.2 81 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

871.3

MS MS

mg/Kg

1000

Spike

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 131 S1+ 70 - 130 1-Chlorooctane 156 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41559

Diesel Range Organics (Over

Client Sample ID: S-1 Prep Type: Total/NA

Prep Batch: 41575

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <15.0 U F2 999 1283 mg/Kg 128 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <15.0 U 999 1279 mg/Kg 128 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 116 o-Terphenyl 117 70 - 130

Lab Sample ID: 890-3613-1 MSD Client Sample ID: S-1 **Matrix: Solid**

Analysis Batch: 41559

Prep Type: Total/NA Prep Batch: 41575

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <15.0 U F2 997 971.7 F2 97 Gasoline Range Organics mg/Kg 70 - 130 28 20 (GRO)-C6-C10 Diesel Range Organics (Over <15.0 U 997 1088 mg/Kg 109 70 - 130 16 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 99 70 - 130 99 70 - 130 o-Terphenyl

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: S-1

Client Sample ID: S-1

Client Sample ID: S-4

Client Sample ID: S-4

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41569/1-A

Matrix: Solid

Analysis Batch: 41691

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL year
 Unit mg/Kg
 D mg/Kg
 Prepared
 Analyzed
 Dil Fac

Lab Sample ID: LCS 880-41569/2-A

Matrix: Solid

Analysis Batch: 41691

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 253.3 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-41569/3-A

Matrix: Solid

Analysis Batch: 41691

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.9 mg/Kg 102 90 - 110

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41691

MS MS Sample Sample Spike %Rec Added %Rec Analyte Result Qualifier Result Qualifier Unit Limits Chloride 150 253 408.2 102 90 - 110 mg/Kg

Lab Sample ID: 890-3613-1 MSD

Matrix: Solid

Analysis Batch: 41691

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 150 253 404.8 mg/Kg 101 90 - 110

Lab Sample ID: 890-3613-11 MS

Matrix: Solid

Analysis Batch: 41691

Sample Sample Spike MS MS %Rec Result Qualifier Added %Rec Analyte Result Qualifier Unit D Limits Chloride 309 252 548.2 mg/Kg 95 90 - 110

Lab Sample ID: 890-3613-11 MSD

Matrix: Solid

Analysis Batch: 41691

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit %Rec Chloride 309 252 550.3 mg/Kg 96 90 - 110 20

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Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

GC VOA

Prep Batch: 41398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-11	S-4	Total/NA	Solid	5035	
890-3613-12	S-4	Total/NA	Solid	5035	
890-3613-13	S-5	Total/NA	Solid	5035	
890-3613-14	S-5	Total/NA	Solid	5035	
890-3613-15	S-5	Total/NA	Solid	5035	
890-3613-16	S-5	Total/NA	Solid	5035	
MB 880-41398/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41398/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41398/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 41668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	5035	
890-3613-2	S-1	Total/NA	Solid	5035	
890-3613-3	S-1	Total/NA	Solid	5035	
890-3613-4	S-2	Total/NA	Solid	5035	
890-3613-5	S-2	Total/NA	Solid	5035	
890-3613-6	S-2	Total/NA	Solid	5035	
890-3613-7	S-3	Total/NA	Solid	5035	
890-3613-8	S-3	Total/NA	Solid	5035	
890-3613-9	S-3	Total/NA	Solid	5035	
890-3613-10	S-4	Total/NA	Solid	5035	
MB 880-41668/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3613-1 MS	S-1	Total/NA	Solid	5035	
890-3613-1 MSD	S-1	Total/NA	Solid	5035	

Analysis Batch: 41701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8021B	41668
890-3613-2	S-1	Total/NA	Solid	8021B	41668
890-3613-3	S-1	Total/NA	Solid	8021B	41668
890-3613-4	S-2	Total/NA	Solid	8021B	41668
890-3613-5	S-2	Total/NA	Solid	8021B	41668
890-3613-6	S-2	Total/NA	Solid	8021B	41668
890-3613-7	S-3	Total/NA	Solid	8021B	41668
890-3613-8	S-3	Total/NA	Solid	8021B	41668
890-3613-9	S-3	Total/NA	Solid	8021B	41668
890-3613-10	S-4	Total/NA	Solid	8021B	41668
MB 880-41668/5-A	Method Blank	Total/NA	Solid	8021B	41668
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	8021B	41668
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41668
890-3613-1 MS	S-1	Total/NA	Solid	8021B	41668
890-3613-1 MSD	S-1	Total/NA	Solid	8021B	41668

Analysis Batch: 41704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-11	S-4	Total/NA	Solid	8021B	41398
890-3613-12	S-4	Total/NA	Solid	8021B	41398
890-3613-13	S-5	Total/NA	Solid	8021B	41398

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Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

GC VOA (Continued)

Analysis Batch: 41704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-14	S-5	Total/NA	Solid	8021B	41398
890-3613-15	S-5	Total/NA	Solid	8021B	41398
890-3613-16	S-5	Total/NA	Solid	8021B	41398
MB 880-41398/5-A	Method Blank	Total/NA	Solid	8021B	41398
LCS 880-41398/1-A	Lab Control Sample	Total/NA	Solid	8021B	41398
LCSD 880-41398/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41398

Analysis Batch: 41762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	Total BTEX	-
890-3613-2	S-1	Total/NA	Solid	Total BTEX	
890-3613-3	S-1	Total/NA	Solid	Total BTEX	
890-3613-4	S-2	Total/NA	Solid	Total BTEX	
890-3613-5	S-2	Total/NA	Solid	Total BTEX	
890-3613-6	S-2	Total/NA	Solid	Total BTEX	
890-3613-7	S-3	Total/NA	Solid	Total BTEX	
890-3613-8	S-3	Total/NA	Solid	Total BTEX	
890-3613-9	S-3	Total/NA	Solid	Total BTEX	
890-3613-10	S-4	Total/NA	Solid	Total BTEX	
890-3613-11	S-4	Total/NA	Solid	Total BTEX	
890-3613-12	S-4	Total/NA	Solid	Total BTEX	
890-3613-13	S-5	Total/NA	Solid	Total BTEX	
890-3613-14	S-5	Total/NA	Solid	Total BTEX	
890-3613-15	S-5	Total/NA	Solid	Total BTEX	
890-3613-16	S-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 41559

Released to Imaging: 11/30/2023 7:57:02 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8015B NM	41575
890-3613-2	S-1	Total/NA	Solid	8015B NM	41575
390-3613-3	S-1	Total/NA	Solid	8015B NM	41575
390-3613-4	S-2	Total/NA	Solid	8015B NM	41575
390-3613-5	S-2	Total/NA	Solid	8015B NM	41575
390-3613-6	S-2	Total/NA	Solid	8015B NM	41575
390-3613-7	S-3	Total/NA	Solid	8015B NM	41575
390-3613-8	S-3	Total/NA	Solid	8015B NM	41575
390-3613-9	S-3	Total/NA	Solid	8015B NM	41575
390-3613-10	S-4	Total/NA	Solid	8015B NM	41575
390-3613-11	S-4	Total/NA	Solid	8015B NM	41575
390-3613-12	S-4	Total/NA	Solid	8015B NM	41575
390-3613-13	S-5	Total/NA	Solid	8015B NM	41575
390-3613-14	S-5	Total/NA	Solid	8015B NM	41575
390-3613-15	S-5	Total/NA	Solid	8015B NM	41575
390-3613-16	S-5	Total/NA	Solid	8015B NM	41575
MB 880-41575/1-A	Method Blank	Total/NA	Solid	8015B NM	41575
.CS 880-41575/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41575
CSD 880-41575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41575
390-3613-1 MS	S-1	Total/NA	Solid	8015B NM	41575
390-3613-1 MSD	S-1	Total/NA	Solid	8015B NM	41575

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Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

GC Semi VOA

Prep Batch: 41575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8015NM Prep	
890-3613-2	S-1	Total/NA	Solid	8015NM Prep	
890-3613-3	S-1	Total/NA	Solid	8015NM Prep	
890-3613-4	S-2	Total/NA	Solid	8015NM Prep	
890-3613-5	S-2	Total/NA	Solid	8015NM Prep	
890-3613-6	S-2	Total/NA	Solid	8015NM Prep	
890-3613-7	S-3	Total/NA	Solid	8015NM Prep	
890-3613-8	S-3	Total/NA	Solid	8015NM Prep	
890-3613-9	S-3	Total/NA	Solid	8015NM Prep	
890-3613-10	S-4	Total/NA	Solid	8015NM Prep	
890-3613-11	S-4	Total/NA	Solid	8015NM Prep	
890-3613-12	S-4	Total/NA	Solid	8015NM Prep	
890-3613-13	S-5	Total/NA	Solid	8015NM Prep	
890-3613-14	S-5	Total/NA	Solid	8015NM Prep	
890-3613-15	S-5	Total/NA	Solid	8015NM Prep	
890-3613-16	S-5	Total/NA	Solid	8015NM Prep	
MB 880-41575/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41575/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3613-1 MS	S-1	Total/NA	Solid	8015NM Prep	
890-3613-1 MSD	S-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3613-1	S-1	Total/NA	Solid	8015 NM	
890-3613-2	S-1	Total/NA	Solid	8015 NM	
890-3613-3	S-1	Total/NA	Solid	8015 NM	
890-3613-4	S-2	Total/NA	Solid	8015 NM	
890-3613-5	S-2	Total/NA	Solid	8015 NM	
890-3613-6	S-2	Total/NA	Solid	8015 NM	
890-3613-7	S-3	Total/NA	Solid	8015 NM	
890-3613-8	S-3	Total/NA	Solid	8015 NM	
890-3613-9	S-3	Total/NA	Solid	8015 NM	
890-3613-10	S-4	Total/NA	Solid	8015 NM	
890-3613-11	S-4	Total/NA	Solid	8015 NM	
890-3613-12	S-4	Total/NA	Solid	8015 NM	
890-3613-13	S-5	Total/NA	Solid	8015 NM	
890-3613-14	S-5	Total/NA	Solid	8015 NM	
890-3613-15	S-5	Total/NA	Solid	8015 NM	
890-3613-16	S-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41569

Lab Sample ID 890-3613-1	Client Sample ID S-1	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3613-2	S-1	Soluble	Solid	DI Leach	
890-3613-3	S-1	Soluble	Solid	DI Leach	
890-3613-4	S-2	Soluble	Solid	DI Leach	
890-3613-5	S-2	Soluble	Solid	DI Leach	
890-3613-6	S-2	Soluble	Solid	DI Leach	

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

HPLC/IC (Continued)

Leach Batch: 41569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-7	S-3	Soluble	Solid	DI Leach	_
890-3613-8	S-3	Soluble	Solid	DI Leach	
890-3613-9	S-3	Soluble	Solid	DI Leach	
890-3613-10	S-4	Soluble	Solid	DI Leach	
890-3613-11	S-4	Soluble	Solid	DI Leach	
890-3613-12	S-4	Soluble	Solid	DI Leach	
890-3613-13	S-5	Soluble	Solid	DI Leach	
890-3613-14	S-5	Soluble	Solid	DI Leach	
890-3613-15	S-5	Soluble	Solid	DI Leach	
890-3613-16	S-5	Soluble	Solid	DI Leach	
MB 880-41569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3613-1 MS	S-1	Soluble	Solid	DI Leach	
890-3613-1 MSD	S-1	Soluble	Solid	DI Leach	
890-3613-11 MS	S-4	Soluble	Solid	DI Leach	
890-3613-11 MSD	S-4	Soluble	Solid	DI Leach	

Analysis Batch: 41691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3613-1	S-1	Soluble	Solid	300.0	4156
890-3613-2	S-1	Soluble	Solid	300.0	4156
890-3613-3	S-1	Soluble	Solid	300.0	4156
890-3613-4	S-2	Soluble	Solid	300.0	4156
890-3613-5	S-2	Soluble	Solid	300.0	4156
890-3613-6	S-2	Soluble	Solid	300.0	4156
890-3613-7	S-3	Soluble	Solid	300.0	4156
890-3613-8	S-3	Soluble	Solid	300.0	4156
890-3613-9	S-3	Soluble	Solid	300.0	4156
890-3613-10	S-4	Soluble	Solid	300.0	4156
890-3613-11	S-4	Soluble	Solid	300.0	4156
890-3613-12	S-4	Soluble	Solid	300.0	4156
890-3613-13	S-5	Soluble	Solid	300.0	4156
890-3613-14	S-5	Soluble	Solid	300.0	4156
890-3613-15	S-5	Soluble	Solid	300.0	4156
890-3613-16	S-5	Soluble	Solid	300.0	4156
MB 880-41569/1-A	Method Blank	Soluble	Solid	300.0	4156
LCS 880-41569/2-A	Lab Control Sample	Soluble	Solid	300.0	4156
LCSD 880-41569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4156
890-3613-1 MS	S-1	Soluble	Solid	300.0	4156
890-3613-1 MSD	S-1	Soluble	Solid	300.0	4156
890-3613-11 MS	S-4	Soluble	Solid	300.0	4156
890-3613-11 MSD	S-4	Soluble	Solid	300.0	4156

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Project/Site: Big Sky ABY State 1 Client Sample ID: S-1

Lab Sample ID: 890-3613-1

Matrix: Solid

Date Collected: 12/07/22 13:53 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 20:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:25	CH	EET MID

Client Sample ID: S-1 Lab Sample ID: 890-3613-2 Matrix: Solid

Date Collected: 12/07/22 13:59

Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 02:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:47	CH	EET MID

Client Sample ID: S-1 Lab Sample ID: 890-3613-3

Date Collected: 12/07/22 14:02 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:54	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-2

Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07

Date Received: 12/08/22 16:58

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 21:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:01	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 890-3613-5

Date Collected: 12/07/22 14:09 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:08	CH	EET MID

Client Sample ID: S-2

Date Collected: 12/07/22 14:11

Lab Sample ID: 890-3613-6

Matrix: Solid

Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:30	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	41575 41559	12/12/22 09:30 12/12/22 22:59	DM SM	EET MID EET MID

Eurofins Carlsbad

2

3

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6

0

Matrix: Solid

10

12

14

Matrix: Solid

Job ID: 890-3613-1

Client: Talon/LPE Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-3 Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14 Matrix: Solid Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:37	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 890-3613-8

Date Collected: 12/07/22 14:17 **Matrix: Solid**

Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 23:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:44	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 890-3613-9

Date Collected: 12/07/22 14:19 **Matrix: Solid** Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 23:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:52	CH	EET MID

Client Sample ID: S-4 Lab Sample ID: 890-3613-10

Date Collected: 12/07/22 14:23 **Matrix: Solid** Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 00:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:59	CH	EET MID

Job ID: 890-3613-1

12/12/22 08:34

12/13/22 17:28

KS

СН

EET MID

EET MID

Client: Talon/LPE Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-4 Lab Sample ID: 890-3613-11

Date Collected: 12/07/22 14:27 Matrix: Solid Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:06	CH	EET MID

Lab Sample ID: 890-3613-12 Client Sample ID: S-4

Date Collected: 12/07/22 14:28 **Matrix: Solid** Date Received: 12/08/22 16:58

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 41398 Total/NA 4.97 g 5 mL 12/12/22 16:20 MNR EET MID Total/NA 8021B 5 mL 12/13/22 13:08 **EET MID** Analysis 1 5 mL 41704 MNR Total/NA Total BTEX 41762 12/13/22 14:56 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 41725 12/13/22 10:27 SM **EET MID** Total/NA 41575 Prep 8015NM Prep 10.00 g 10 mL 12/12/22 09:30 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 41559 12/13/22 00:48 SM **EET MID**

Client Sample ID: S-5 Lab Sample ID: 890-3613-13 Date Collected: 12/07/22 14:35 **Matrix: Solid**

5.01 g

50 mL

50 mL

50 mL

41569

41691

Date Received: 12/08/22 16:58

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 01:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:35	CH	EET MID

Lab Sample ID: 890-3613-14 Client Sample ID: S-5

Date Collected: 12/07/22 14:41 **Matrix: Solid** Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID

Lab Chronicle

Client: Talon/LPE Job ID: 890-3613-1 Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-14

Matrix: Solid

Date Collected: 12/07/22 14:41 Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 01:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:57	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 890-3613-15

Date Collected: 12/07/22 14:45 **Matrix: Solid**

Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 18:04	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 890-3613-16

Date Collected: 12/07/22 14:04 **Matrix: Solid** Date Received: 12/08/22 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 18:11	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-3613-1
Project/Site: Big Sky ABY State 1 SDG: Chaves County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	• '	,	od by the governing datherty. The list his	ay molade analytes for w
the agency does not of Analysis Method	• '	Matrix	Analyte	ay morade analytes for w
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: Talon/LPE

Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1

SDG: Chaves County NM

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Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

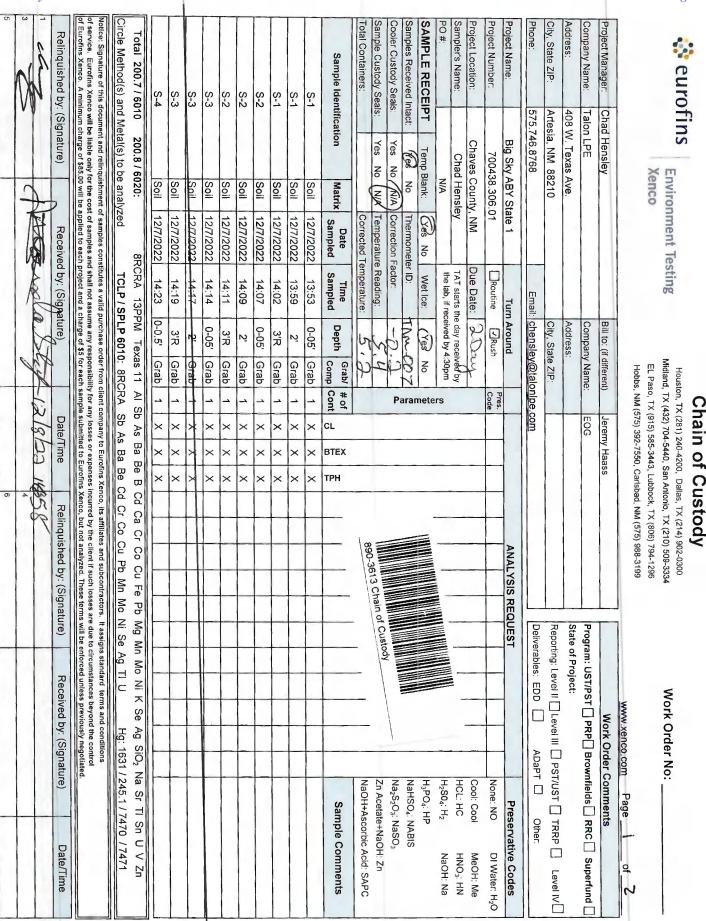
Client: Talon/LPE

Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1

SDG: Chaves County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3613-1	S-1	Solid	12/07/22 13:53	12/08/22 16:58	0-0.5'
890-3613-2	S-1	Solid	12/07/22 13:59	12/08/22 16:58	2'
890-3613-3	S-1	Solid	12/07/22 14:02	12/08/22 16:58	3'R
890-3613-4	S-2	Solid	12/07/22 14:07	12/08/22 16:58	0-0.5'
890-3613-5	S-2	Solid	12/07/22 14:09	12/08/22 16:58	2'
890-3613-6	S-2	Solid	12/07/22 14:11	12/08/22 16:58	3'R
890-3613-7	S-3	Solid	12/07/22 14:14	12/08/22 16:58	0-0.5'
890-3613-8	S-3	Solid	12/07/22 14:17	12/08/22 16:58	2'
890-3613-9	S-3	Solid	12/07/22 14:19	12/08/22 16:58	3'R
890-3613-10	S-4	Solid	12/07/22 14:23	12/08/22 16:58	0-0.5'
890-3613-11	S-4	Solid	12/07/22 14:27	12/08/22 16:58	2'
890-3613-12	S-4	Solid	12/07/22 14:28	12/08/22 16:58	3'R
890-3613-13	S-5	Solid	12/07/22 14:35	12/08/22 16:58	0-0.5'
890-3613-14	S-5	Solid	12/07/22 14:41	12/08/22 16:58	1'
890-3613-15	S-5	Solid	12/07/22 14:45	12/08/22 16:58	2'
890-3613-16	S-5	Solid	12/07/22 14:04	12/08/22 16:58	3'R



Revised Date: 08/25/2020 Rev. 2020.

eurofins 🔆

Xenco

Environment Testing

Project Number: Project Name:

Chaves County, NM 700438.306.01

Pres.

ANALYSIS REQUEST

Deliverables: EDD

ADaPT []

Other

None: NO

DI Water: H₂O

Preservative Codes

City, State ZIP:

575.746.8768

Email: chensley@talonlpe.com

City, State ZIP:

Bill to: (if different)

Company Name:

EOG Jeremy Haass

Big Sky ABY State 1

Company Name:

408 W. Texas Ave. Talon LPE Chad Hensley

Artesia, NM 88210

13

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-:

-3334	Work Orger No:	
3199		
	www.xenco.com Page 6 of 6	
	Work Order Comments	
	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	
	State of Project:	
	Reporting: Level II Level III PST/UST TRRP Level IV	

Revised Date: 08/25/2020 Rev. 2020.2	Re	0							
		4			0			3	N
		358	11 eels LC	1	Fife	do x			chy
Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time		е)	Received by: (Signature)	Received	ture)	Relinquished by: (Signature)
	s standard terms and conditions ircumstances beyond the control forced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	company to Eurofins Xei iny losses or expenses i e submitted to Eurofins	client o ity for a h sample	hase order from any responsibil ge of \$5 for each	itutes a valld purc shall not assume project and a chan	of samples const t of samples and applied to each p	and relinquishment able only for the cos	e: Signature of this document vice. Eurofins Xenco will be lirofins Xenco. A minimum char
7470 / 7471	Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	Be Cd Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be C	111	6010: 8R	TCLP / SPLP 6010: 8RCRA	zed	i(s) to be analy	Circle Method(s) and Metal(s) to be analyzed
Sn U V Zn	K Se	Cd Ca Cr Co Cu Fe Pb Mg Mr	Al Sb As Ba Be B		Texas 11	8RCRA 13PPM Texas 11	8R	200.8 / 6020:	Total 200.7 / 6010 2
			×	_	3'R Grab	14:04	12/7/2022	Soil	S-5
			×	_	2' Grab	14:45	12/7/2022	Soil	S-5
			×	-7	1' Grab	14:41	12/7/2022	Soil	S-5
			×		0-0.5' Grab	14:35 C	12/7/2022	Soil	S-5
			×		3'R Grab	14:28	12/7/2022	Soil	S-4
			×	_	2' Grab	14:27	12/7/2022	Soil	S-4
Sample Comments	Sar		CL BTEX TPH	# of Cont	Depth Comp	Time E	Date Sampled	n Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+A					mperature:	Corrected Temperature:	1	Total Containers:
Zn Acetate+NaOH: Zn	Zn Aceta			_		Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
NaSO ₃	Na ₂ S ₂ O ₃ : NaSO ₃			Pa		etor:	Correction Factor:	Yes No N/A	Cooler Custody Seals:
NABIS	NaHSO ₄ : NABIS			aran			Thermometer	Yes No	Samples Received Intact:
Ð	H₃PO₄: HP			nete	Yes No	Wetice	Yes No	Temp Blank:	SAMPLE RECEIPT
2 NaOH: Na	H ₂ S0 ₄ : H ₂			rs	ed by 4:30pm	the lab, if received by 4:30pm		N/A	PO#:
HNO ₃ : HN	HCL: HC				ay received by	TAT starts the day received by		Chad Hensley	
ol MeOH: Me	Cool: Cool					Due Date:		Chaves County, NM	Project Location:

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3613-1

SDG Number: Chaves County NM

Login Number: 3613 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3613-1 SDG Number: Chaves County NM

Login Number: 3613 List Source: Eurofins Midland List Number: 2

List Creation: 12/12/22 08:01 AM Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Generated 1/9/2023 2:23:53 PM

JOB DESCRIPTION

BIG SKY ABY STATE #1 SDG NUMBER Lea County

JOB NUMBER

890-3742-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/9/2023 2:23:53 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Talon/LPE Laboratory Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

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Definitions/Glossary

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HDI C/IC	

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS **Practical Quantitation Limit** PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count TNTC

Case Narrative

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

Job ID: 890-3742-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3742-1

Receipt

The samples were received on 12/30/2022 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-6 (890-3742-1), S-7 (890-3742-2), S-8 (890-3742-3), SW-1 (890-3742-4), SW-2 (890-3742-5), SW-3 (890-3742-6) and SW-4 (890-3742-7).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The method blank for preparation batch 880-43132 and analytical batch 880-43193 contained Diesel Range Organics (Over C10-C28) and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Talon/LPE Job ID: 890-3742-1

Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: S-6 Lab Sample ID: 890-3742-1 Date Collected: 12/29/22 11:28 Date Received: 12/30/22 11:30

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/05/23 13:12	01/06/23 20:16	
Toluene	< 0.000453	U	0.00199	0.000453	mg/Kg		01/05/23 13:12	01/06/23 20:16	
Ethylbenzene	< 0.000562	U	0.00199	0.000562	mg/Kg		01/05/23 13:12	01/06/23 20:16	
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/05/23 13:12	01/06/23 20:16	
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		01/05/23 13:12	01/06/23 20:16	
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/05/23 13:12	01/06/23 20:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130				01/05/23 13:12	01/06/23 20:16	
1,4-Difluorobenzene (Surr)	98		70 - 130				01/05/23 13:12	01/06/23 20:16	
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/09/23 11:44	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result 18.6		RL 49.9		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/06/23 11:39	
Total TPH Method: SW846 8015B NM - Dies	18.6 sel Range Orga	J nics (DRO)	49.9 (GC)	15.0	mg/Kg		· ·	01/06/23 11:39	
Total TPH Method: SW846 8015B NM - Dies Analyte	18.6 sel Range Orga Result	J nics (DRO) Qualifier	49.9 (GC)	15.0 MDL	mg/Kg	<u>D</u>	Prepared	01/06/23 11:39 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	18.6 sel Range Orga	J nics (DRO) Qualifier	49.9 (GC)	15.0 MDL	mg/Kg		· ·	01/06/23 11:39	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	18.6 sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)	15.0 MDL 15.0	mg/Kg		Prepared	01/06/23 11:39 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	18.6 sel Range Orga Result <15.0	nics (DRO) Qualifier U	49.9 (GC) RL 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg		Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:25	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	18.6 sel Range Orga Result <15.0 18.6	nics (DRO) Qualifier U JB	49.9 (GC) RL 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:25 01/05/23 12:25	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	18.6 sel Range Orga Result <15.0 18.6 <15.0	nics (DRO) Qualifier U JB	49.9 (GC) RL 49.9 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:25 01/05/23 12:25	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	18.6 sel Range Orga Result <15.0 18.6 <15.0 %Recovery 117	nics (DRO) Qualifier U JB	49.9 (GC) RL 49.9 49.9 49.9 Limits	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared	O1/06/23 11:39 Analyzed O1/05/23 12:25 O1/05/23 12:25 Analyzed	Dil Fa
<u> </u>	18.6 sel Range Orga Result <15.0 18.6 <15.0 %Recovery 117 136	J nics (DRO) Qualifier U J B U Qualifier S1+	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:25 01/05/23 12:25 Analyzed 01/05/23 12:25	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	18.6 sel Range Orga Result <15.0 18.6 <15.0 %Recovery 117 136 s, Ion Chromato	J nics (DRO) Qualifier U J B U Qualifier S1+	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:25 01/05/23 12:25 Analyzed 01/05/23 12:25	Dil Fac

Client Sample ID: S-7 Lab Sample ID: 890-3742-2 Date Collected: 12/29/22 11:35 **Matrix: Solid**

Date Received: 12/30/22 11:30

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Toluene	< 0.000457	U	0.00200	0.000457	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Ethylbenzene	< 0.000566	U	0.00200	0.000566	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
o-Xylene	< 0.000345	U	0.00200	0.000345	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/06/23 10:37	01/07/23 18:07	

Eurofins Carlsbad

Released to Imaging: 11/30/2023 7:57:02 AM

Lab Sample ID: 890-3742-2

Job ID: 890-3742-1

Client: Talon/LPE Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: S-7

Date Collected: 12/29/22 11:35 Date Received: 12/30/22 11:30

Sample Depth: 5

Method: SW846 8021B -	Volatile Organic	Compounds (GC)	(Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106	70 - 130	01/06/23 10:37	01/07/23 18:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 11:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	175		49.8	14.9	mg/Kg			01/06/23 11:39	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.8	J	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1
Diesel Range Organics (Over C10-C28)	117	В	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1
Oll Range Organics (Over C28-C36)	31.1	JB	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/04/23 09:27	01/05/23 12:46	1
o-Terphenyl	152	S1+	70 - 130	01/04/23 09:27	01/05/23 12:46	1

Analyte	Result Qualifie		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123	5.01	0.396	mg/Kg			01/06/23 11:14	1

Lab Sample ID: 890-3742-3 **Client Sample ID: S-8 Matrix: Solid**

Date Collected: 12/29/22 11:44

Date Received: 12/30/22 11:30

Sample Depth: 5

Method: SW846 8021B - Volatii	e Organic Comp	ounas (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/06/23 17:00	01/07/23 17:58	1
1,4-Difluorobenzene (Surr)	83		70 - 130				01/06/23 17:00	01/07/23 17:58	1

Mothod: TAI	SOP Total BTFX -	Total DTEV	Coloulation
IVIETTION: IAI	OUP IOMIDIES -	IOM DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 14:51	1

Lab Sample ID: 890-3742-3

01/05/23 13:08

01/04/23 09:27

Client: Talon/LPE

Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: S-8

Date Collected: 12/29/22 11:44 Date Received: 12/30/22 11:30

Sample Depth: 5

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	142		49.9	15.0	mg/Kg			01/06/23 11:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Diesel Range Organics (Over C10-C28)	88.4	В	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Oll Range Organics (Over C28-C36)	22.8	JB	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

_							
Method: MCAWW 300.0 - Anions, I	on Chromatography - Solu	ıble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	479	5.02	0.397 mg/Kg			01/06/23 11:20	1

70 - 130

70 - 130

127

145 S1+

Client Sample ID: SW-1 Lab Sample ID: 890-3742-4 **Matrix: Solid**

Date Collected: 12/29/22 11:52 Date Received: 12/30/22 11:30

Sample Depth: 3

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000634	J	0.00199	0.000383	mg/Kg		01/04/23 14:24	01/06/23 17:34	
Toluene	0.00119	J	0.00199	0.000454	mg/Kg		01/04/23 14:24	01/06/23 17:34	
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		01/04/23 14:24	01/06/23 17:34	
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/04/23 14:24	01/06/23 17:34	
o-Xylene	0.000552	J	0.00199	0.000343	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/04/23 14:24	01/06/23 17:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				01/04/23 14:24	01/06/23 17:34	
1,4-Difluorobenzene (Surr)	107		70 - 130				01/04/23 14:24	01/06/23 17:34	
		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL 0.00398	MDL 0.00101	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 11:51	
Analyte Total BTEX	Result 0.00238	Qualifier J	0.00398			<u>D</u>	Prepared		
Analyte Total BTEX Method: SW846 8015 NM - Die	Result 0.00238 esel Range Organ	Qualifier J	0.00398		mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	Result 0.00238 esel Range Organ	Qualifier J ics (DRO) (0.00398 GC)	0.00101	mg/Kg			01/09/23 11:51	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	Result 0.00238 esel Range Organ Result 246	Qualifier J ics (DRO) (Qualifier	0.00398 GC) RL 50.0	0.00101 MDL	mg/Kg			01/09/23 11:51 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	Result 0.00238 esel Range Organ Result 246 tiesel Range Orga	Qualifier J ics (DRO) (Qualifier	0.00398 GC) RL 50.0	0.00101 MDL	mg/Kg Unit mg/Kg			01/09/23 11:51 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	Result 0.00238 esel Range Organ Result 246 tiesel Range Orga	Qualifier J ics (DRO) (Qualifier nics (DRO) Qualifier	0.00398 GC) RL 50.0	0.00101 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/09/23 11:51 Analyzed 01/06/23 11:39	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result 0.00238 esel Range Organ Result 246 diesel Range Orga Result	Qualifier J ics (DRO) (Qualifier nics (DRO) Qualifier	0.00398 RL 50.0 (GC) RL 50.0	0.00101 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 01/04/23 09:27	01/09/23 11:51 Analyzed 01/06/23 11:39 Analyzed 01/05/23 13:30	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 0.00238 esel Range Organ Result 246 diesel Range Orga Result	Qualifier J ics (DRO) (Qualifier nics (DRO) Qualifier J	0.00398 GC) RL 50.0 (GC) RL	0.00101 MDL 15.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	01/09/23 11:51 Analyzed 01/06/23 11:39 Analyzed	Dil Fa

Matrix: Solid

Lab Sample ID: 890-3742-4

Job ID: 890-3742-1

Client: Talon/LPE Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: SW-1

Date Collected: 12/29/22 11:52 Date Received: 12/30/22 11:30

Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte Res	ılt Qualifi	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Oll Range Organics (Over 5- C28-C36)	.5 B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:30	1		

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	0	1/04/23 09:27	01/05/23 13:30	1
o-Terphenyl	153	S1+	70 - 130	0	01/04/23 09:27	01/05/23 13:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	548	5.00	0.395 mg/Kg			01/06/23 11:27	1

Client Sample ID: SW-2 Lab Sample ID: 890-3742-5

Date Collected: 12/29/22 11:58 Date Received: 12/30/22 11:30

Sample Depth: 3

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383 U	J	0.00199	0.000383	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Toluene	<0.000453 U	J	0.00199	0.000453	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Ethylbenzene	<0.000562 U	J	0.00199	0.000562	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
m-Xylene & p-Xylene	<0.00100 U	J	0.00398	0.00100	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
o-Xylene	<0.000342 U	J	0.00199	0.000342	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Xylenes, Total	<0.00100 U	J	0.00398	0.00100	mg/Kg		01/04/23 14:24	01/06/23 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/04/23 14:24	01/06/23 17:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/04/23 14:24	01/06/23 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/09/23 11:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	33.3	J	50.0	15.0	mg/Kg				01/06/23 11:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
(GRO)-C6-C10									
Diesel Range Organics (Over	17.7	JB	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
C10-C28)									
Oll Range Organics (Over	15.6	JB	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
C28-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	01/04/23 09:27	01/05/23 13:52	1
o-Terphenyl	162	S1+	70 - 130	01/04/23 09:27	01/05/23 13:52	1

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: SW-2 Lab Sample ID: 890-3742-5 Matrix: Solid

Date Collected: 12/29/22 11:58 Date Received: 12/30/22 11:30

Sample Depth: 3

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	423		4.99	0.394	mg/Kg			01/06/23 11:33	1		

Lab Sample ID: 890-3742-6 **Client Sample ID: SW-3**

Date Collected: 12/29/22 11:13 Date Received: 12/30/22 11:30

Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC)	ı						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/04/23 14:24	01/06/23 18:15	
Toluene	< 0.000457	U	0.00200	0.000457	mg/Kg		01/04/23 14:24	01/06/23 18:15	
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/04/23 14:24	01/06/23 18:15	•
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/04/23 14:24	01/06/23 18:15	
o-Xylene	< 0.000345	U	0.00200	0.000345	mg/Kg		01/04/23 14:24	01/06/23 18:15	
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/04/23 14:24	01/06/23 18:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				01/04/23 14:24	01/06/23 18:15	
1,4-Difluorobenzene (Surr)	105		70 - 130				01/04/23 14:24	01/06/23 18:15	1
Method: TAL SOP Total BTEX -	· Total BTEX Cale	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 11:51	1
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	181		49.9	15.0	mg/Kg			01/06/23 11:39	1
- Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.3	J	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:14	1
(/									
	115	В	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:14	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	28.1	_	49.9 49.9		mg/Kg mg/Kg		01/04/23 09:27 01/04/23 09:27	01/05/23 14:14 01/05/23 14:14	
C10-C28) Oll Range Organics (Over		JB							1
C10-C28) Oll Range Organics (Over C28-C36)	28.1	JB	49.9				01/04/23 09:27	01/05/23 14:14	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	28.1 %Recovery 121	JB	49.9				01/04/23 09:27 Prepared	01/05/23 14:14 Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	28.1	J B Qualifier S1+	49.9 Limits 70 - 130 70 - 130				01/04/23 09:27 Prepared 01/04/23 09:27	01/05/23 14:14 Analyzed 01/05/23 14:14	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	28.1 **Recovery 121 134 ns, Ion Chromato	J B Qualifier S1+	49.9 Limits 70 - 130 70 - 130		mg/Kg	D	01/04/23 09:27 Prepared 01/04/23 09:27	01/05/23 14:14 Analyzed 01/05/23 14:14	Dil Fac

Lab Sample ID: 890-3742-7

Client Sample Results

Job ID: 890-3742-1 Client: Talon/LPE

Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: SW-4

Date Collected: 12/29/22 11:01 Date Received: 12/30/22 11:30

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
o-Xylene	< 0.000346	U	0.00201	0.000346	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				01/04/23 14:24	01/06/23 18:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/04/23 14:24	01/06/23 18:36	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			01/09/23 11:51	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 62.5	Qualifier	RL 50.0		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/06/23 11:39	
	62.5	<u>·</u>	50.0			<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	62.5 sel Range Orga	<u>·</u>	50.0		mg/Kg	<u>D</u> 	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	62.5 sel Range Orga	nics (DRO) Qualifier	50.0 (GC)	15.0 MDL	mg/Kg			01/06/23 11:39	Dil Fac
Total TPH	62.5 sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	15.0 MDL 15.0	mg/Kg		Prepared	01/06/23 11:39 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	62.5 sel Range Orga Result <15.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg		Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 14:35	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	62.5 sel Range Orga Result <15.0 62.5	nics (DRO) Qualifier U B	50.0 (GC) RL 50.0 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 14:35 01/05/23 14:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	62.5 sel Range Orga Result <15.0 62.5 <15.0	nics (DRO) Qualifier U B	50.0 (GC) RL 50.0 50.0 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 14:35 01/05/23 14:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	62.5 sel Range Orga Result <15.0 62.5 <15.0 %Recovery	nics (DRO) Qualifier U B U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared	O1/06/23 11:39 Analyzed O1/05/23 14:35 O1/05/23 14:35 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	62.5 sel Range Orga Result <15.0 62.5 <15.0 %Recovery 132 149	Dualifier U B U Qualifier S1+ S1+	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 14:35 01/05/23 14:35 Analyzed 01/05/23 14:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	62.5 sel Range Orga Result <15.0 62.5 <15.0 %Recovery 132 149 s, lon Chromato	Dualifier U B U Qualifier S1+ S1+	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 14:35 01/05/23 14:35 Analyzed 01/05/23 14:35	Dil Fac

Surrogate Summary

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3742-1	S-6	122	98	
890-3742-2	S-7	111	106	
890-3742-3	S-8	116	83	
890-3742-4	SW-1	100	107	
890-3742-5	SW-2	106	107	
890-3742-6	SW-3	118	105	
890-3742-7	SW-4	110	106	
LCS 880-43171/1-A	Lab Control Sample	104	106	
LCS 880-43267/1-A	Lab Control Sample	95	95	
LCS 880-43289/1-A	Lab Control Sample	119	97	
LCS 880-43348/1-A	Lab Control Sample	102	105	
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107	
LCSD 880-43267/2-A	Lab Control Sample Dup	97	96	
LCSD 880-43289/2-A	Lab Control Sample Dup	112	96	
LCSD 880-43348/2-A	Lab Control Sample Dup	102	107	
MB 880-43171/5-A	Method Blank	99	105	
MB 880-43267/5-A	Method Blank	102	87	
MB 880-43280/5-A	Method Blank	99	102	
MB 880-43289/5-A	Method Blank	79	90	
MB 880-43346/5-A	Method Blank	76	86	
MB 880-43348/5-A	Method Blank	100	106	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3742-1	S-6	117	136 S1+	
890-3742-2	S-7	132 S1+	152 S1+	
890-3742-3	S-8	127	145 S1+	
890-3742-4	SW-1	143 S1+	153 S1+	
890-3742-5	SW-2	143 S1+	162 S1+	
890-3742-6	SW-3	121	134 S1+	
890-3742-7	SW-4	132 S1+	149 S1+	
LCS 880-43132/2-A	Lab Control Sample	106	112	
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104	
MB 880-43132/1-A	Method Blank	116	141 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43171

MB	MB
Pocult	Oualifi

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/04/23 14:24	01/06/23 11:51	1

мв мв

Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	01/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105	70 - 130	01/04/23 14:24	01/06/23 11:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43171

Lab Sample ID: LCS 880-43171/1-A

Matrix: Solid

Analysis Batch: 43326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07559		mg/Kg		76	70 - 130	
Toluene	0.100	0.07256		mg/Kg		73	70 - 130	
Ethylbenzene	0.100	0.07155		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	0.200	0.1466		mg/Kg		73	70 - 130	
o-Xylene	0.100	0.07250		mg/Kg		73	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	106	70 ₋ 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43326

Lab Sample ID: LCSD 880-43171/2-A

Prep Type: Total/NA Prep Batch: 43171

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-43267/5-A

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 43267

MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 13:12	01/06/23 10:51	1

QC Sample Results

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-43267/5-A

Matrix: Solid

Analysis Batch: 43325

Prep Type: Total/NA

Prep Batch: 43267

ı										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
	m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
	o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
	Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
ı										

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/05/23 13:12	01/06/23 10:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/05/23 13:12	01/06/23 10:51	1

Lab Sample ID: LCS 880-43267/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 43325

Prep Batch: 43267 Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.1011 101 70 - 130 mg/Kg Toluene 0.100 0.09684 mg/Kg 97 70 - 130 Ethylbenzene 0.100 0.08911 mg/Kg 89 70 - 130 0.200 m-Xylene & p-Xylene 0.1927 96 70 - 130 mg/Kg

0.09524

mg/Kg

0.100

LCS LCS

Surrogate	%Recovery Qเ	ıalifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-43267/2-A

Matrix: Solid

o-Xylene

Analysis Batch: 43325

Client Sample ID: Lab Control Sample Dup

70 - 130

95

Prep Type: Total/NA

Prep Batch: 43267

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: MB 880-43280/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43280

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:21	01/06/23 23:47	1

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Client: Talon/LPE

Job ID: 890-3742-1

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-43280/5-A

Project/Site: BIG SKY ABY STATE #1

Matrix: Solid

Analysis Batch: 43326

Client	Sample	ID:	Method	Blank
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Prep Type: Total/NA

Prep Batch: 43280

	III D	mb										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 14:21	01/06/23 23:47				
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:21	01/06/23 23:47				

MR MR

MR MR

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	01/05/23 14:21	01/06/23 23:47	1
1,4-Difluorobenzene (Surr)	102	70 - 130	01/05/23 14:21	01/06/23 23:47	1

Client Sample ID: Method Blank

Lab Sample ID: MB 880-43289/5-A **Matrix: Solid**

Analysis Batch: 43378

мв мв

Prep Type: Total/NA

Prep Batch: 43289

	MD	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:43	01/07/23 12:29	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	01/05/23 1	4:43 01/0	7/23 12:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/05/23 1	4:43 01/0	7/23 12:29	1

Lab Sample ID: LCS 880-43289/1-A

Matrix: Solid

Analysis Batch: 43378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43289

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08469		mg/Kg		85	70 - 130	
Toluene	0.100	0.09415		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09447		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Added Benzene 0.100 Toluene 0.100 Ethylbenzene 0.100 m-Xylene & p-Xylene 0.200	Analyte Added Result Benzene 0.100 0.08469 Toluene 0.100 0.09415 Ethylbenzene 0.100 0.09447 m-Xylene & p-Xylene 0.200 0.2129	Analyte Added Result Qualifier Benzene 0.100 0.08469 Toluene 0.100 0.09415 Ethylbenzene 0.100 0.09447 m-Xylene & p-Xylene 0.200 0.2129	Analyte Added Result Qualifier Unit Benzene 0.100 0.08469 mg/Kg Toluene 0.100 0.09415 mg/Kg Ethylbenzene 0.100 0.09447 mg/Kg m-Xylene & p-Xylene 0.200 0.2129 mg/Kg	Analyte Added Result Qualifier Unit D Benzene 0.100 0.08469 mg/Kg Toluene 0.100 0.09415 mg/Kg Ethylbenzene 0.100 0.09447 mg/Kg m-Xylene & p-Xylene 0.200 0.2129 mg/Kg	Analyte Added Result Qualifier Unit Unit D %Rec Benzene 0.100 0.08469 mg/Kg 85 Toluene 0.100 0.09415 mg/Kg 94 Ethylbenzene 0.100 0.09447 mg/Kg 94 m-Xylene & p-Xylene 0.200 0.2129 mg/Kg 106	Analyte Added Result Qualifier Unit D %Rec Nec Limits Benzene 0.100 0.08469 mg/Kg 85 70 - 130 Toluene 0.100 0.09415 mg/Kg 94 70 - 130 Ethylbenzene 0.100 0.09447 mg/Kg 94 70 - 130 m-Xylene & p-Xylene 0.200 0.2129 mg/Kg 106 70 - 130

LCS LCS

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-43289/2-A

Matrix: Solid

Analysis Batch: 43378

Prep Type: Total/NA

Prep Batch: 43289

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09067		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09776		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09508		mg/Kg		95	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130	1	35
o-Xylene	0.100	0.1183		mg/Kg		118	70 - 130	2	35

QC Sample Results

Client: Talon/LPE Job ID: 890-3742-1 SDG: Lea County Project/Site: BIG SKY ABY STATE #1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-43346/5-A

Matrix: Solid

Analysis Batch: 43378

Client Sampl	e ID: Me	thod Blank	(
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Prep Type: Total/NA

Prep Batch: 43346

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				01/06/23 09:37	01/07/23 01:53	1

70 - 130

Lab Sample ID: MB 880-43348/5-A

Matrix: Solid

Analysis Batch: 43326

1,4-Difluorobenzene (Surr)

Client Sample ID: Method Blank

01/06/23 09:37

01/07/23 01:53

Prep Type: Total/NA

Prep Batch: 43348

MR MR

86

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 10:37	01/07/23 11:22	1

	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/06/23 10:37	01/07/23 11:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/06/23 10:37	01/07/23 11:22	1

Lab Sample ID: LCS 880-43348/1-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43348

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09545		mg/Kg		95	70 - 130	
Toluene	0.100	0.09165		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.09102		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1886		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09195		mg/Kg		92	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-43348/2-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43348

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09847		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.09286		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09006		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	1	35
o-Xylene	0.100	0.09077		mg/Kg		91	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43132/1-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43132

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	20.66	J	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	15.19	J	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/04/23 09:27	01/05/23 08:23	1
o-Terphenyl	141	S1+	70 - 130	01/04/23 09:27	01/05/23 08:23	1

Lab Sample ID: LCS 880-43132/2-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 43132

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	973.0		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1092		mg/Kg		109	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	106	70 - 130
o-Terphenyl	112	70 - 130

Lab Sample ID: LCSD 880-43132/3-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 43132

Tananyoro Batom 10100								D utoiii	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1093		mg/Kg		109	70 - 130	12	20

(GRO)-C6-C10

QC Sample Results

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-43132/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 43193 Prep Batch: 43132

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 953.9 95 70 - 130 14 20 Diesel Range Organics (Over mg/Kg

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 95 o-Terphenyl 104 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43077/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43285

мв мв

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 5.00 01/06/23 08:28 Chloride <0.395 U 0.395 mg/Kg

Lab Sample ID: LCS 880-43077/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43285

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 259.2 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-43077/3-A

Matrix: Solid

Analysis Batch: 43285

LCSD LCSD RPD Spike %Rec Analyte Added Qualifier Result Unit %Rec Limits Limit Chloride 250 257.6 mg/Kg 103 90 - 110 20

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-4	SW-1	Total/NA	Solid	5035	
890-3742-5	SW-2	Total/NA	Solid	5035	
890-3742-6	SW-3	Total/NA	Solid	5035	
890-3742-7	SW-4	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	5035	
MB 880-43267/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43280/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-3	S-8	Total/NA	Solid	5035	
MB 880-43289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8021B	43267
MB 880-43267/5-A	Method Blank	Total/NA	Solid	8021B	43267
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	8021B	43267
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43267

Analysis Batch: 43326

Lab Sample ID

MB 880-43346/5-A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-2	S-7	Total/NA	Solid	8021B	43348
890-3742-4	SW-1	Total/NA	Solid	8021B	43171
890-3742-5	SW-2	Total/NA	Solid	8021B	43171
890-3742-6	SW-3	Total/NA	Solid	8021B	43171
890-3742-7	SW-4	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
MB 880-43280/5-A	Method Blank	Total/NA	Solid	8021B	43280
MB 880-43348/5-A	Method Blank	Total/NA	Solid	8021B	43348
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
LCS 880-43348/1-A	Lab Control Sample	Total/NA	Solid	8021B	43348
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
LCSD 880-43348/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43348

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Prep Type

Total/NA

Matrix

Solid

Method

5035

Prep Batch

1

3

4

0

10

10

13

14

Client Sample ID

Method Blank

QC Association Summary

Client: Talon/LPE

Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1

SDG: Lea County

GC VOA

Prep Batch: 43348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-2	S-7	Total/NA	Solid	5035	
MB 880-43348/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43348/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43348/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-3	S-8	Total/NA	Solid	8021B	43289
MB 880-43289/5-A	Method Blank	Total/NA	Solid	8021B	43289
MB 880-43346/5-A	Method Blank	Total/NA	Solid	8021B	43346
LCS 880-43289/1-A	Lab Control Sample	Total/NA	Solid	8021B	43289
LCSD 880-43289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43289

Analysis Batch: 43528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	Total BTEX	
890-3742-2	S-7	Total/NA	Solid	Total BTEX	
890-3742-3	S-8	Total/NA	Solid	Total BTEX	
890-3742-4	SW-1	Total/NA	Solid	Total BTEX	
890-3742-5	SW-2	Total/NA	Solid	Total BTEX	
890-3742-6	SW-3	Total/NA	Solid	Total BTEX	
890-3742-7	SW-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015NM Prep	
890-3742-2	S-7	Total/NA	Solid	8015NM Prep	
890-3742-3	S-8	Total/NA	Solid	8015NM Prep	
890-3742-4	SW-1	Total/NA	Solid	8015NM Prep	
890-3742-5	SW-2	Total/NA	Solid	8015NM Prep	
890-3742-6	SW-3	Total/NA	Solid	8015NM Prep	
890-3742-7	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015B NM	43132
890-3742-2	S-7	Total/NA	Solid	8015B NM	43132
890-3742-3	S-8	Total/NA	Solid	8015B NM	43132
890-3742-4	SW-1	Total/NA	Solid	8015B NM	43132
890-3742-5	SW-2	Total/NA	Solid	8015B NM	43132
890-3742-6	SW-3	Total/NA	Solid	8015B NM	43132
890-3742-7	SW-4	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132

QC Association Summary

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

GC Semi VOA

Analysis Batch: 43366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015 NM	
890-3742-2	S-7	Total/NA	Solid	8015 NM	
890-3742-3	S-8	Total/NA	Solid	8015 NM	
890-3742-4	SW-1	Total/NA	Solid	8015 NM	
890-3742-5	SW-2	Total/NA	Solid	8015 NM	
890-3742-6	SW-3	Total/NA	Solid	8015 NM	
890-3742-7	SW-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Soluble	Solid	DI Leach	
890-3742-2	S-7	Soluble	Solid	DI Leach	
890-3742-3	S-8	Soluble	Solid	DI Leach	
890-3742-4	SW-1	Soluble	Solid	DI Leach	
890-3742-5	SW-2	Soluble	Solid	DI Leach	
890-3742-6	SW-3	Soluble	Solid	DI Leach	
890-3742-7	SW-4	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Soluble	Solid	300.0	43077
890-3742-2	S-7	Soluble	Solid	300.0	43077
890-3742-3	S-8	Soluble	Solid	300.0	43077
890-3742-4	SW-1	Soluble	Solid	300.0	43077
890-3742-5	SW-2	Soluble	Solid	300.0	43077
890-3742-6	SW-3	Soluble	Solid	300.0	43077
890-3742-7	SW-4	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077

Project/Site: BIG SKY ABY STATE #1

Client: Talon/LPE

Matrix: Solid

Date Collected: 12/29/22 11:28 Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 12:25	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:08	CH	EET MID

Client Sample ID: S-7 Lab Sample ID: 890-3742-2

Date Collected: 12/29/22 11:35

Matrix: Solid

Date Received: 12/30/22 11:30

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 43348 01/06/23 10:37 MNR EET MID Total/NA 8021B 5 mL 43326 01/07/23 18:07 MNR **EET MID** Analysis 1 5 mL Total/NA Total BTEX 43528 01/09/23 11:51 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 43366 01/06/23 11:39 **EET MID** Total/NA 43132 01/04/23 09:27 Prep 8015NM Prep 10.04 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 43193 01/05/23 12:46 ΑJ **EET MID** Soluble 43077 01/03/23 12:07 KS Leach DI Leach 4.99 g 50 mL **EET MID** Soluble Analysis 300.0 43285 01/06/23 11:14 СН **EET MID**

Client Sample ID: S-8

Lab Sample ID: 890-3742-3

Matrix: Solid

Date Collected: 12/29/22 11:44 Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43289	01/06/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43378	01/07/23 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 14:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 13:08	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:20	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-3742-4

Matrix: Solid

Date Collected: 12/29/22 11:52 Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID

Client: Talon/LPE

Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: SW-1 Lab Sample ID: 890-3742-4

Date Collected: 12/29/22 11:52 Matrix: Solid Date Received: 12/30/22 11:30

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 43366 Analysis 01/06/23 11:39 AJ **EET MID** Total/NA Prep 8015NM Prep 10.00 g 10 mL 43132 01/04/23 09:27 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 43193 01/05/23 13:30 ΑJ EET MID Soluble 50 mL 43077 01/03/23 12:07 KS EET MID Leach DI Leach 5 g 300.0 43285 01/06/23 11:27 Soluble Analysis 1 СН **EET MID**

Client Sample ID: SW-2 Lab Sample ID: 890-3742-5

Date Collected: 12/29/22 11:58 **Matrix: Solid**

Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 13:52	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:33	CH	EET MID

Client Sample ID: SW-3 Lab Sample ID: 890-3742-6

Date Collected: 12/29/22 11:13 Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 14:14	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:39	CH	EET MID

Client Sample ID: SW-4 Lab Sample ID: 890-3742-7

Date Collected: 12/29/22 11:01 Date Received: 12/30/22 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 14:35	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1 SDG: Lea County

Client Sample ID: SW-4 Lab Sample ID: 890-3742-7

Date Collected: 12/29/22 11:01 Matrix: Solid Date Received: 12/30/22 11:30

Dil Batch Batch Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 43077 KS EET MID Leach 4.96 g 50 mL 01/03/23 12:07 300.0 EET MID Soluble Analysis 1 43285 01/06/23 11:45 СН

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: Talon/LPE Job ID: 890-3742-1 Project/Site: BIG SKY ABY STATE #1

SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE

Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1 SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3742-1	S-6	Solid	12/29/22 11:28	12/30/22 11:30	5
890-3742-2	S-7	Solid	12/29/22 11:35	12/30/22 11:30	5
890-3742-3	S-8	Solid	12/29/22 11:44	12/30/22 11:30	5
890-3742-4	SW-1	Solid	12/29/22 11:52	12/30/22 11:30	3
890-3742-5	SW-2	Solid	12/29/22 11:58	12/30/22 11:30	3
890-3742-6	SW-3	Solid	12/29/22 11:13	12/30/22 11:30	3
890-3742-7	SW-4	Solid	12/29/22 11:01	12/30/22 11:30	3

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Total 200.7 / 6010

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eurofins **Environment Testing** Xenco

Phone:

City, State ZIP:

Address:

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Reporting: Level II Level III PST/UST TRRP

Level IV

UST/PST PRP Brownfields

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Superfund [

Work Order Comments

www.xenco.com

Page

State of Project: Program:

Project Number:

Project Name:

SAMPLE RECEIPT

Sampler's Name: Project Location:

Samples Received Intac

Total Containers: Sample Custody Seals: Cooler Custody Seals:

Sample Identifi

-MS 5 Project Manager:

Hensley

Bill to: (if different) Company Name:

ECK Jeremy

Company Name:

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

THE CORRECTION BECOUNTING N/A N/A N/A Correction Factor: N/A Temperature Reading: Corrected Temperature: Date Time Sampled Sampled 11119 6020: 8RCRA 13PPI o be analyzed Received by: (Signature Received by: (Signature			6				
Preservative None: NO Cool: Cool HqCl: HC HqS0 4: HP NaHS0 4: HP NaHS0 4: NABIS Na 25 20 3: NASO 3 Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Hg: 1631 / 245.1 / 7470 / 7471 Preservative None: NO Cool: Cool HqS0 4: HP NaHS0 4: NABIS Na 25 20 3: NASO 3 Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Date			4 4	Jon da 1135	1	CH W	
Preservative None: NO Cool: Cool HCL: HC H₂SO 4: H₂ H₃PO 4: HP NaHSO 4: NABIS Na 25 203: NASO 3 Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Hg: 1631 / 245.1 / 7470 / 7471	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	15	Received by: (Signature)	ignature)
ANALYSIS REQUEST Preservative ANALYSIS REQUEST A		ons rol egotiated.	nd subcontractors. It assigns standard terms and conditi It such losses are due to circumstances beyond the cont nalyzed. These terms will be enforced unless previously n	ofins Xenco, its affillates ar nses incurred by the client Eurofins Xenco, but not an	rom client company to Eur bility for any losses or expe each sample submitted to	les constitutes a valid purchase order ples and shall not assume any responsi to each project and a charge of \$5 for	d relinquishment of sam e only for the cost of sam of \$85.00 will be applied
Trum Around ANALYSIS REQUEST Preservative Boutine □Rush Pres. ANALYSIS REQUEST ANALYSIS REQUEST None: NO Cool: Cool Cool: Cool HCL: HC H;50 ;: H2 H;90 ;: H2 NaoH-Ascorbic Ax Sample Con Sample Con Sample Con 11	J V Zn /7471	Ni K Se Ag SiO ₂ Na Sr Hg: 1631/245.1,	d Ca Cr Co Cu Fe Pb Mg Mn Mo Cr Co Cu Pb Mn Mo Ni Se Ag Tl	As Ba Be B Co Sb As Ba Be Cd	Texas 11 Al SI P 6010 : 8RCRA	8RCR	200.8 / 6020: etal(s) to be an
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Trum Around Analysis request Deliverables: EDD ADaPT Other:				1		10:28	
Email: Tum Around ANALYSIS REQUEST ANALYSIS REQUEST Preservative Boutine □Rush Code Cool: Cool Cool: Cool HCL: HC H 250 4: H 2 H 30 4: H 3 ANALYSIS REQUEST None: NO Cool: Cool HCL: HC H 30 4: H 2 H 30 4: H 2 H 30 4: H 3 NaHSO 4: NABIS Na 25 20 3: NASO 3 Zn Acctate+NaOH NaOH+Ascorbic Ac Na	mple Comments	Sa		B	Grab/ Comp	Date Time Sampled Sampled	Matrix
Email: Deliverables: EDD	१scorbic Acid: SAPC			TEX		Corrected Temperature:	
Trum Around ANALYSIS REQUEST Preservative ANALYSIS REQUEST Preservative ANALYSIS REQUEST None: NO Cool: Cool HCL: HC H₂SO ₄: H₂ NaHSO ₄: NABIS	ste+NaOH: Zn			(رواد	Correction Factor:	N S
Email: Tum Around ANALYSIS REQUEST Preservative Mone: No EDD □ ADaPT □ Other: Preservative None: No Cool: Cool H;50 4: H₂ Preservative None: No H;50 4: H₂ Preservative None: No Cool: Cool H;50 4: H₂ Preservative None: No	4: NABIS	NaHSO		les	П	1	Yes No
Email: Turn Around ANALYSIS REQUEST ANALYSIS REQUEST Preservative ANALYSIS REQUEST Cool: Cool Epate: □ Deliverables: EDD □ ADaPT □ Other: Preservative None: NO Cool: Cool HCL: HC H₂SO₄: H₂	HP	Н₃РО ₄:		,	L	No	Temp Blank:
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Email: Deliverables: EDD ☐ ADaPT ☐ Other: Tum Around ANALYSIS REQUEST Preservative Moutine ☐Rush Pres. Cool: Cool None: NO © Date: Cool: Cool Cool: Cool		HCL: HC		_	y received by		of Henst
Email: Deliverables: EDD		Cool: Co				Due Date:	county
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Address:

Company Name: roject Manager

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eurofins : Xenco **Environment Testing** Midia EL P

Chain of Custody

ouston, TX (281) 240-4200, Dallas, TX (214) 902-0300	
and, TX (432) 704-5440, San Antonio, TX (210) 509-3334	
Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	
bbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	

Bill to: (if different)

Company Name:

Jereny

Program:

UST/PST PRP Brownfields

RRC

Superfund [

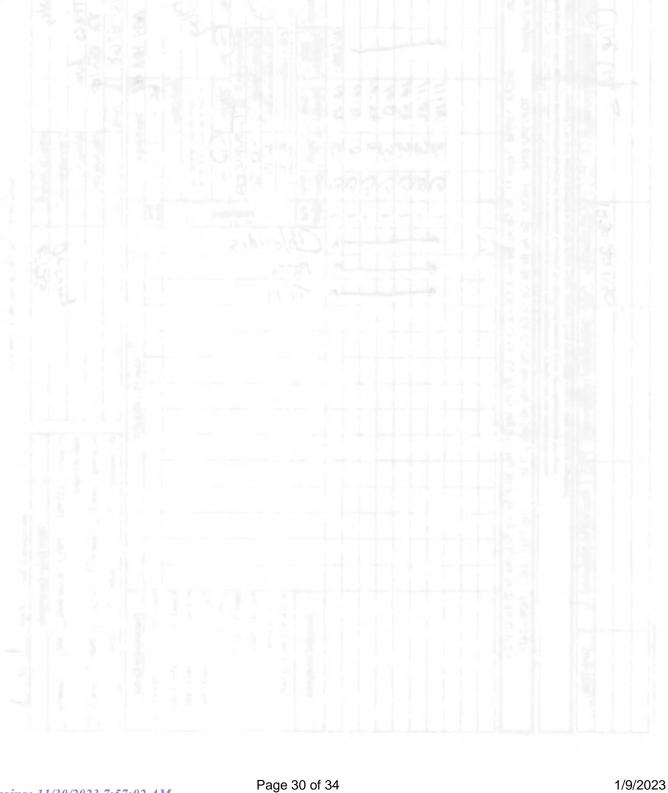
Work Order Comments

www.xenco.com

Page

Reporting: Level II | Level III | PST/UST | TRRP | Level IV |

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		2)	Received by: (Signature)	Received t	ature)	Relinquished by: (Signature)
	ons rol egotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	s Xenco, its affiliates and s s incurred by the client if su ofins Xenco, but not analya	y to Eurofin or expense itted to Euro	er from client compani nsibility for any losses of or each sample submi	valid purchase orde assume any respon and a charge of \$5 f	les constitutes a v bles and shall not to each project a	nd relinquishment of samp le only for the cost of samp e of \$85.00 will be applied	: Signature of this document a ice. Eurofins Xenco will be llab xfins Xenco. A minimum charg
0 U V Zn 0 / 7471	Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn 9 Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471	Cr Co Cu Fe Pb Mg o Cu Pb Mn Mo Ni Se	As Ba Be B Cd Ca As Ba Be Cd Cr C	Al Sb RA Sb	8RCRA 13PPM Texas 11 AI Sb As Ba Be B TCLP/SPLP 6010: 8RCRA Sb As Ba Be C	RCRA 13PP TCLP/SF		200.8 / 6020: 4etal(s) to be ana	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
			+ +	-	31 6	11110	۴		5 W-2
				-	36	11:03			SW3
				-	30	1000			くなって
				- /	25 6	44:01			8-5.5
				-	5,0	16:35	-		4.5
			XXX	~	6	10:28	12/20/22		5-6
Sample Comments			B	# of Cont	Depth Grab/	Time Sampled	Date Sampled	n Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH		h/o TE		5,8	Corrected Temperature:	Corrected T		Total Containers:
Zn Acetate+NaOH: Zn		CD-3/42 Chain of Custody	x H		6.0	e Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃		800-3742	id	_	0.0		Correction Factor:	Yes NO N/A	Cooler Custody Seals:
NaHSO 4: NABIS	NaHS		٤5		HOOMIN	1	Thermometer ID:	Yes No	Samples Received Intact:
4: H₽	H ₃ PO ₄ : HP			eter	Yes No	Wet Ice:	Yes No	Temp Blank:	SAMPLE RECEIPT
4: H ₂ NaOH: Na	H ₂ SO ₄ : H ₂			5	the lab, if received by 4:30pm	the lab, if rece			
HC HNO 3: HN	HCL: HC				TAT starts the day received by	TAT starts the	5	had Hensly	2
Cool MeOH: Me	Cool: Cool					Due Date:		county,	Project Location:
: NO DI Water: H ₂ O	None: NO			Code	Rush	Routine		/	Project Number:
Preservative Codes		ANALYSIS REQUEST			Turn Around		By state	BIO SKY MBY STATE OF	Project Name: 8/
Other:	sbles: EDD ADaPT	Deliverables:				Email:	46-8768	575-746	Phone:
	רכאכן זוו ר	neporm			City, State ZIP:	6	1× 80014		City, State ZIP:



Relipquished by (Signature)

the

Received by: (Signature)

12/30/22

Date/Time

Relinquished by: (Signature)

Received by (Signature)

Revised Date 08/25/2020 Rev 2020.2

1-30-22 450 Date/Time

eurofins 🛟

Phone:

City, State ZIP:

Address: Company Name: Project Manager:

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

Sampler's Name: Project Location: Project Number: Project Name:

Xenco **Environment Testing**

Chain of Custody

Midland, TX (432) 704-5440. San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) Hobbs, NM (575) 392-7550, Carlsbad, NM (575) Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

roject Manager: Joe	Joe Gable				Bill to: (if different)	fferent)	\	Kalei Jennings	nings		Worl	ts
ompany Name: Ens	Ensolum, LLC				Company Name:	Name:	E	Ensolum, LLC	LLC		Program: UST/PST PRP Brownfields	□ Brownfields ☐ RRC ☐ Superfund
	601 N Marienfeld St Suite 400	d St Su	ite 400		Address:		60	1 N M	rienfelo	601 N Marienfeld St Suite 400	State of Project:	
e ZIP:	Midland, TX 79701	2			City, State ZIP:	ZIP:		Midland, TX 79701	TX 797		Reporting: Level II Level	Reporting: Level II Level III PST/UST TRRP Level IV
	903-386-8073			Email:	Email: kjennings@ensolum.com_igable@ensolum.com	@ensc	olum.cc	om, iga	ble@e	um.com	Deliverables: EDD	ADaPT Other:
roject Name:	Jacinto Fed Com 40H	d Com	40H	Turn	Turn Around					ANALYSIS RE	REQUEST	Preservative Codes
roject Number:	03D2	03D2024134		Routine	Rush	0.7	Pres. Code					None: NO DI Water: H ₂ O
roject Location:	32.181667, -103.421389	-103.4	21389	Due Date:								Cool: Cool MeOH: Me
ampler's Name:	Kase	Kase Parker		TAT starts the day received by	day receive	ed by				_		
				the lab, if received by 4:30pm	eived by 4:3	Opm	rs					H ₂ S0 ₄ : H ₂ NaOH: Na
AMPLE RECEIPT	Temp Blank:		(Yes No	Wet ice:	(Yes)	No	nete	.0)	_			H ₃ PO ₄ : HP
amples Received Intact:	Yes	No	Thermometer ID:	ID: V	mos	1		300				NaHSO ₄ : NABIS
ooler Custody Seals:	Yes No	N/A	N/A Correction Factor:	ctor:		Ø)		PA:	-	890-3741 Cha	Chain of Custody	Na ₂ S ₂ O ₃ : NaSO ₃
ample Custody Seals:	Yes No	N/A	Temperature Reading:	Reading:	1.2		0.75				-	Zn Acetate+NaOH: Zn
otal Containers:			Corrected Temperature:	nperature:	- 0			-				NaCH+Ascorbic Acid: SAPC
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/ #	# of	CHLOR	TPH (8			Sample Comments
SS01		S	12/28/2022	1215	0.5'	Grab/		×	×			
SS02		S	12/28/2022	1220	0.5'	Grab/		×	×			
SS03		S	12/28/2022	1225	0.5'	Grab/		×	×			
SS04		S	12/28/2022	1230	0.5'	Grab/	>	×	×			
/												
								_				
					Co							
						A	4	+				
								4	H			
									Н			
Total 200.7 / 6010	200.8 / 6020:	20:	88	8RCRA 13PPM	M Texa	Texas 11	Al Sb As	As Ba	ве в	11	K Se A	SiO ₂ Na Sr Tl Sn U V Zn
ircle Method(s) and Metal(s) to be analyzed	/letal(s) to be	analyz	e <u>d</u>	TCLP / S	PI P 6010	SRC	2	•		TO DE PROPERTY OF AS BOOK OF CO. OF ME ME		Ha: 1631 / 245 1 / 7470 / 7471
ICLE Method(s) and Metal(s) to be analyzed ICLF / SPLF OUTD. ONUM, So De De Co Co Co Co Co Fo will be a conditions and conditions and conditions. It assigns standard terms and conditions	netal(s) to be	analyz	ea	C		27		5	0,00		MO NI SE ACI II	

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3742-1 SDG Number: Lea County

Login Number: 3742 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3742-1

SDG Number: Lea County

List Source: Eurofins Midland
List Number: 2
List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210 Generated 1/19/2023 1:58:31 PM

JOB DESCRIPTION

BIG SKY ABY STATE #1

JOB NUMBER

890-3860-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/19/2023 1:58:31 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 25 1/19/2023

Client: Talon/LPE Laboratory Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

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Definitions/Glossary

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3860-1

Receipt

The samples were received on 1/13/2023 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (890-3860-1), S-8 (890-3860-2), SW-1 (890-3860-3) and SW-3 (890-3860-4).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-44154/2-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Client Sample ID: S-7

Lab Sample ID: 890-3860-1

Date Collected: 01/12/23 10:01 Matrix: Solid
Date Received: 01/13/23 14:47

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/18/23 08:29	01/18/23 12:03	
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		01/18/23 08:29	01/18/23 12:03	
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/18/23 08:29	01/18/23 12:03	•
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:03	
o-Xylene	< 0.000346	U	0.00201	0.000346	mg/Kg		01/18/23 08:29	01/18/23 12:03	
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130				01/18/23 08:29	01/18/23 12:03	
1,4-Difluorobenzene (Surr)	97		70 - 130				01/18/23 08:29	01/18/23 12:03	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			01/18/23 14:19	-
Method: SW846 8015 NM - Diese	al Pango Organ	ics (DRO) ((GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.9	J	49.9	15.0	mg/Kg		<u> </u>	01/19/23 12:55	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL		Unit	D	D		
			RL.	MDL	Oilit	U	Prepared	Analyzed	Dil Fa
•	19.9	J	49.9	15.0	mg/Kg	=	01/17/23 13:25	Analyzed 01/18/23 22:24	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	19.9	J		15.0			<u>.</u>		
(GRO)-C6-C10		J	49.9	15.0 15.0	mg/Kg	5	01/17/23 13:25	01/18/23 22:24	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	27.0	J U	49.9	15.0 15.0	mg/Kg		01/17/23 13:25 01/17/23 13:25	01/18/23 22:24	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	27.0 <15.0	J U	49.9 49.9 49.9	15.0 15.0	mg/Kg		01/17/23 13:25 01/17/23 13:25 01/17/23 13:25	01/18/23 22:24 01/18/23 22:24 01/18/23 22:24	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	27.0 <15.0 %Recovery	J U	49.9 49.9 49.9 <i>Limits</i>	15.0 15.0	mg/Kg		01/17/23 13:25 01/17/23 13:25 01/17/23 13:25 Prepared	01/18/23 22:24 01/18/23 22:24 01/18/23 22:24 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	27.0 <15.0 	J U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	15.0 15.0	mg/Kg		01/17/23 13:25 01/17/23 13:25 01/17/23 13:25 Prepared 01/17/23 13:25	01/18/23 22:24 01/18/23 22:24 01/18/23 22:24 Analyzed 01/18/23 22:24	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	27.0 <15.0 **Recovery 115 103 s, lon Chromato	J U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	15.0 15.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	01/17/23 13:25 01/17/23 13:25 01/17/23 13:25 Prepared 01/17/23 13:25	01/18/23 22:24 01/18/23 22:24 01/18/23 22:24 Analyzed 01/18/23 22:24	Dil Fac

Client Sample ID: S-8 Lab Sample ID: 890-3860-2

Date Collected: 01/12/23 10:09 Date Received: 01/13/23 14:47

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Ethylbenzene	< 0.000571	U	0.00202	0.000571	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
o-Xylene	< 0.000347	U	0.00202	0.000347	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				01/18/23 08:29	01/18/23 12:23	1

Eurofins Carlsbad

Matrix: Solid

Client: Talon/LPE

Project/Site: BIG SKY ABY STATE #1

Client Sample ID: S-8

Date Collected: 01/12/23 10:09 Date Received: 01/13/23 14:47

Sample Depth: 6

Lab Sample ID: 890-3860-2

Matrix: Solid

Job ID: 890-3860-1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1,4-Difluorobenzene (Surr)
 95
 70 - 130
 01/18/23 08:29
 01/18/23 12:23
 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL voit
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00102</td>
 U
 0.00404
 0.00102
 mg/Kg
 01/18/23 14:19
 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 35.8
 J
 49.8
 14.9
 mg/Kg
 01/19/23 12:55
 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac <14.9 U 01/17/23 13:25 01/18/23 23:30 Gasoline Range Organics 49.8 14.9 mg/Kg (GRO)-C6-C10 49.8 14.9 mg/Kg 01/17/23 13:25 01/18/23 23:30 **Diesel Range Organics (Over** 35.8 J C10-C28) OII Range Organics (Over C28-C36) <14.9 U 49.8 14.9 mg/Kg 01/17/23 13:25 01/18/23 23:30

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 108 70 - 130 01/17/23 13:25 01/18/23 23:30 01/17/23 13:25 o-Terphenyl 100 70 - 130 01/18/23 23:30

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result Qualifier
 RL MDL Unit
 D Prepared
 Analyzed Analyzed
 Dil Fac

 Chloride
 812
 25.0
 1.97 mg/Kg
 01/17/23 15:00
 5

Client Sample ID: SW-1 Lab Sample ID: 890-3860-3

Date Collected: 01/12/23 10:13 Date Received: 01/13/23 14:47

Date Received: 01/13/23 14:4

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

MDL Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.000381 U 0.00198 0.000381 mg/Kg 01/18/23 08:29 01/18/23 12:44 Toluene <0.000451 U 0.00198 0.000451 01/18/23 08:29 01/18/23 12:44 mg/Kg Ethylbenzene <0.000559 U 0.00198 0.000559 01/18/23 08:29 01/18/23 12:44 mg/Kg 0.00396 01/18/23 12:44 m-Xylene & p-Xylene <0.00100 U 0.00100 mg/Kg 01/18/23 08:29 o-Xylene <0.000341 U 0.00198 0.000341 mg/Kg 01/18/23 08:29 01/18/23 12:44 Xylenes, Total <0.00100 U 0.00396 0.00100 mg/Kg 01/18/23 08:29 01/18/23 12:44

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/18/23 08:29 4-Bromofluorobenzene (Surr) 114 01/18/23 12:44 1,4-Difluorobenzene (Surr) 84 70 - 130 01/18/23 08:29 01/18/23 12:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00100</td>
 U
 0.00396
 0.00100
 mg/Kg

 01/18/23 14:19
 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

 Analyte
 Result Total TPH
 Qualifier
 RL Result Sequence
 MDL Unit Result Sequence
 D Repared Sequence
 Analyzed Analyzed Dil Factoria

 113
 49.9
 15.0 mg/Kg
 01/19/23 12:55
 1

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Matrix: Solid

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Client Sample ID: SW-1 Lab Sample ID: 890-3860-3

Date Collected: 01/12/23 10:13 Matrix: Solid Date Received: 01/13/23 14:47

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
Diesel Range Organics (Over C10-C28)	113		49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				01/17/23 13:25	01/18/23 23:51	1
o-Terphenyl	88		70 ₋ 130				01/17/23 13:25	01/18/23 23:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.01 0.396 mg/Kg 01/17/23 15:19 Chloride 657

Client Sample ID: SW-3 Lab Sample ID: 890-3860-4 **Matrix: Solid**

Date Collected: 01/12/23 10:25

Date Received: 01/13/23 14:47

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Toluene	< 0.000453	U	0.00199	0.000453	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Ethylbenzene	< 0.000562	U	0.00199	0.000562	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				01/18/23 08:29	01/18/23 13:04	1
1,4-Difluorobenzene (Surr)	74		70 - 130				01/18/23 08:29	01/18/23 13:04	1
Analyte Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/18/23 14:19	1
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0.00100 MDL			Prepared		·
Total BTEX	el Range Organ		GC)			<u>D</u>	Prepared	01/18/23 14:19 Analyzed 01/19/23 12:55	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result 103 sel Range Orga	ics (DRO) ((Qualifier	GC) RL 49.8	MDL	Unit mg/Kg	D	<u> </u>	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	el Range Organ Result 103 sel Range Orga	ics (DRO) ((Qualifier unics (DRO) Qualifier	RL 49.8	MDL 14.9	Unit mg/Kg		Prepared 01/17/23 13:25	Analyzed 01/19/23 12:55	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 103 sel Range Orga Result	ics (DRO) ((Qualifier unics (DRO) Qualifier	RL 49.8 (GC)	MDL 14.9	Unit mg/Kg		Prepared	Analyzed 01/19/23 12:55 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 103 sel Range Orga Result <14.9	ics (DRO) ((Qualifier unics (DRO) Qualifier U	(GC) RL 49.8 (BC) 49.8	MDL 14.9 MDL 14.9	Unit mg/Kg Unit mg/Kg		Prepared 01/17/23 13:25	Analyzed 01/19/23 12:55 Analyzed 01/19/23 00:13	Dil Fac Dil Fac 1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 103 sel Range Orga Result <14.9	ics (DRO) (Control of the Control of	GC) RL 49.8 (GC) RL 49.8 49.8	MDL 14.9 MDL 14.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 13:25 01/17/23 13:25	Analyzed 01/19/23 12:55 Analyzed 01/19/23 00:13 01/19/23 00:13	Dil Fac Dil Fac 1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 103 sel Range Orga Result <14.9 103	ics (DRO) (Control of the Control of	GC) RL 49.8 (GC) RL 49.8 49.8 49.8	MDL 14.9 MDL 14.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 13:25 01/17/23 13:25 01/17/23 13:25	Analyzed 01/19/23 12:55 Analyzed 01/19/23 00:13 01/19/23 00:13 01/19/23 00:13	Dil Fac Dil Fac 1 1 1

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Client Sample Results

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Client Sample ID: SW-3 Lab Sample ID: 890-3860-4

Date Collected: 01/12/23 10:25 Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 3

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	luble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.00	0.395	mg/Kg			01/17/23 15:25	1

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Surrogate Summary

Job ID: 890-3860-1 Client: Talon/LPE

Project/Site: BIG SKY ABY STATE #1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
l ah Camula ID	Client Comple ID	(70-130)	(70-130)	
Lab Sample ID	Client Sample ID			
890-3860-1	S-7	92	97	
890-3860-1 MS	S-7	127	101	
890-3860-1 MSD	S-7	114	99	
890-3860-2	S-8	94	95	
890-3860-3	SW-1	114	84	
390-3860-4	SW-3	84	74	
LCS 880-44226/1-A	Lab Control Sample	89	104	
LCSD 880-44226/2-A	Lab Control Sample Dup	112	99	
MB 880-44226/5-A	Method Blank	82	90	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-3860-1	S-7	115	103	
0-3860-1 MS	S-7	88	79	
0-3860-1 MSD	S-7	95	86	
0-3860-2	S-8	108	100	
0-3860-3	SW-1	97	88	
0-3860-4	SW-3	100	93	
S 880-44154/2-A	Lab Control Sample	172 S1+	159 S1+	
SD 880-44154/3-A	Lab Control Sample Dup	113	100	
3 880-44154/1-A	Method Blank	120	120	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44226/5-A Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44226

l		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
	Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
	Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
	m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
	o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
	Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/18/23 08:29	01/18/23 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	-	01/18/23 08:29	01/18/23 11:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130		01/18/23 08:29	01/18/23 11:41	1

Lab Sample ID: LCS 880-44226/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 44223

Prep Type: Total/NA

Prep Batch: 44226

	Бріке	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09903	-	mg/Kg		99	70 - 130	
Toluene	0.100	0.09706		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.08273		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery G	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-44226/2-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44226

	Spike	LCSD L	.CSD				%Rec		RPD
Analyte	Added	Result Q	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	32	35
o-Xylene	0.100	0.1291		mg/Kg		129	70 - 130	33	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-3860-1 MS

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: S-7
Prep Type: Total/NA

Prep Batch: 44226

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000387	U	0.0990	0.09265		mg/Kg		94	70 - 130	
Toluene	<0.000459	U	0.0990	0.09939		mg/Kg		100	70 - 130	

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Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Lab Sample ID: 890-3860-1 MS Client Sample ID: S-7 Prep Type: Total/NA Analysis Batch: 44223 Prep Batch: 44226

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.000568	U	0.0990	0.09605		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00102	U	0.198	0.2160		mg/Kg		109	70 - 130	
o-Xylene	<0.000346	U	0.0990	0.1191		mg/Kg		120	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 127 1,4-Difluorobenzene (Surr) 70 - 130 101

Lab Sample ID: 890-3860-1 MSD

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: S-7 Prep Type: Total/NA Prep Batch: 44226

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000387	U	0.101	0.08187		mg/Kg		81	70 - 130	12	35
Toluene	<0.000459	U	0.101	0.08779		mg/Kg		87	70 - 130	12	35
Ethylbenzene	<0.000568	U	0.101	0.08013		mg/Kg		79	70 - 130	18	35
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1785		mg/Kg		89	70 - 130	19	35
o-Xylene	<0.000346	U	0.101	0.09776		mg/Kg		97	70 - 130	20	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 114 1,4-Difluorobenzene (Surr) 99 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44154/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 44218

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1
	C10-C28)									
(Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1

MB MB %Recovery Dil Fac Surrogate Qualifier Limits Prepared Analyzed 70 - 130 01/17/23 13:25 1-Chlorooctane 120 01/18/23 21:17 o-Terphenyl 120 70 - 130 01/17/23 13:25 01/18/23 21:17

Lab Sample ID: LCS 880-44154/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 44218

Matrix: Solid

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit %Rec Limits 1000 870.9 87 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 900.2 mg/Kg 90 70 - 130

C10-C28)

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Prep Type: Total/NA

Prep Batch: 44154

Prep Type: Total/NA

Prep Batch: 44154

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Limits

Lab Sample ID: LCS 880-44154/2-A **Matrix: Solid**

Analysis Batch: 44218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44154

Surrogate %Recovery Qualifier

1-Chlorooctane 172 S1+ 70 - 130 o-Terphenyl 159 S1+ 70 - 130

LCS LCS

Lab Sample ID: LCSD 880-44154/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 44218 Prep Batch: 44154

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 930.2 93 70 - 1307 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 842.5 84 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 113

100 70 - 130 o-Terphenyl

Lab Sample ID: 890-3860-1 MS Client Sample ID: S-7 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 44218 Prep Batch: 44154 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics 19.9 J 998 1075 mg/Kg 106 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 27.0 J 998 922.8 mg/Kg 90 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 88 70 - 130 o-Terphenyl 79

Lab Sample ID: 890-3860-1 MSD Client Sample ID: S-7

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 44218** Prep Batch: 44154

Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 19.9 J 997 980.2 96 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 27.0 J 997 976.4 95 70 - 130

mg/Kg

C10-C28)

Diesel Range Organics (Over

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 95 70 - 130 86 70 - 130 o-Terphenyl

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QC Sample Results

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44148/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44156

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <0.395 U 5.00 0.395 mg/Kg 01/17/23 14:05

Lab Sample ID: LCS 880-44148/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44156

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits

250

Lab Sample ID: LCSD 880-44148/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44156

Chloride

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 254.1 102 90 - 110 20 mg/Kg

254.0

mg/Kg

102

90 - 110

QC Association Summary

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

GC VOA

Analysis Batch: 44223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8021B	44226
890-3860-2	S-8	Total/NA	Solid	8021B	44226
890-3860-3	SW-1	Total/NA	Solid	8021B	44226
890-3860-4	SW-3	Total/NA	Solid	8021B	44226
MB 880-44226/5-A	Method Blank	Total/NA	Solid	8021B	44226
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	8021B	44226
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44226
890-3860-1 MS	S-7	Total/NA	Solid	8021B	44226
890-3860-1 MSD	S-7	Total/NA	Solid	8021B	44226

Prep Batch: 44226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	5035	
890-3860-2	S-8	Total/NA	Solid	5035	
890-3860-3	SW-1	Total/NA	Solid	5035	
890-3860-4	SW-3	Total/NA	Solid	5035	
MB 880-44226/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3860-1 MS	S-7	Total/NA	Solid	5035	
890-3860-1 MSD	S-7	Total/NA	Solid	5035	

Analysis Batch: 44267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	Total BTEX	
890-3860-2	S-8	Total/NA	Solid	Total BTEX	
890-3860-3	SW-1	Total/NA	Solid	Total BTEX	
890-3860-4	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44154

Γ	011 40 4 10				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015NM Prep	
890-3860-2	S-8	Total/NA	Solid	8015NM Prep	
890-3860-3	SW-1	Total/NA	Solid	8015NM Prep	
890-3860-4	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-44154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3860-1 MS	S-7	Total/NA	Solid	8015NM Prep	
890-3860-1 MSD	S-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015B NM	44154
890-3860-2	S-8	Total/NA	Solid	8015B NM	44154
890-3860-3	SW-1	Total/NA	Solid	8015B NM	44154
890-3860-4	SW-3	Total/NA	Solid	8015B NM	44154
MB 880-44154/1-A	Method Blank	Total/NA	Solid	8015B NM	44154
LCS 880-44154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44154

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QC Association Summary

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

GC Semi VOA (Continued)

Analysis Batch: 44218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-44154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44154
890-3860-1 MS	S-7	Total/NA	Solid	8015B NM	44154
890-3860-1 MSD	S-7	Total/NA	Solid	8015B NM	44154

Analysis Batch: 44330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015 NM	
890-3860-2	S-8	Total/NA	Solid	8015 NM	
890-3860-3	SW-1	Total/NA	Solid	8015 NM	
890-3860-4	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Soluble	Solid	DI Leach	
890-3860-2	S-8	Soluble	Solid	DI Leach	
890-3860-3	SW-1	Soluble	Solid	DI Leach	
890-3860-4	SW-3	Soluble	Solid	DI Leach	
MB 880-44148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 44156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Soluble	Solid	300.0	44148
890-3860-2	S-8	Soluble	Solid	300.0	44148
890-3860-3	SW-1	Soluble	Solid	300.0	44148
890-3860-4	SW-3	Soluble	Solid	300.0	44148
MB 880-44148/1-A	Method Blank	Soluble	Solid	300.0	44148
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	300.0	44148
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44148

Eurofins Carlsbad

Client Sample ID: S-7

Client: Talon/LPE

Lab Sample ID: 890-3860-1 Date Collected: 01/12/23 10:01

Matrix: Solid

Date Received: 01/13/23 14:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 22:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 14:54	CH	EET MID

Client Sample ID: S-8 Lab Sample ID: 890-3860-2

Date Collected: 01/12/23 10:09

Matrix: Solid

Date Received: 01/13/23 14:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44154	01/17/23 13:25	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 23:30	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	44148	01/17/23 11:25	KS	EET MIC
Soluble	Analysis	300.0		5			44156	01/17/23 15:00	CH	EET MID

Client Sample ID: SW-1 Lab Sample ID: 890-3860-3 **Matrix: Solid**

Date Collected: 01/12/23 10:13 Date Received: 01/13/23 14:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 23:51	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 15:19	CH	EET MID

Client Sample ID: SW-3 Lab Sample ID: 890-3860-4

Date Collected: 01/12/23 10:25 Date Received: 01/13/23 14:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID

Eurofins Carlsbad

Page 17 of 25

Released to Imaging: 11/30/2023 7:57:02 AM

Matrix: Solid

Lab Chronicle

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Client Sample ID: SW-3 Lab Sample ID: 890-3860-4

Date Collected: 01/12/23 10:25

Date Received: 01/13/23 14:47

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/19/23 00:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 15:25	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	•	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
OU I S INIVI		Oolid	IOIAI II II	

0

8

10

11

13

Method Summary

Client: Talon/LPE Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
MCAWW	EET MID

EET MID

EET MID

EET MID

SW846

SW846

ASTM

Protocol References:

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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12

Sample Summary

Client: Talon/LPE Job ID: 890-3860-1

Solid

Solid

Solid

Project/Site: BIG SKY ABY STATE #1

S-7

S-8

SW-1

SW-3

Client Sample ID

Lab Sample ID

890-3860-1

890-3860-2

890-3860-3

890-3860-4

Matrix	Collected	Received	Depth	
Solid	01/12/23 10:01	01/13/23 14:47	6	

01/13/23 14:47 6

01/13/23 14:47 3

01/13/23 14:47 3

01/12/23 10:09

01/12/23 10:13

01/12/23 10:25

4

5

9

12

Relinquished by: (Signature)

Received by: (Signature)

1-13-03 144g

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

eurofins 🔆

Xenco

Environment Testing

Project Number:

Project Manager:

Bill to: (if different) Company Name:

Jermey Haas

EOG

Company Name:

City, State ZIP:

ddress:

408 W. Texas Ave. Talon LPE Chad Hensley

Artesia, NM 88210

Sampler's Name:

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

www.xenco.com	Work Order to Work Order to Work Order to Work Order to Program: UST/PST PRP Brow State of Project:
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ADaPT 🗆

roject Name: Project Number: Project Location: Rual County, NM Sampler's Name: Chad Hensley O #: N/A SAMPLE RECEIPT Samples Received Intact: Sample Custody Seals: Ves No VIA Telegrate	Due Date: TAT starts the d the lab, if receive No Wet Ice: ermometer ID: mperature Reading: mperature Reading: mrected Temperature: Date ampled Sampled 12/2023 10:09 6'	Parameters O to	ANALYSIS REQUEST ANALYSIS REQUEST Section of Custody Section of Custody
Soil	10:01	· · · · · · · · · · · · · · · · · · ·	
Soil	10:13	× ×	× >
Soil	1/12/2023 10:25 3'	Grab/ 1 × X	×
Total 200.7 / 6010 200.8 / 6020: Sircle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11 AI Sb As Ba Be E TCLP / SPLP 6010: 8RCRA Sb As Ba Be	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn e Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470/7471
ignature of this document and relinquishment o e. Eurofins Xenco will be liable only for the cost	of samples constitutes a valid purchase t of samples and shall not assume any	order from client company to Eurofin responsibility for any losses or expen	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions is service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

Chain of Custody Record

Custody Seals Intact: Custody Seal No ∆ Yes ∆ No	Relinquished by	reinquisned by	Individual Annual Annua	Empty Kit Relinquished by:	Deliverable Requested II, III IV Other (specify)	Unconfirmed	Possible Hazard Identification	Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.			SW-3 (890-3860-4)	SW-1 (890-3860-3)	S-8 (890-3860-2)	S-7 (890-3860-1)		Sample Identification - Client ID (Lab ID)	IG SKY ABY STATE #1	Project Name:	Email	Phone: 432-704-5440(Tel)	State ZIp: TX, 79701	Midland Midland	1211 W Florida Ave ,	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199
	Date/Time	Date/Time	Date/ Ime		Primary Deliverable Rank			onment Testing South Cen sted above for analysis/test th Central LLC attention i			1/12/23	1/12/23	1/12/23	1/12/23		Sample Date	89000060	Project #	WO#	PO#		TAT Requested (days)	1/19/2023		i co	Sampler	
				Date				tral LLC place s/matrix being mmediately It			10 25 Mountain	10 13 Mountain	10 09 Mountain	10 01 Mountain	X	Sample Time						ays)	ed				Chain
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	Company	Company	Company					ip of method a samples must accreditations			Solid	Solid	Solid	Solid	Preservation Code:	Watrix (V=water S=solid, O=waste/oil, BT=Tissue, A=Air)									Jessi	Lab PM Krame	Chain of Custody Record
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	Company	Company	Company			Months		analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes the current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.					777			Special Instructions/Note	other (specify)				Na2C4S Na2SO3 Na2S2O3		Hexane				Environment Testing

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3860-1

SDG Number:

Login Number: 3860 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

1/19/2023

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3860-1 SDG Number:

Login Number: 3860 List Source: Eurofins Midland List Number: 2 List Creation: 01/17/23 11:09 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210 Generated 1/30/2023 9:50:29 AM

JOB DESCRIPTION

Big Sky ABY State #001 SDG NUMBER 700438.306.01

JOB NUMBER

890-3954-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/30/2023 9:50:29 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Talon/LPE Laboratory Job ID: 890-3954-1
Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

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Definitions/Glossary

Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001

SDG: 700438.306.01

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Talon/LPE

Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Job ID: 890-3954-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3954-1

Receipt

The samples were received on 1/24/2023 1:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-8 (890-3954-1), SW-1 (890-3954-2) and SW-3 (890-3954-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-8 (890-3954-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SW-1 (890-3954-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-44944 and analytical batch 880-44886 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-3954-1

Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Client Sample ID: S-8

Date Collected: 01/23/23 07:15 Date Received: 01/24/23 13:07

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/25/23 12:57	01/26/23 02:34	
Toluene	< 0.000453	U	0.00199	0.000453	mg/Kg		01/25/23 12:57	01/26/23 02:34	
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/25/23 12:57	01/26/23 02:34	
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/23 12:57	01/26/23 02:34	
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		01/25/23 12:57	01/26/23 02:34	
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/23 12:57	01/26/23 02:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				01/25/23 12:57	01/26/23 02:34	
1,4-Difluorobenzene (Surr)	92		70 - 130				01/25/23 12:57	01/26/23 02:34	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/26/23 12:22	
wiethou: 344040 8015 NW - Dies	sei Kange Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Dies Analyte	Result	Qualifier	RL		Unit ma/Ka	<u>D</u>	Prepared	Analyzed 01/30/23 10:03	Dil Fa
Analyte Total TPH	Result 163	Qualifier	RL 49.9	MDL 15.0	Unit mg/Kg	D	Prepared	Analyzed 01/30/23 10:03	
Analyte Total TPH Method: SW846 8015B NM - Did	Result 163 esel Range Orga	Qualifier	RL 49.9	15.0	mg/Kg			01/30/23 10:03	
Analyte Total TPH Method: SW846 8015B NM - Did Analyte	Result 163 esel Range Orga Result	Qualifier Inics (DRO) Qualifier	RL 49.9 (GC)	15.0 MDL	mg/Kg	<u>D</u>	Prepared	01/30/23 10:03 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics	Result 163 esel Range Orga	Qualifier Inics (DRO) Qualifier	RL 49.9	15.0	mg/Kg			01/30/23 10:03	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 163 esel Range Orga Result	Qualifier Inics (DRO) Qualifier	RL 49.9 (GC)	15.0 MDL 15.0	mg/Kg		Prepared	01/30/23 10:03 Analyzed	Dil Fa
	Result 163 esel Range Orga Result 46.7	Qualifier unics (DRO) Qualifier J *1	RL 49.9 (GC) RL 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg		Prepared 01/27/23 16:20	01/30/23 10:03 Analyzed 01/28/23 03:14	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 163 esel Range Orga Result 46.7 91.9	Qualifier unics (DRO) Qualifier J *1	RL 49.9 (GC) RL 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/23 16:20 01/27/23 16:20	01/30/23 10:03 Analyzed 01/28/23 03:14 01/28/23 03:14	
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 163 esel Range Orga Result 46.7 91.9 24.6	Qualifier unics (DRO) Qualifier J *1	RL 49.9 (GC) RL 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/23 16:20 01/27/23 16:20 01/27/23 16:20	Analyzed 01/28/23 03:14 01/28/23 03:14 01/28/23 03:14	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 163 esel Range Orga Result 46.7 91.9 24.6 %Recovery	Qualifier unics (DRO) Qualifier J *1	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/23 16:20 01/27/23 16:20 01/27/23 16:20 Prepared	01/30/23 10:03 Analyzed 01/28/23 03:14 01/28/23 03:14 01/28/23 03:14 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 163	Qualifier Inics (DRO) Qualifier J*1 J Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/23 16:20 01/27/23 16:20 01/27/23 16:20 Prepared 01/27/23 16:20	01/30/23 10:03 Analyzed 01/28/23 03:14 01/28/23 03:14 01/28/23 03:14 Analyzed 01/28/23 03:14	Dil Fa

Client Sample ID: SW-1 Lab Sample ID: 890-3954-2 Matrix: Solid

25.3

1.99 mg/Kg

837

Date Collected: 01/23/23 07:23 Date Received: 01/24/23 13:07

Sample Depth: 3'

Chloride

 Method: SW846 8021B - Vol	latile Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Toluene	< 0.000455	U	0.00200	0.000455	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/23 12:57	01/26/23 02:54	1

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01/27/23 11:42

Client: Talon/LPE Job ID: 890-3954-1

Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Client Sample ID: SW-1 Lab Sample ID: 890-3954-2 Date Collected: 01/23/23 07:23 **Matrix: Solid**

Sample Depth: 3'

Date Received: 01/24/23 13:07

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	70 - 130	01/25/23 12:57	01/26/23 02:54	1
1,4-Difluorobenzene (Surr)	80	70 - 130	01/25/23 12:57	01/26/23 02:54	1
_					

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00101 U 0.00399 0.00101 mg/Kg 01/26/23 12:22

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed **Total TPH** 233 50.0 15.0 mg/Kg 01/30/23 10:03

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier D Analyte RL MDL Unit Prepared Analyzed Dil Fac 50.0 15.0 01/27/23 16:20 01/28/23 03:40 **Gasoline Range Organics** 46.8 J *1 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 15.0 mg/Kg 01/27/23 16:20 01/28/23 03:40 138 C10-C28) **Oll Range Organics (Over** 48.3 J 50.0 15.0 mg/Kg 01/27/23 16:20 01/28/23 03:40 C28-C36)

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed S1-01/27/23 16:20 1-Chlorooctane 63 70 - 130 01/28/23 03:40 o-Terphenyl 59 S1-70 - 130 01/27/23 16:20 01/28/23 03:40

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5.00 686 0.395 mg/Kg 01/27/23 12:00

Client Sample ID: SW-3 Lab Sample ID: 890-3954-3 Date Collected: 01/23/23 07:20 **Matrix: Solid**

Date Received: 01/24/23 13:07

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Toluene	< 0.000457	U	0.00200	0.000457	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		01/25/23 13:26	01/26/23 16:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				01/25/23 13:26	01/26/23 16:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/25/23 13:26	01/26/23 16:25	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00101 U 0.00401 0.00101 mg/Kg 01/26/23 12:22

Matrix: Solid

Lab Sample ID: 890-3954-3

Client Sample Results

Client: Talon/LPE

Job ID: 890-3954-1

Project/Site: Big Sky ABY State #001

SDG: 700438 306 01

Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Client Sample ID: SW-3
Date Collected: 01/23/23 07:20
Date Received: 01/24/23 13:07

Sample Depth: 3'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	662	49.9	15.0	mg/Kg			01/30/23 10:03	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.5	J *1	49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Diesel Range Organics (Over C10-C28)	471		49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Oll Range Organics (Over C28-C36)	147		49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/27/23 16:20	01/28/23 04:25	1
o-Terphenyl	79		70 - 130				01/27/23 16:20	01/28/23 04:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	372		4.99	0.394	mg/Kg			01/27/23 12:06	1

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Surrogate Summary

 Client: Talon/LPE
 Job ID: 890-3954-1

 Project/Site: Big Sky ABY State #001
 SDG: 700438.306.01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3954-1	S-8	67 S1-	92	
890-3954-2	SW-1	85	80	
890-3954-3	SW-3	84	90	
LCS 880-44726/1-A	Lab Control Sample	105	103	
LCS 880-44728/1-A	Lab Control Sample	112	104	
LCSD 880-44726/2-A	Lab Control Sample Dup	99	110	
LCSD 880-44728/2-A	Lab Control Sample Dup	110	105	
MB 880-44618/5-A	Method Blank	75	96	
MB 880-44726/5-A	Method Blank	71	91	
MB 880-44728/5-A	Method Blank	78	88	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3954-1	S-8	80	74	
890-3954-2	SW-1	63 S1-	59 S1-	
890-3954-3	SW-3	82	79	
LCS 880-44944/2-A	Lab Control Sample	92	94	
LCSD 880-44944/3-A	Lab Control Sample Dup	87	89	
MB 880-44944/1-A	Method Blank	116	117	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Talon/LPE Job ID: 890-3954-1 SDG: 700438.306.01 Project/Site: Big Sky ABY State #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44618/5-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44618

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Xylenes, Total	< 0.00101	U	0.00400	0.00101	mg/Kg		01/24/23 11:18	01/25/23 12:17	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepa	red Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	01/24/23	3 11:18 01/25/23 12:17	1
1,4-Difluorobenzene (Surr)	96	70 - 130	01/24/23	3 11:18 01/25/23 12:17	1

Lab Sample ID: MB 880-44726/5-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 44726

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Xvlenes Total	<0.00101	П	0.00400	0.00101	ma/Ka		01/25/23 12:57	01/25/23 23:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/25/23 12:57	01/25/23 23:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/25/23 12:57	01/25/23 23:29	1

Lab Sample ID: LCS 880-44726/1-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44726

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-44726/2-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Lab	Control Sample Dup
	Dren Trees Total/NA

Prep Type: Total/NA

Prep Batch: 44726

	Spike	LCSD LCSD				70Rec		KPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1045	mg/Kg		105	70 - 130	6	35	

LCCD LCCD

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Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001

SDG: 700438.306.01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-44726/2-A **Matrix: Solid**

Analysis Batch: 44694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 44726

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09298		mg/Kg		93	70 - 130	14	35
Ethylbenzene	0.100	0.08807		mg/Kg		88	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1817		mg/Kg		91	70 - 130	20	35
o-Xylene	0.100	0.09143		mg/Kg		91	70 - 130	19	35
, ,									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: MB 880-44728/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 44778

Prep Type: Total/NA

Prep Batch: 44728

мв мв Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.000385 U 0.00200 0.000385 mg/Kg 01/25/23 13:26 01/26/23 11:30 Toluene <0.000456 U 0.00200 0.000456 mg/Kg 01/25/23 13:26 01/26/23 11:30 Ethylbenzene <0.000565 U 0.00200 0.000565 mg/Kg 01/25/23 13:26 01/26/23 11:30 m-Xylene & p-Xylene 0.00400 0.00101 mg/Kg 01/25/23 13:26 01/26/23 11:30 <0.00101 U o-Xylene <0.000344 U 0.00200 0.000344 mg/Kg 01/25/23 13:26 01/26/23 11:30 <0.00101 U 0.00400 0.00101 mg/Kg Xylenes, Total 01/25/23 13:26 01/26/23 11:30

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	01/25/23 13:26	01/26/23 11:30	1
1.4-Difluorobenzene (Surr)	88	70 - 130	01/25/23 13:26	01/26/23 11:30	1

Lab Sample ID: LCS 880-44728/1-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44728

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1033		mg/Kg		103	70 - 130	
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1109		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2389		mg/Kg		119	70 - 130	
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-44728/2-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44728

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1082		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	2	35

Job ID: 890-3954-1 Client: Talon/LPE Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-44728/2-A

Matrix: Solid

Analysis Batch: 44778

Client Sample	ID:	Lab	Control	Sample	Dup
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Prep Type: Total/NA

Prep Batch: 44728

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	2	35
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44944/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 44886

Prep Type: Total/NA

Prep Batch: 44944

MB MB Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac Gasoline Range Organics <15.0 U 49.9 15.0 mg/Kg 01/27/23 16:20 01/27/23 22:09 (GRO)-C6-C10 Diesel Range Organics (Over <15.0 U 49.9 15.0 mg/Kg 01/27/23 16:20 01/27/23 22:09 C10-C28) OII Range Organics (Over C28-C36) <15.0 U 49 9 15.0 mg/Kg 01/27/23 16:20 01/27/23 22:09

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130		01/27/23 16:20	01/27/23 22:09	1
o-Terphenyl	117		70 - 130	C	01/27/23 16:20	01/27/23 22:09	1

Lab Sample ID: LCS 880-44944/2-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 44944

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 999 940.9 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 999 929.8 mg/Kg 93 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	94	70 - 130

Lab Sample ID: LCSD 880-44944/3-A

Matrix: Solid

C10-C28)

Analysis Batch: 44886

Client Sample	ו יחו	l ah	Control	Sample	Dun

Prep Type: Total/NA Prep Batch: 44944

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	999	747.1	*1	mg/Kg		75	70 - 130	23	20
(GRO)-C6-C10									
Diesel Range Organics (Over	999	864.6		mg/Kg		87	70 - 130	7	20

Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-44944/3-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: S-8

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Batch: 44944

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44891/1-A

Matrix: Solid

Analysis Batch: 44905

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <0.395 U 0.395 mg/Kg 01/27/23 11:23

Lab Sample ID: LCS 880-44891/2-A

Matrix: Solid

Analysis Batch: 44905

LCS LCS Spike %Rec Analyte Added Qualifier Result Unit D %Rec Limits Chloride 250 251.6 101 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-44891/3-A

Matrix: Solid

Analysis Batch: 44905

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 254.1 102 90 - 110 mg/Kg

Lab Sample ID: 890-3954-1 MS

Matrix: Solid

Analysis Batch: 44905

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier %Rec Limits Unit D 1260 108 Chloride 837 2195 mg/Kg 90 - 110

Lab Sample ID: 890-3954-1 MSD

Released to Imaging: 11/30/2023 7:57:02 AM

Matrix: Solid

Analysis Batch: 44905

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride 837 1260 2199 108 mg/Kg 90 - 110 20

Client Sample ID: S-8

Prep Type: Soluble

QC Association Summary

Client: Talon/LPE

Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1 SDG: 700438.306.01

GC VOA

Prep Batch: 4	44618
---------------	-------

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44618/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8021B	44726
890-3954-2	SW-1	Total/NA	Solid	8021B	44726
890-3954-3	SW-3	Total/NA	Solid	8021B	44726
MB 880-44618/5-A	Method Blank	Total/NA	Solid	8021B	44618
MB 880-44726/5-A	Method Blank	Total/NA	Solid	8021B	44726
LCS 880-44726/1-A	Lab Control Sample	Total/NA	Solid	8021B	44726
LCSD 880-44726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44726

Prep Batch: 44726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	5035	
890-3954-2	SW-1	Total/NA	Solid	5035	
890-3954-3	SW-3	Total/NA	Solid	5035	
MB 880-44726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 44728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-3	SW-3	Total/NA	Solid	5035	<u> </u>
MB 880-44728/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44728/1-	A Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44728/2	2-A Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-3	SW-3	Total/NA	Solid	8021B	44728
MB 880-44728/5-A	Method Blank	Total/NA	Solid	8021B	44728
LCS 880-44728/1-A	Lab Control Sample	Total/NA	Solid	8021B	44728
LCSD 880-44728/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44728

Analysis Batch: 44819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	Total BTEX	
890-3954-2	SW-1	Total/NA	Solid	Total BTEX	
890-3954-3	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 44886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015B NM	44944
890-3954-2	SW-1	Total/NA	Solid	8015B NM	44944
890-3954-3	SW-3	Total/NA	Solid	8015B NM	44944
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015B NM	44944
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44944
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44944

Eurofins Carlsbad

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QC Association Summary

Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

GC Semi VOA

Prep Batch: 44944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015NM Prep	
890-3954-2	SW-1	Total/NA	Solid	8015NM Prep	
890-3954-3	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015 NM	
890-3954-2	SW-1	Total/NA	Solid	8015 NM	
890-3954-3	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Soluble	Solid	DI Leach	
890-3954-2	SW-1	Soluble	Solid	DI Leach	
890-3954-3	SW-3	Soluble	Solid	DI Leach	
MB 880-44891/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44891/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44891/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3954-1 MS	S-8	Soluble	Solid	DI Leach	
890-3954-1 MSD	S-8	Soluble	Solid	DI Leach	

Analysis Batch: 44905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Soluble	Solid	300.0	44891
890-3954-2	SW-1	Soluble	Solid	300.0	44891
890-3954-3	SW-3	Soluble	Solid	300.0	44891
MB 880-44891/1-A	Method Blank	Soluble	Solid	300.0	44891
LCS 880-44891/2-A	Lab Control Sample	Soluble	Solid	300.0	44891
LCSD 880-44891/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44891
890-3954-1 MS	S-8	Soluble	Solid	300.0	44891
890-3954-1 MSD	S-8	Soluble	Solid	300.0	44891

44905

01/27/23 12:00

СН

Client: Talon/LPE Job ID: 890-3954-1 Project/Site: Big Sky ABY State #001 SDG: 700438.306.01

Client Sample ID: S-8 Lab Sample ID: 890-3954-1

Date Collected: 01/23/23 07:15 **Matrix: Solid** Date Received: 01/24/23 13:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44726	01/25/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44694	01/26/23 02:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44819	01/26/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			45003	01/30/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44944	01/27/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 03:14	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44891	01/27/23 09:30	KS	EET MID
Soluble	Analysis	300.0		5			44905	01/27/23 11:42	CH	EET MID

Client Sample ID: SW-1 Lab Sample ID: 890-3954-2

Date Collected: 01/23/23 07:23 **Matrix: Solid** Date Received: 01/24/23 13:07

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 44726 01/25/23 12:57 MNR EET MID 8021B Total/NA 5 mL 01/26/23 02:54 **EET MID** Analysis 1 5 mL 44694 MNR Total/NA Total BTEX 44819 01/26/23 12:22 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 45003 01/30/23 10:03 SM **EET MID** Total/NA 8015NM Prep 10.01 g 44944 Prep 10 mL 01/27/23 16:20 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 44886 01/28/23 03:40 ΑJ **EET MID** Soluble KS Leach DI Leach 5 g 50 mL 44891 01/27/23 09:30 **EET MID**

Lab Sample ID: 890-3954-3 **Client Sample ID: SW-3**

Date Collected: 01/23/23 07:20 **Matrix: Solid** Date Received: 01/24/23 13:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	44726	01/25/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44694	01/26/23 04:16	MNR	EET MIC
Total/NA	Prep	5035			5.01 g	5 mL	44728	01/25/23 13:26	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	44778	01/26/23 16:25	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			44819	01/26/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			45003	01/30/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44944	01/27/23 16:20	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 04:25	AJ	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	44891	01/27/23 09:30	KS	EET MID
Soluble	Analysis	300.0		1			44905	01/27/23 12:06	CH	EET MID

Laboratory References:

Soluble

Analysis

300.0

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Released to Imaging: 11/30/2023 7:57:02 AM

EET MID

Accreditation/Certification Summary

 Client: Talon/LPE
 Job ID: 890-3954-1

 Project/Site: Big Sky ABY State #001
 SDG: 700438.306.01

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	, , ,	

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Method Summary

Client: Talon/LPE

Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1

SDG: 700438.306.01

	_	
Laboratory		
EETAND	- 1	

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE

Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1

SDG: 700438.306.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-3954-1	S-8	Solid	01/23/23 07:15	01/24/23 13:07	6'
890-3954-2	SW-1	Solid	01/23/23 07:23	01/24/23 13:07	3'
890-3954-3	SW-3	Solid	01/23/23 07:20	01/24/23 13:07	3'

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

Relinquished by: (Signature)

NYCO

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1 Kr.

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.

Received by: (Signature)

f service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

otice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

S

8RCRA 13PPM Texas 11 Al Sb As Ba Be B

eurofins

Phone:

City, State ZIP

Artesia, NM 88210

408 W. Texas Ave. Talon LPE

575.746.8768

Big Sky ABY State #001

700438.306.01

Company Name: Project Manager:

Chad Hensley

Bill to: (if different)

Company Name:

EOG Jeremy Haass

Samples Received Intact SAMPLE RECEIPT

Temp Blank: (es)

Wet Ice:

Yes N_O

Parameters

DM DO

N/A

No

Sample Custody Seals:

Sample Identification

Matrix

Date

Time

Depth

of

CL

BTEX

ТРН

Sampled

SW-3 SW-1

1/23/2023 1/23/2023 1/23/2023 Sampled

7:20

ω ယ္ တ

Grab/ Grab/ Grab/ Comp Cont Grab/

7:23 7:15 ooler Custody Seals:

Yes Yes

NO N/A NOTWIA

Temperature Reading: Correction Factor: Thermometer ID: (Yes) No

Corrected Temperature:

Sampler's Name

Project Location

Rual County, NM Chad Hensley

Due Date:

1/28/2023

Routine

√Rush

Turn Around

Chensley@talonlpe.com

City, State ZIP

TAT starts the day received by the lab, if received by 4:30pm

Project Number Project Name:

> Xenco **Environment Testing**

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

Ca Cr Co Cu Fe Pb							890-3954 Chain of Custody								ANALYSIS REQUEST						
Mg Mn Mo Ni K Se Ag SiO ₂															QUEST	Deliverables: EDD	Reporting: Level III Level III PST/UST TRRP	State of Project:	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	Work Order Comments	www.xenco.com
Na Sr TI Sn U V Zn					Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	T Other:	T/UST TRRP Level IV	1	nfields 🗌 RRC 🗎 Superfund 🔲	Comments	

Hg: 1631 / 245.1 / 7470 / 7471

Login Sample Receipt Checklist

 Client: Talon/LPE
 Job Number: 890-3954-1

 SDG Number: 700438.306.01

Login Number: 3954
List Source: Eurofins Carlsbad
List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3954-1 SDG Number: 700438.306.01

Login Number: 3954 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").



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

August 02, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/26/2023 Reported: 08/02/2023

Project Name: BIG SKY ABY STATE #1

Project Number: 700438.306.01

Project Location: EOG - LEA COUNTY, NM

Sampling Date: 07/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: SW - 1 (H233915-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	204	102	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	228	114	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Relinquished

Relinquished By:

Date: Time:

Received By:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No

Add'l Phone #: Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (5/5) 393-24/6	0		
Company Name: Talon LPE		BILL TO	ANALYSIS REQUEST
Project Manager: C. Hensley		P.O. #:	
Address: 408 W. Texas Ave		Company: EOG	
city: Artesia state: NM	zip: 88210	Attn-J.Haass	
46.8768		Address:	
Project #: 700438.306.01 Project owner: EOG	r:EOG	City:	
Y Stat		State: Zip:	
Project Location: Lea County		Phone #:	
Sampler Name: N. Rose		1	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME CL	BTEX TPH
Sw-1	C 1	7/26/3 08/15	<
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 2.90

Cool Intact Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 286570

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	286570
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/30/2023