Received by OCD: 1/4/2023 7:04:36 AM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗙 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗙 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗙 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗶 No

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

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

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

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

Incident ID District RP Facility ID	NAB1822127797 2RP-4900
	2RP-4900
Facility ID	
Application ID	
23	eases which may endanger nould their operations have n or the environment. In
01/04/2023	
	Application ID edge and understand that purs orm corrective actions for rel ve the operator of liability sh surface water, human health compliance with any other for Professional 23 75-748-1838

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Oil Conservation Division

Incident ID	NAB1822127797
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# Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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



January 3, 2023

NMOCD District 2 811 S. First Street Artesia, NM 88210

#### Re: Site Remediation and Closure Report Parkway West SWD #001 API No. 30-015-40835 GPS: Latitude 32.635483 Longitude -104.071270 UL "D", Sec. 27, T19S, R29E Eddy County, NM NMOCD Ref. No. NAB1822127797

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the Parkway West SWD #001 (Parkway). The initial C-141 was submitted on July 25, 2018 (Appendix C). This incident was assigned Incident ID NAB1822127797, by the New Mexico Oil Conservation Division (NMOCD).

#### Site Characterization

The Parkway is located approximately seventeen (17) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 27, Township 19S, Range 29E, Latitude 32.635483, Longitude -104.071270, in Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of the Rustler Formation-Siltstone, gypsum, sandstone, and dolomite (Upper Permian). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area consists of two types; Kimbrough-Stegall loams and Reeves-Gypsum land complex, both of which have 0 to 3 percent slopes. (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology around the Parkway (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey, depth to the nearest groundwater is 67 feet BGS. The closest waterway is a salt pond located approximately 4.73 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29										
Depth to Groundwater (Appendix A)	Constituent & Limits									
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene					
<50' (High Karst)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg					
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg					
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg					

Reference Figure 2 for a Topographic Map.

#### **Release Information**

**NAB1822127797**: On July 21, 2018, Water hauler left load line valve open spilling approximately 73 barrels (bbls) of produced water. Water released to location pad; immediately began recovering fluids. (PW: Spilled – 73 bbls, Rec. – 55 bbls, Lost – 18 bbls. All fluid remained on the pad.

#### Site Assessment and Soil Sampling Results

On September 15, 2020, Pima Environmental conducted a site assessment and obtained soil samples from the affected area on the pad. Laboratory results of this sampling event can be seen in the following data table. Figure 4 references a Site Map.

NINOCD							lwater is 51-	100)		
		EVON EN	VERGY - PA		and the second					
Sample Dat	e 9-15-20	NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg		
S-1	0-6"	ND	ND	ND	ND	ND	ND	448		
S-2	0-6"	ND	ND	ND	ND	ND	ND	640		
1.000	0-6"	ND	ND	ND	ND	ND	ND	688		
S-3	1'	ND	ND	ND	ND	ND	ND	160		
5-5	2'	ND	ND	ND	ND	ND	ND	112		
	3'	ND	ND	ND	ND	ND	ND	96		
S-4	0-6"	ND	ND	ND	ND	ND	ND	1230		
	1'	ND	ND	ND	ND	ND	ND	1040		
S-5	0-6"	ND	ND	ND	ND	ND	ND	1920		
5-5	1'	ND	ND	ND	ND	ND	ND	256		
S-6	0-6"	ND	ND	ND	13.5	ND	13.5	8640		
S-7	0-6"	ND	ND	ND	ND	ND	ND	1540		
S-8	0-6"	ND	ND	ND	17.6	ND	17.6	22200		
S-9	0-6"	ND	ND	ND	ND	ND	ND	14600		
S-10	2'	ND	ND	ND	12.7	ND	12.7	10600		
S-11	0-6"	ND	ND	ND	13.5	ND	13.5	35600		
S-12	2'	ND	ND	ND	ND	ND	ND	17200		
S-13	0-6"	ND	ND	ND	ND	ND	ND.	17200		
5-15	1'	0.842	ND	ND	13.5	23.2	37.542	19200		
S-14	0-6"	0.319	ND	ND	66.5	34.2	101.019	17000		
	0-6"	ND	ND	ND	23.5	ND	23.5	11000		
S-15	1'	ND	ND	ND	ND	ND	ND	2200		
	2'	ND	ND	ND	ND	ND	ND	784		
S-16	0-6"	ND	ND	ND	20.5	10.9	31.4	12900		
S-17	0-6"	ND	ND	ND	ND	ND	ND	9860		
	0-6"	ND	ND	ND	ND	ND	ND	10500		
S-18	1'	ND	ND	ND	ND	ND	ND	1710		
5 10	2'	ND	ND	ND	ND	ND	ND	1340		
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	3'	ND	ND	ND	ND	ND	ND	1840		
S-19	0-6"	ND	ND	ND	ND	ND	ND	46000		
S-20	0-6"	ND	ND	ND	ND	ND	ND	2600		
S-21	0-6"	ND	ND	ND	ND	ND	ND	880		
BG-1	0-6"	ND	ND	ND	ND	ND	ND	720		
BG-2	0-6"	0.314	ND	ND	ND	ND	ND	144		
BG-3	0-6"	0.314	ND	ND	ND	ND	ND	112		

9-15-20 Soil Sample Results

ND- Analyte Not Detected

On November 23, 2020, Pima returned to the site with a Geoprobe to complete the delineation process of this affected area. The results of this sampling event can be seen in the following table. Figure 5 references a GeoProbe Map.

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Devon	Energy - Parkway	Vest SVD #1					
Sample Date 11-23-20 Sample ID Depth (BGS) Chlorides mg/kg							
Sample ID	Depth (BGS)	Chlorides mg/kg					
	1	960					
B-1	2	48					
	2.5	64					
	1	1860					
B-2	2	352					
	2.5	160					
	1	1330					
B-3	2	1010					
	2.5	624					
	1	240					
B-4	2	160					
	2.5	320					
B-5	1	160					
B-5 B-6	2	80					
	2.5	96					
B-6	1	3920					
	2	752					
	2.5	192					
B-7	1	720					
	2	416					
	2.5	640					
	1	192					
B-8	2	80					
	3	80					
	1	96					
B-9	2	192					
	2.5	352					
100 C	1	656					
B-10	2	368					
	2.5	160					
	1	1380					
B-11	2	128					
10-10 - 1-1	2.5	96					
	1	224					
B-12	2	32					
	2.5	48					
	1	320					
B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11	2	96					
	2.5	48					

#### 11-23-20 Soil Sample Results NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Hig

#### **Remediation Activities**

On December 29, 2020, Pima mobilized personnel and equipment to conduct remedial activities. We began excavating the contaminated material from the affected area, hauling it to Lea Land disposal, then hauling in clean material for backfill. Samples were taken from the sidewalls as we excavated. The results of this first sampling event can be seen in the following data table. Photographic documentation can be found in Appendix D.

		12-	-31-20 Soi	il Sample	e Results			
N	MOCD Ta	ble 1 Clos	sure Criteria	19.15.29	NMAC (H	IGH KARS	T AREA)	
		Deve	on Energy - I	Parkway V	Vest SWD	1		
Sample Date 12-31-20 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N Wall Comp1	1	ND	ND	ND	10.7	ND	10.7	96
N Wall Comp2	1	ND	ND	ND	ND	ND	ND	48
N Wall Comp3	1	ND	ND	ND	ND	ND	ND	96
N Wall Comp4	1	ND	ND	ND	ND	ND	ND	64
W Wall Comp1	1	ND	ND	ND	ND	ND	ND	144
W Wall Comp2	1	ND	ND	ND	ND	ND	ND	144
W Wall Comp3	1	ND	ND	ND	ND	ND	ND	3120
W Wall Comp4	1	ND	ND	ND	ND	ND	ND	1960

ND - Analyte Not Detected

On January 8, 2021, Pima continued to the remediate the affected area. We continued to take samples from the sidewalls to confirm that the contamination had been removed horizontally. The results of this sampling event can be seen in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')												
-	DEVON ENERGY - PARKWAY WEST UNIT #1 SWD											
Sample Date 3	1-8-21		1	MM Appro	oved Labor	atory Res	sults	-				
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg				
East Wall 1	1'	ND	ND	ND	ND	ND	ND	64				
East Wall 2	1'	ND	ND	ND	ND	ND	ND	80				
East Wall 3	1'	ND	ND	ND	ND	ND	ND	64				
East Wall 4	1'	ND	ND	ND	ND	ND	ND	80				
South Wall 1	1'	ND	ND	ND	ND	ND	ND	96				
South Wall 2	1'	ND	ND	ND	ND	ND	ND	96				
South Wall 3	1'	ND	ND	ND	ND	ND	ND	96				
South Wall 4	1'	ND	ND	ND	ND	ND	ND	80				
South Wall 5	1'	ND	ND	ND	ND	ND	ND	112				
South Wall 6	1'	ND	ND	ND	ND	ND	ND	80				
South Wall 7	1'	ND	ND	ND	ND	ND	ND	96				
South Wall 8	1'	ND	ND	ND	ND	ND	ND	80				
West Wall 3	1'	ND	ND	ND	ND	ND	ND	144				
West Wall 4	1'	ND	ND	ND	ND	ND	ND	128				

#### 1-8-21 Soil Sample Results

ND- Analyte Not Detected

On February 9 and 10, 2021, Pima continued to excavate and collect samples to confirm the contamination had been removed. The results of this sampling event can be seen in the following tables. Figure 6 references an Excavation Map-Sidewalls.

NMOCD	Table 1	Closure (	1. A. T. M.	a contract of the same	AC (Denti	the second second	ndwater is 51	-100')	
	10010 2		ENERGY - F					,	
Sample Date 2-9-21 NM Approved Laboratory Results									
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg	
East-1	0	ND	ND	ND	ND	ND	ND	1410	
East-2	0	ND	ND	ND	ND	ND	ND	160	
South-3	0	ND	ND	ND	ND	ND	ND	752	
South-4	0	ND	ND	ND	ND	ND	ND	144	
West-5	0	ND	ND	ND	ND	ND	ND	160	
West-6	0	ND	ND	ND	ND	ND	ND	1310	
North-7	0	ND	ND	ND	ND	ND	ND	2480	
North-8	0	ND	ND	ND	ND	ND	ND	240	

#### 2-9-21 Soil Sample Results

NMOCD	Table 1 C	losure C	riteria 19.1	5.29 NM	AC (Depth	to Groun	dwater is 51	-100')
		DEVON	ENERGY - P	ARKWAY	WEST UN	T #1 SWD	k	
Sample Date 2-10-21 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
SW-1	0	ND	ND	ND	ND	ND	ND	256
SW-2	0	ND	ND	ND	ND	ND	ND	432
WW-3	0	ND	ND	ND	ND	ND	ND	192
WW-4	0	ND	ND	ND	ND	ND	ND	432
WW-5	0	ND	ND	ND	ND	ND	ND	400

ND – Analyte Not Detected

On February 20, 2021, Pima collected confirmation samples from the excavation to confirm all contamination had been removed. The excavation was then backfilled with clean, like material and repacked so the site could be put back in service.

After much searching and researching, the data from this sampling event could not be found. It was concluded that these samples were lost and never sent to the lab for official confirmation. It was also concluded that a 48-hour notification was never sent to the NMOCD.

On May 21, 2021, after sending a 48-hour notification via email, Pima returned to the site to collect confirmation samples from the remediated area. The results of this sampling event can be seen in the following data table. Figure 7 references a Confirmation Sample Map.

BMOC	D Table		1 Confirm e Criteria I				ilts roundwater i	s 50'1
		1.10 A 274 A 1	ON ENERG					
Date 5/21	1/21	-	10 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		red Labor	Carl Street and Carl	alts	
Sample ID	Depth (BGS)	BTEX	Beazese mg/bg	GR0 mg/kg	DR0 mg/kg	MR0 ng/tg	Total TPH mg/kg	Cl mg/kg
CS-1	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-2	0	ND	ND	ND	ND	ND	ND	ND
10000	1	ND	ND	ND	ND	ND	ND	5.68
CS-3	0	ND	ND	ND	ND	ND	ND	ND
and the second	1	ND	ND	ND	ND	ND	ND	5.71
CS-4	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	5.21
CS-5	0	ND	ND	ND	ND	ND	ND	ND
1 C C C	1	ND	ND	ND	ND	ND	ND	6.56
CS-6	0	ND	ND	ND	ND	ND	ND	15.2
	1	ND	ND	ND	ND	ND	ND	ND
CS-7	0	ND	ND	ND	ND	ND	ND	ND
-	1	ND	ND	ND	ND	ND	ND	ND
CS-8	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-9	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-10	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-11	Ŭ,	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-12	0	ND	0.0035	ND	ND	ND	ND	5.39
- X - X W	1	ND	ND	ND	ND	ND	ND	6.73
CS-13	0	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
CS-14	0	ND	ND	ND	ND	ND	ND	5.98
	1	ND	ND	ND	ND	ND	ND	173
CS-15	0	ND	ND	ND	ND	ND	ND	10.4
	1	ND	ND	ND	ND	ND	ND	5.21
CS-16	Ŭ	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	6.44
CS-17	0	ND	ND	ND	ND	ND	ND	8.27
-	1	ND	ND	ND	ND	ND	ND	ND
CS-18	0	ND	ND	ND	ND	ND	ND	ND
	1 O	ND	ND	ND	ND	ND	ND	ND
CS-19	0	ND	ND	ND	ND	ND	ND	ND
	1 0	ND	ND	ND	ND	ND	ND	ND
CS-20	1	ND	ND	ND	ND	ND	ND ND	ND
		ND	ND	ND	ND	ND		ND 10 J
CS-21	0	ND	ND	ND	ND	ND	ND	18.4
	1	ND	ND	ND	ND	ND	ND	ND
CS-22	0	ND	ND	ND	ND	ND	ND	6.1
	1	ND	ND	ND	ND	ND	ND	5.38
CS-23	0 1	ND	ND	ND	ND	ND	ND	ND
		ND		ND	ND	ND	ND	5.44

5-21-21 Confirmation Soil Sample Results

ND – No Analyte Detected

Complete Laboratory Reports can be found in Appendix E.

#### **Closure Request**

After careful review, Pima requests that this incident, NAB1822127797, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

#### **Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- GeoProbe Map
- 6- Excavation Map-Sidewalls
- 7- Confirmation Sample Map

Appendices:

- Appendix A Referenced Water Surveys
- Appendix B Soil Survey and Geological Data
- Appendix C C-141 Form & 48-Hour Notification
- Appendix D Photographic Documentation
- Appendix E Laboratory Reports

.



## Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

5-GeoProbe Map

6-Excavation Map-Sidewalls

7-Confirmation Sample Map





#### Received by OCD: 1/4/2023 7:04:36 AM

# Parkway West SWD 1

Devon Energy API #30-015-40835 Eddy County, NM Karst Map High Karst

Low Karst Medium Karst

Parkway West SWD 1



N











## Appendix A

Water Surveys: OSE USGS Surface Water Map



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fil closed)	laced, ned,							V 2=NE est to la	3=SW 4=SI rgest) (N	E) NAD83 UTM in m	eters)	(In fe	eet)	
		POD Sub-		-	Q	-								W	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Y	DistanceDep	thWellDept	hWater Co	lumn
<u>CP 00741</u>		СР	ED	1	3	2	34	19S	29E	588030	3609533* 🌍	1906	230	60	170
<u>CP 00681</u>		СР	ED	1	1	3	34	19S	29E	587230	3609127* 🌍	2143			
<u>CP 00698 POD1</u>		СР	ED		3	1	03	20S	29E	587393	3608010 🌍	3263			
<u>CP 00830 POD1</u>		СР	LE		2	1	04	20S	29E	586118	3608193* 🌍	3277	120		
<u>CP 00739 POD1</u>		СР	ED	3	4	4	35	19S	29E	590068	3608622 🌍	3870	200	110	90
											Averag	ge Depth to Wate	r:	85 fee	t
												Minimum Dej	oth:	60 fee	t
												Maximum Dep	th:	110 fee	t
Record Count: 5															
UTMNAD83 Radius	Search (ii	<u>1 meters</u>	<u>):</u>												
<b>Easting (X):</b> 587	245.47		North	ning	<b>(Y</b> )	):	3611	270.81	l		<b>Radius:</b> 4000				
*UTM location was derived	from PLSS	- see Helj	)												
The data is furnished by the N accuracy, completeness, reliable	MOSE/ISC ility, usabilit	and is ac y, or suita	cepted by the bility for an	ne re iy pa	cipi rticu	ent ılar	with t purpo	the expr ose of th	essed un e data.	iderstanding t	hat the OSE/ISC ma	ike no warranties,	expressed or im	plied, concerr	ing the
2/12/21 9:04 AM		-	-									WATER COL WATER	UMN/ AVER	AGE DEPTH	I TO



USGS Home Contact USGS Search USGS

**National Water Information System: Web Interface** 

Data Category: Groundwater

Geographic Area: United States

GO

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GO

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## Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- <u>Full News</u> 🔊
- NOTICE: Feb 10, 2021 17:30ET 18:23ET Data Transmissions were impacted by an unplanned system maintenance outage. Data are now processing.

Groundwater levels for the Nation

\* IMPORTANT: Next Generation Station Page

# Search Results -- 1 sites found

site\_no list =

• 323900104052901

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

# USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'00", Longitude 104°05'29" NAD27

Land-surface elevation 3,306 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-02-12 11:06:14 EST 0.66 0.58 nadww02







## Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map

## Eddy Area, New Mexico

#### KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

#### Map Unit Setting

National map unit symbol: 1w4t Elevation: 2,750 to 5,000 feet Mean annual precipitation: 8 to 16 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 230 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough and similar soils: 70 percent Stegall and similar soils: 25 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Kimbrough**

#### Setting

Landform: Alluvial fans, plains Landform position (three-dimensional): Rise, talf Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

#### **Typical profile**

H1 - 0 to 3 inches: loam H2 - 3 to 9 inches: loam H3 - 9 to 60 inches: indurated

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 8 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.3 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s

*Hydrologic Soil Group:* D *Ecological site:* R042XC025NM - Shallow *Hydric soil rating:* No

#### **Description of Stegall**

#### Setting

Landform: Alluvial fans, plains Landform position (three-dimensional): Rise Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

#### **Typical profile**

H1 - 0 to 5 inches: loam H2 - 5 to 28 inches: clay loam H3 - 28 to 32 inches: indurated H4 - 32 to 60 inches: variable

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
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: 90 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Low (about 4.8 inches)

#### Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e Hydrologic Soil Group: C Ecological site: R042XC007NM - Loamy Hydric soil rating: No

#### **Minor Components**

#### Simona

Percent of map unit: 5 percent Ecological site: R042XC002NM - Shallow Sandy Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

## Eddy Area, New Mexico

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

#### Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 190 to 235 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Reeves and similar soils: 55 percent Gypsum land: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Reeves**

#### Setting

Landform: Hills, plains, ridges Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Crest, nose slope, side slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

#### **Typical profile**

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

#### **Properties and qualities**

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water capacity: Low (about 4.3 inches)

#### Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: B Ecological site: R042XC007NM - Loamy Hydric soil rating: No

#### **Description of Gypsum Land**

#### Setting

Landform: Hills, plains, ridges Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Crest, nose slope, side slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

#### **Minor Components**

#### Cottonwood

Percent of map unit: 5 percent Ecological site: R042XC033NM - Salty Bottomland Hydric soil rating: No

#### Reagan

Percent of map unit: 5 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

#### Largo

Percent of map unit: 5 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



# Received by OCD: 1/4/2023 7:04:36 AM National Flood Hazard Layer FIRMette



## Legend

Page 28 of 262



Releasea to Imaging: 1/24/2023 92.30:40 PM 1,500 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

regulatory purposes.

### Page 29 of 262



#### December 16, 2022

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

**Freshwater Pond** 

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

#### **Released to Imaging: 1/24/2023 12:30:40 PM**

National Wetlands Inventory (NWI) This page was produced by the NWI mapper



## Appendix C

C-141 Form 48-Hour Notification

•

		OCD Rec'd: 08	/06/18		
District II Energy Mine	e of New Mexico rals and Natural Resour	rces	Form C-141 Revised April 3, 2017		
811 S. First SL, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S         1220 S	nservation Division outh St. Francis Dr. ta Fe, NM 87505		Copy to appropriate District Office in accordance with 19.15.29 NMAC.		
	tion and Correcti	ve Action			
NAB1822127797	<b>OPERATOR</b>	$\boxtimes$	Initial Report 🔲 Final Report		
Name of Company Devon Energy Production Company	Contact Aaron Kidd;		1 Services		
Address 6488 Seven Rivers Hwy Artesia, NM 88210 Facility Name Parkway West SWD 1	Telephone No. 575-7 Facility Type Salt Wa				
			IN- 20 015 40925		
Surface Owner State Mineral Ow			I No.30-015-40835		
	TION OF RELEASE				
Unit LetterSectionTownshipRangeFeet from theID2719S29E	North/South Line Feet from	n the East/West L	ine County Eddy		
Latitude_32.635483 N	Longitude -104.07127	0 W_NAD83			
	RE OF RELEASE				
Type of Release Produced Water Source of Release Load Line	Volume of Release 7 Date and Hour of Oc		Volume Recovered 55 BBLS Date and Hour of Discovery		
	7/21/2018 @ 4:30 A	7/21/2018 @ 4:30 AM MST 7/21/2018 @ 4:30 AM MST			
Was Immediate Notice Given?	If YES, To Whom? ENMRD Mike Bratcher and Maria Pruett				
By Whom? Brett Fulks; EHS Professional	Date and Hour OCD and BLM 7/22	OCD and BLM 7/22/2018 @ 9:33 PM MST			
Was a Watercourse Reached?	If YES, Volume Imp N/A	If YES, Volume Impacting the Watercourse. N/A			
If a Watercourse was Impacted, Describe Fully.* N/A	L				
Describe Cause of Problem and Remedial Action Taken.* Water hauler left load line valve open spilling approximately 73 bar	rels of produced water.				
Describe Area Affected and Cleanup Action Taken.* Water released to location pad; immediately began recovering fluids	. (PW: Spilled - 73 bbls., Red	c 55 bbls., Lost - 18	s bbls.)		
I hereby certify that the information given above is true and complein regulations all operators are required to report and/or file certain rele- public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem- or the environment. In addition, NMOCD acceptance of a C-141 re- federal, state, or local laws and/or regulations.	ease notifications and perform by the NMOCD marked as " mediate contamination that po	n corrective actions for Final Report" does no se a threat to ground	or releases which may endanger of relieve the operator of liability water, surface water, human health		
	OIL	CONSERVATI	ON DIVISION		
Signature: Tamala J. Robison Printed Name: Tamala J. Robison	Approved by Environm	nental Specialist: M	laria Pruetti		
Title: Field Admin Support	Approval Date: 8/1		ntion Date: N/A		
E-mail Address: Tamala.Robison@dvn.com	Conditions of Approva		Attached D		
Date: 7/25/2018 Phone: 575-748-3371 Attach Additional Sheets If Necessary		Se attach	<u>01                                    </u>		

Page 3

Oil Conservation Division

Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

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# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗙 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗙 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

age 4	7:04:36 AM State of New Oil Conservation		Incident ID District RP	NAB1822127797	
age <del>4</del>	On Conservation			NAB1822127797 2RP-4900	
			Facility ID		
			Application ID		
public health or the environm failed to adequately investiga	nent. The acceptance of a C-14 ate and remediate contaminatio a C-141 report does not reliev	ertain release notifications and performance of the occollege not relies not relies not the pose a threat to groundwater e the operator of responsibility for Title: EHS F	we the operator of liability s , surface water, human heal compliance with any other f Professional	should their operations have th or the environment. In	
email: dale.woodall@			75-748-1838		

Page 6

Oil Conservation Division

Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

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# Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Dale Woodall	Title: EHS Professional					
Signature: Dale Woodall	Date: 1/4/2023					
email: dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>					
OCD Only						
Received by: OCD	Date: 01/04/2023					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by: Ashley Maxwell	Date: 1/24/2023					
Printed Name: Ashley Maxwell	Title: Environmental Specialist					

From:	Tom Pima Oil
To:	ocdonline@state.nm.us; Marcus, Ramona, EMNRD; Billings, Bradford, EMNRD; Eads, Cristina, EMNRD; Venegas,
	Victoria, EMNRD; Smith, Cory, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD
Cc:	Chris Jones; Mathews, Wesley; Sebastian Pima Oil
Subject:	48-Hour Notification - NRM2026529539/NAB1822127797 (Parkway West SWD 1)
Date:	Wednesday, May 19, 2021 7:16:18 AM

Good morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the Parkway West SWD 1 for incident IDs NRM2026529539 and NAB1822127797. One of our techs is scheduled to be on site for this sampling event at approximately 12:00 p.m. on Friday, May 21st.

## Thank you,

Tom Bynum - Project Manager 580-748-1613



Pima Environmental Services, LLC



## Appendix D

Photographic Documentation










Jan 18, 2021 at 4:30:44 PM 32.635977° N, 104.069822° W Parkway west swd #1



Jan 13, 2021 at 2:24:42 PM 32.635948° N, 104.069865° W Parkway west swd #1



Lan 20, 2021 at 2:05:42 PM 2:03560? N. 104.069683' W Parkway west swd #1













# Appendix E

Laboratory Reports



September 30, 2020

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS, NM 88240

**RE: PARKWAY WEST SWD** 

Enclosed are the results of analyses for samples received by the laboratory on 09/25/20 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



DEVON - 32.635774-104.069381

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:			
Received:	09/25/2020		Sampling Date:	09	9/15/2020
Reported:	09/30/2020		Sampling Type:	S	oil
Project Name:	PARKWAY WEST SW	VD	Sampling Condition:	C	ool & Intact
Project Number:	49		Sample Received By:	Та	amara Oldaker

### Sample ID: S - 1 - 0" - 6" (H002542-01)

Project Location:

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 9	% 42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	CHRIS JO 1601 N T	VIROMENTAL DNES URNER STE. 500 M, 88240		
Received:	09/25/2020	Sampling [	Date:	09/15/2020
Reported:	09/30/2020	Sampling 7	Гуре:	Soil
Project Name:	PARKWAY WEST SWD	Sampling (	Condition:	Cool & Intact
Project Number:	49	Sample Re	eceived By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	31		

### Sample ID: S - 2 - 0" - 6" (H002542-02)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	120 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	121 9	42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 3 - 0" - 6" (H002542-03)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	117 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	42.2-15	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

# Sample ID: S - 3 - 1' (H002542-04)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	124 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	)	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 3 - 2' (H002542-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	127 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 3 - 3' (H002542-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	127 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127 9	% 42.2-15	6						

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		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWE	0	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-2	104.069381		

### Sample ID: S - 4 - 0" - 6" (H002542-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 9	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	)	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 4 - 1' (H002542-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	130 \$	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 5 - 0" - 6" (H002542-09)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE HOBBS NM, 88240 Fax To:	-	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 6 - 0" - 6" (H002542-10)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	09/28/2020	ND	400	100	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	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	13.5	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	132 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135 9	42.2-15	6						

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	CHRIS JO 1601 N T	VIROMENTAL DNES URNER STE. 500 M, 88240		
Received:	09/25/2020	Sampling [	Date:	09/15/2020
Reported:	09/30/2020	Sampling 7	Гуре:	Soil
Project Name:	PARKWAY WEST SWD	Sampling (	Condition:	Cool & Intact
Project Number:	49	Sample Re	eceived By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	31		

### Sample ID: S - 7 - 0" - 6" (H002542-11)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	121	% 42.2-15	6						

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	CHRIS JC 1601 N T	VIROMENTAL DNES 'URNER STE. 500 IM, 88240	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	81	

### Sample ID: S - 8 - 0" - 6" (H002542-12)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	17.6	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	121 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE HOBBS NM, 88240 Fax To:	-	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 9 - 0" - 6" (H002542-13)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128 9	42.2-15	6						

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	PIMA ENVIRC CHRIS JONES 1601 N TURN HOBBS NM, 8 Fax To:	ER STE. 500	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 10 - 0" - 6" (H002542-14)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	12.7	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



	CHRIS JO 1601 N T	VIROMENTAL DNES URNER STE. 500 M, 88240		
Received:	09/25/2020	Sampling [	Date:	09/15/2020
Reported:	09/30/2020	Sampling 7	Гуре:	Soil
Project Name:	PARKWAY WEST SWD	Sampling (	Condition:	Cool & Intact
Project Number:	49	Sample Re	eceived By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	31		

### Sample ID: S - 11 - 0" - 6" (H002542-15)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	13.5	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	129 9	% 42.2-15	6						

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	CHRIS JO 1601 N T	VIROMENTAL DNES URNER STE. 500 M, 88240		
Received:	09/25/2020	Sampling [	Date:	09/15/2020
Reported:	09/30/2020	Sampling 7	Гуре:	Soil
Project Name:	PARKWAY WEST SWD	Sampling (	Condition:	Cool & Intact
Project Number:	49	Sample Re	eceived By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	31		

### Sample ID: S - 12 - 0" - 6" (H002542-16)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	107 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	% 42.2-15	6						

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	CHRIS JO 1601 N T	VIROMENTAL DNES URNER STE. 500 M, 88240		
Received:	09/25/2020	Sampling [	Date:	09/15/2020
Reported:	09/30/2020	Sampling 7	Гуре:	Soil
Project Name:	PARKWAY WEST SWD	Sampling (	Condition:	Cool & Intact
Project Number:	49	Sample Re	eceived By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	31		

### Sample ID: S - 13 - 0" - 6" (H002542-17)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 9	42.2-15	6						

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		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240		
		Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWE	)	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

### Sample ID: S - 13 - 1' (H002542-18)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	0.110	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	0.173	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	0.558	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	0.842	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	13.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	23.2	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	132	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 14 - 0" - 6" (H002542-19)

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	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	0.075	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	0.245	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	0.319	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	66.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	34.2	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130 9	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

### Sample ID: S - 15 - 0" - 6" (H002542-20)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	23.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131	% 42.2-15	6						

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	CH 16 HC	MA ENVIROMENTAL IRIS JONES 01 N TURNER STE. 500 DBBS NM, 88240 x To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD		Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

### Sample ID: S - 15 - 1' (H002542-21)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	42.2-15	6						

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DEVON - 32.635774-104.069381

	PIMA ENVIRC CHRIS JONES 1601 N TURN HOBBS NM, 8 Fax To:	ER STE. 500	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker

### Sample ID: S - 15 - 2' (H002542-22)

Project Location:

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127 9	% 42.2-15	6						

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		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SW	/D	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774	-104.069381		

### Sample ID: S - 16 - 0" - 6" (H002542-23)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	20.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	10.9	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122 9	% 42.2-15	6						

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		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	)	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-1	104.069381		

### Sample ID: S - 17 - 0" - 6" (H002542-24)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	09/28/2020	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	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	121 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	133 9	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: S - 18 - 0" - 6" (H002542-25)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	121 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131 9	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



DEVON - 32.635774-104.069381

	PIMA ENVIRON	1ENTAL	
	CHRIS JONES		
	1601 N TURNE	R STE. 500	
	HOBBS NM, 88	240	
	Fax To:		
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker

#### Sample ID: S - 18 - 1' (H002542-26)

Project Location:

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	112 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122	% 42.2-15	6						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



	CHRIS I 1601 N	IVIROMENTAL ONES TURNER STE. 500 NM, 88240		
Received:	09/25/2020	Sampli	ing Date:	09/15/2020
Reported:	09/30/2020	Sampli	ing Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampli	ing Condition:	Cool & Intact
Project Number:	49	Sample	e Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.0693	381		

# Sample ID: S - 18 - 2' (H002542-27)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



49

DEVON - 32.635774-104.069381

Tamara Oldaker

Sample Received By:

#### Analytical Results For:

	PIMA ENV CHRIS JO	IROMENTAL NES	
		IRNER STE. 500	
	HOBBS N	1, 88240	
	Fax To:		
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact

#### Sample ID: S - 18 - 3' (H002542-28)

Project Number:

Project Location:

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 9	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: S - 19 - 0" - 6" (H002542-29)

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	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	114 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: S - 20 - 0" - 6" (H002542-30)

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	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	114 9	42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE HOBBS NM, 88240 Fax To:	-	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: S - 21 - 0" - 6" (H002542-31)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	rrogate: 4-Bromofluorobenzene (PID 118 % 73.3-12		9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/28/2020	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	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	104 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 %	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWE	0	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-2	104.069381		

#### Sample ID: BG - 1 (H002542-32)

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	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	ogate: 4-Bromofluorobenzene (PID 117 % 73.3-12		9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/28/2020	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	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127	42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: BG - 2 (H002542-33)

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	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	0.063	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	0.073	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	0.178	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	0.314	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	PID 122 % 73.3-12		9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	09/25/2020		Sampling Date:	09/15/2020
Reported:	09/30/2020		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWE	0	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-2	104.069381		

# Sample ID: BG - 3 (H002542-34)

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	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID 119 % 73.3-12		9							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	120	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130	% 42.2-15	6						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	)	
Received:	09/25/2020	Sampling Date:	09/15/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: S - 5 - 1' (H002542-35)

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	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID 117 % 73.3-12		9							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/28/2020	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	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	113 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	123 9	42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

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

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 38 of 41

101	East	Mar	land,	Hobbs,	NM	88240

	5) 393-2326 FAX (575) 393		BILL TO			ANALY	YSIS REQUEST	
Project Manager:	hors Tours		P.O. #: 208905	19				
Address: 1601 N			Company: Devon					
City: Hobbs	State: NA	1 Zip: \$8246	Attn: Tom Byn	m				
	31-6977 Fax #:		Address:					
Project #: 49	Project Ow	mer: Deina	City:	- 3				
Project #: 49 Project Owner: Devon Project Name: Parkway West SUD Project Location: 32.635774, -104.069381			State: Zip:					
			Phone #:					
Sampler Name: R	bert Greer	1.0012.00	Fax #:		H			
FOR LAB USE ONLY	pert alper	MATRIX		PLING		5		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER :	TIME	RPH L	CNIOL		
15	1 - 0"-6"	5 X	9 15/20	9:00	XXX			
2 5-	2 - 0"-6"	1	1	9:05	111			
3 5	3-0"-6"			9:10				
4 5	3-1'			9:15				
5 5	-3-21			9:20				
6 5-	3-3'		1	9:25				
75	4-01-6"		40	9:30				
8 5-	4-1'			9:35				
9 5-	5-0"-6"			9:40				
PLEASE NOTE: Liability and Damag	- 6 - 0 <sup>11</sup> -6 <sup>47</sup> es. Cardinal's liability and client's exclusive remedy	y for any claim arising whether based in contra	act or tort, shall be limited to the amount po	id by the client for	the			
enalyses. All claims including those for	or negligence and any other cause whatsoever shi Table for incidental or consequental damages, inc	all be deemed waived unless made in writing a luding without limitation, business interruptions	and received by Cardinal within 30 days af s, loss of use, or loss of profits incurred by	er completion of th client, its subsidiar	he applicable ries,			
filiates or successors arising out of a Relinquished By:	r related to the performance of services hereunder Date: Time: 855	r by Cardinal, regardless of whether such clair Received By: 20 20 20 20 20 20 20 20 20 20 20 20 20	m is based upper jarry of the above stated in	Verbal Re All Results	se. sult: □ Yes s are emailed. Ple	□ No Add'I Pl ase provide Emai		
Relinquished By:	Date: Time:	Received By:	( )	REMARKS	S:		/	
Delivered By: (Circle O Sampler - UPS - Bus -		Cool Intact	(Initials)	Turnaroun Thermomete Correction F	Ru	sh 🗌 C	Bacteria (only) Sample cool Intact Obser Yes Yes Nc No Corre	rved Temp. °C

Page 85 of 262

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name:	Pima Environentel		BILL TO		ANALYSIS REQUEST				
riojeet manager.	Chris Jones		P.O. #: 208 96510	7					
Address: /60/	N. Turner		Company: Devon						
	State: NA	1 Zip: 88240	Attn: Tom Bynu	ind R					
	631 - 6977 Fax #:		Address:	um B					
Project #: Ho	9 Project Own	er: Devon	City:						
Project Name: Pa	church Word Su	N		17					
Project Location:	12.635 774, -104.0	69 301		R					
Sampler Name:	Die 1 ( 104.0	180 1 981	Phone #:	Rul					
FOR LAB USE ONLY	Robert Cooper	MATRIX	Fax #: PRESERV. SAMPL	ING PAT I					
Lab I.D. 40025~42	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		ELLEX ETTEX					
	-7-0"-64	G X	9/15/20	9:50 X X X					
12 5	- 8 - 0"-6"	1	1	9:55 1 1 1					
	-9 -0"-G"			15:00					
	-10-04-64		*	10:05					
	-11-04-64			12:10					
	-12 - 04-6"			16:15					
	-13-0464			10:00					
	-13-1'			10:25					
1.				(0:30					
LEASE NOTE: Liability and Damai	-15- D <sup>11</sup> -6 <sup>11</sup> ges. Cardinal's liability and client's exclusive remedy for	The second secon	4	10:35 - 2 -					
atyses. All claims including those	ges. Caronan s racially and client's exclusive remedy for for negligence and any other cause whatsoever shall be e liable for incidental or consequental damages, includin	deemed waived unless made in writing as	t or tort, shall be limited to the amount paid by t id received by Cardinal within 30 days after con	the client for the npletion of the applicable					
elinquished By:	or related to the performance of services hereunder by Date: Time: F.O. Date:	Received By:	aldaber	is subsidiaries, s or otherwise. erbal Result:					
	Time:		-		1				
Delivered By: (Circle C Sampler - UPS - Bus -		-2.7 Sample Condit Cool Intact	s (Initials)	rnaround Time: Standar Rush ermometer ID #113 rrection Factor None	d Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes				

Page 39 of 41

-	CAR	DI	NA	L
	Labo	rat	orie	s

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Bacteria (only) Sample Condition

Observed Temp. °C

Cool Intact

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

Observed Temp.

Corrected Temp. °C

°C

Sample Condition

Yes Yes No No

Cool Intact

Company Name	: Pima En	vironme	tel	1						B	ILL TO				_	A	NAL	YSIS	REQ	UEST	_	
. rejeet munuge	Chris Jo	2345						P	2.0.	#: 2	8 905	-19	T			Î					1	
Address: /60	ol N. Jurne	"h						C	om	pany:	Dem	~	1					1				
City: /tobb	S	State: NM	( Zij	p:	88	24	PO	A	Company: Devon Attn: Tom Bynum													
Phone #: 57	5-631-6977	Fax #:				~ ~			Address:													
Project #: 4	19	Project Own	er:	0	PUT	4			ity:													
Project Name: Park way West SWD Project Location: 32635774, -104.069381			1	tate		Zip:																
Project Location	1: 326357	74104	.0	60	251	1			hon		zip.			_								
Sampler Name:	Bobert Cen	200	. 0	¥	120	-		-	ax #													
FOR LAB USE ONLY			Т	Т		MAT	RIX	1	-	RESERV	SAM	PLING									1	
Lab I.D. 4002542 22 23 24 25 24 25 24 25 24 25 24 25 24 25 24 27 28 29 30	Sample I	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	-	DGF	HER :	ACID/BASE:				TPH ESH	Brex	Chloride							
H02542	1		(C)	0 #	GRO	SOIL	OIL	10	ACII	OTH	DATE	TIME										
21	5-15-1' 5-15-21 5-16-0'		6			×		1		+	9/15/2	0 10:40	×	d	X			-	-	-	+	
22	5-15-21		11			1				i	1	10:45	I	1	1							
20	5-16-0	-6"	11			1		1		1		10:50										
24	5-17-04-	6 * 1	11			1	-	-				10:55										
20	5-18 - 04-1	64	11			1	-			1		11:00		1								
22	5-18-2'		$\mathbb{H}$			1	-	+				11:05		11	11							
2.8	5-18 - 2'		H	$\square$	-	+	-	+		1		11:10		11	11							
29	5-19 - 04.	111	H			+	+	+		1	1	11:20	1	+	1			-				
30	5-20-04-1		H		-		+	-			1	11:25			11	-	-	-				
EASE NOTE: Liability and alvses, All claims, inclusion	Damages, Cardinal's liability and clie	off's exclusive remarks for an	ny claim	arising	whether I	vased in	contract	t or tor	t, shall	be limited to	the amount pair	11:30 by the client for t	he	-	2	1						
	those for negligence and any other of dinal be liable for incidental or consec- out of or related to the performance																					
elinquished By:		Date: 9/25/20 Time: 8:50	arginal,	regard	ed By:	ther su	ch claim	is bas			above stated rea	Verbal Res All Results	ult: [	Yes Ailed.	D No Please p	o Ad rovide	d'I Pho Email a	ne #: iddress	5:			
elinquished By:		Date:	Rec	eive	ed By:	in	a	a	, and	ing	Je	REMARKS										
		Time:																				
elivered By: (Circ	cle One) Obs	served Temp °C	2	1	Com				_													

10 
 ☐ Yes ☐ Yes
 No
 Corrected Temp. °C
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID #113 **Correction Factor None**  Standard

Rush

Page 40 of 41

Page 87 of 262

OCD: 1/4/2023 7:04:36 AM

Received by

Sampler - UPS - Bus - Other:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	I Ma CILINOV West		BILL TO	ANALYSIS REQUEST
Project Manage	er: Chris Jones		P.O. #: 20890519	
Address: 16	o) N. Turner		Company: Devon	1
City: Helo	bbs State: NA	Azip: 88240	Attn: Tom Bynun	
Phone #: 57	15-631-6977 Fax #:		Address:	
Project #:	49 Project Own	er: Devon	City:	
Project Name:	Parkway West :	SWM	State: Zip:	
Project Locatio	In: 32,635 774, -104.	069381	Phone #:	
Sampler Name:	Robert Carper	1301	Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D. $5-21 - 0^{1}-6^{1}$ 86-1 86-2 86-3 $5-5 - 1^{1}$	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SOIL	OTHER: ACID/BASE: ICE / COOL OTHER: DTHER:	TPH E BTEX Chlon
31	5-21-0-6"	6 ×	X 9/15/20 11:35	1111
36	BG-1		11:40	
21	66-2		11:45	
25	8-5-1	GX	V L 11:50	
55	3-5 .	GI X	1 -	
-				
	1			
service. In no event shall Ca	d Damages. Cardinal's liability and client's exclusive remedy for a 1g those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequential damages, includin go ut of or related to the performance of services hereunder by	deemed waived unless made in writing and g without limitation, business interruptions, I	tangained by Costing within 20 days offer example for stat	
Relinquished By	Time: 5-5	Received By:	OAA // Verbal Res	sult:  Yes No Add'l Phone #: are emailed. Please provide Email address:
Relinquished By	Date: Time:	Received By:	REMARKS	
Delivered By: (Ci Sampler - UPS - E PORM-0061	Bus - Other: Corrected Temp. °C	-2.7 Sample Conditi Cool Intact Tes Tes No No	(Initials)	Rush     □     Cool Intact     Observed Temp. °C       r ID     #113     □     Yes

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 1/4/2023 7:04:36 AM



December 01, 2020

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500

HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 11/24/20 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keine

Celey D. Keene Lab Director/Quality Manager



PIMA ENVIROMENTALProject:PARKWAY WEST SWD #1Reported:1601 N TURNER STE. 500Project Number:4901-Dec-20 16HOBBS NM, 88240Project Manager:CHRIS JONESFax To:Fax To:CHRIS JONES	5:46
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-1'	H003117-01	Soil	23-Nov-20 08:50	24-Nov-20 14:10
B - 1 - 2'	H003117-02	Soil	23-Nov-20 08:55	24-Nov-20 14:10
B - 1 - BOTTOM	H003117-03	Soil	23-Nov-20 09:00	24-Nov-20 14:10
B-2-1'	H003117-04	Soil	23-Nov-20 09:05	24-Nov-20 14:10
B - 2 - 2'	H003117-05	Soil	23-Nov-20 09:10	24-Nov-20 14:10
B - 2 - BOTTOM	H003117-06	Soil	23-Nov-20 09:15	24-Nov-20 14:10
B-3-1'	H003117-07	Soil	23-Nov-20 09:20	24-Nov-20 14:10
B - 3 - 2'	H003117-08	Soil	23-Nov-20 09:25	24-Nov-20 14:10
B - 3 - BOTTOM	H003117-09	Soil	23-Nov-20 09:30	24-Nov-20 14:10
B-4-1'	H003117-10	Soil	23-Nov-20 09:35	24-Nov-20 14:10
B - 4 - 2'	H003117-11	Soil	23-Nov-20 08:00	24-Nov-20 14:10
B - 4 - BOTTOM	H003117-12	Soil	23-Nov-20 08:05	24-Nov-20 14:10
B-5-1'	H003117-13	Soil	23-Nov-20 08:10	24-Nov-20 14:10
B - 5 - 2'	H003117-14	Soil	23-Nov-20 08:15	24-Nov-20 14:10
B - 5 - BOTTOM	H003117-15	Soil	23-Nov-20 08:20	24-Nov-20 14:10
B-6-1'	H003117-16	Soil	23-Nov-20 08:25	24-Nov-20 14:10
B - 6 - 2'	H003117-17	Soil	23-Nov-20 08:30	24-Nov-20 14:10
B - 6 - BOTTOM	H003117-18	Soil	23-Nov-20 08:35	24-Nov-20 14:10
B-7-1'	H003117-19	Soil	23-Nov-20 08:40	24-Nov-20 14:10
B - 7 - 2'	H003117-20	Soil	23-Nov-20 08:45	24-Nov-20 14:10
B - 7 - BOTTOM	H003117-21	Soil	23-Nov-20 09:40	24-Nov-20 14:10
B-8-1'	H003117-22	Soil	23-Nov-20 09:45	24-Nov-20 14:10
B - 8 - 2'	H003117-23	Soil	23-Nov-20 09:50	24-Nov-20 14:10
B-8- BOTTOM	H003117-24	Soil	23-Nov-20 10:00	24-Nov-20 14:10
B-9-1'	H003117-25	Soil	23-Nov-20 10:05	24-Nov-20 14:10
B-9-2'	H003117-26	Soil	23-Nov-20 10:10	24-Nov-20 14:10
B - 9 - BOTTOM	H003117-27	Soil	23-Nov-20 10:15	24-Nov-20 14:10

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240		Project: Project Number: Project Manager: Fax To:		Reported: 01-Dec-20 16:46
B - 10 - 1'	H003117-28	Soil	23-Nov-20 10:20	24-Nov-20 14:10
B - 10 - 2'	H003117-29	Soil	23-Nov-20 10:25	24-Nov-20 14:10
B - 10 - BOTTOM	H003117-30	Soil	23-Nov-20 10:30	24-Nov-20 14:10
B-11-1'	H003117-31	Soil	23-Nov-20 10:35	24-Nov-20 14:10
B - 11 - 2'	H003117-32	Soil	23-Nov-20 10:40	24-Nov-20 14:10
B - 11 - BOTTOM	H003117-33	Soil	23-Nov-20 10:45	24-Nov-20 14:10
B - 12 - 1'	H003117-34	Soil	23-Nov-20 10:50	24-Nov-20 14:10
B - 12 - 2'	H003117-35	Soil	23-Nov-20 10:55	24-Nov-20 14:10
B - 12 - BOTTOM	H003117-36	Soil	23-Nov-20 11:00	24-Nov-20 14:10
B - 13 - 1'	H003117-37	Soil	23-Nov-20 11:05	24-Nov-20 14:10
B - 13 - 2'	H003117-38	Soil	23-Nov-20 11:10	24-Nov-20 14:10
B - 13 - BOTTOM	H003117-39	Soil	23-Nov-20 11:15	24-Nov-20 14:10

12/01/20 - Client revised the sample IDs for all the samples from S to B. This is the revised report and will replace the one sent earlier 12/01/20.

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	per: 4 ger: (		- SWD #1		C	Reported: 11-Dec-20 16:	:46
B - 1 - 1' H003117-01 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	960		16.0	mg/kg	g 4	0112512	GM	30-Nov-20	4500-Cl-B	

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#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proj Project Num Project Mana Fax	ber: 4 ger: C		- SWD #1		(	Reported: 01-Dec-20 16:	46
B - 1 - 2' H003117-02 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 4		T SWD #1		(	Reported: )1-Dec-20 16:	:46
			B - 1 - H0031	BOT 117-03						
Analyte	Result	MDL	Reporting Limit	Units	5 Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	g 4	0112512	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 4		5T SWD #1		0	Reported: 11-Dec-20 16:	46
			_	- 2 - 1 117-04 (	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	1860		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: C		- SWD #1		(	Reported: 01-Dec-20 16	:46
			B - H00311	2 - 2 7-05	_					
Analyte	Result	MDL	Reporting Limit	Units	5 Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	g 4	0112512	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: (		Г SWD #1		(	Reported: 01-Dec-20 16	:46
			B - 2 - H00311							
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Projec Project Numbe Project Manage Fax T	er: 4 er: C		SWD #1		(	Reported: )1-Dec-20 16	:46
			B - H00311	3 - 1 7-07 (						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal ]	abo	ratories					
Inorganic Compounds										
Chloride	1330		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax <sup>-</sup>	er: 4 er: C		- SWD #1		(	Reported: 01-Dec-20 16	:46
			B - H00311	3 - 2 7-08	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	1010		16.0	mg/kg	ş 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		5T SWD #1		C	Reported: 11-Dec-20 16:	46
				• BOTT 117-09 (\$						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	624		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proj Project Numl Project Mana Fax	per: 4 ger: C		T SWD #1		C	Reported: 01-Dec-20 16:	:46
			B H0031	- 4 - 1 17-10	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Labo	oratories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 4		T SWD #1		0	Reported: 1-Dec-20 16:	46
			-	- 4 - 2	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	ş 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		T SWD #1		C	Reported: )1-Dec-20 16:	46
				• BOTT 117-12 (*						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labor	atories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Project Numbe Project Manage Fax T	er: 4 er: C		SWD #1		(	Reported: 01-Dec-20 16	:46
			B - H00311							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal I	abo	ratories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: (		5WD #1		(	Reported: 01-Dec-20 16	:46
			B - H0031	5 - 2 7-14						
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240							Reported: 11-Dec-20 16:					
B - 5 - BOTTOM H003117-15 (Soil)												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
Cardinal Laboratories												
Inorganic Compounds												
Chloride	96.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: PARKWAY WEST SWD ; Project Number: 49 Project Manager: CHRIS JONES Fax To:						Reported: 01-Dec-20 16:46				
B - 6 - 1' H003117-16 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	3920		16.0	mg/kg	; 4	0113011	GM	30-Nov-20	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			ARKWAY WEST 9 HRIS JONES	SWD #1		(	Reported: 01-Dec-20 16:46				
B - 6 - 2' H003117-17 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	752		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		ST SWD #1		C	Reported: 11-Dec-20 16:	46
				• BOTT 117-18 (\$						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax T	er: 4 er: C		5WD #1		(	Reported: 01-Dec-20 16	:46
			B - H00311	7 - 1 7-19	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	720		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax T	er: 4 er: C		SWD #1		(	Reported: )1-Dec-20 16	:46
			B - H00311	7 - 2 7-20 (						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laboi	ratories					
Inorganic Compounds										
Chloride	416		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax <sup>-</sup>	er: 4 er: C		5WD #1		(	Reported: 01-Dec-20 16:	:46
			B - 7 - H00311							
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Projec Project Numbe Project Manage Fax T	er: 4 er: C		SWD #1		(	Reported: 01-Dec-20 16	:46
			B - H00311	-						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal ]	abo	ratories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Mana <u>c</u> Fax	er: 4 Jer: C		Г SWD #1		C	Reported: 11-Dec-20 16:	46
			B - H0031	· 8 - 2	_					
Analyte	Result	MDL	Reporting Limit	Units	5 Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax 1	er: 4 er: C		「SWD #1		C	Reported: )1-Dec-20 16:	46
			B - 8 - 1 H00311							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	ş 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Mana <u>c</u> Fax	er: 4 er: C		T SWD #1	-	C	Reported: 01-Dec-20 16	:46
			B - H0031	9 - 1 17-25	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	g 4	0113011	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numbo Project Manago Fax T	er: 4 er: (		- SWD #1		(	Reported: 01-Dec-20 16:	:46
			B - H00311	9 - 2 7-26	_					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Nun Project Mana	nber: 49		ST SWD #1	-	C	Reported: 11-Dec-20 16:	46
				- BOTT 117-27 (§						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	atories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax <sup>-</sup>	er: 4 er: (		T SWD #1		C	Reported: 01-Dec-20 16	:46
			B - H00311	10 - 7-28	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	656		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax T	er: 4 er: (		T SWD #1		C	Reported: 01-Dec-20 16:	:46
			B - H00311		-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	368		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		5T SWD #1		C	Reported: 11-Dec-20 16:	46
				- BOT 117-30 (\$						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labor	atories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: (		T SWD #1		C	Reported: 01-Dec-20 16	:46
			B - H0031	11 - 7-31	-					
Analyte	Result	MDL	Reporting Limit	Unit	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	1380		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: (		- SWD #1		(	Reported: )1-Dec-20 16:	:46
			B - H00311	11 - 7-32	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		T SWD #1		C	Reported: 01-Dec-20 16:	46
			B - 11 - H003	- BOT 117-33 (						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numl Project Manag Fax	per: 4 ger: (		Г SWD #1		(	Reported: 01-Dec-20 16	:46
			B - H0031	12 - 17-34	-					
Analyte	Result	MDL	Reporting Limit	Unit	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	224		16.0	mg/k	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proj Project Numl Project Manag Fax	per: 4 ger: C		T SWD #1		C	Reported: 01-Dec-20 16	:46
			B - H0031	12 - 17-35	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Project Num Project Mana	ber: 49		ST SWD #1		C	Reported: 11-Dec-20 16:	46
				- BOT 117-36 (\$						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labor	atories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Projec Project Numbe Project Manage Fax T	er: 4 er: C		5WD #1		(	Reported: 01-Dec-20 16	:46
			B - 1 H00311	-	-					
Analyte	Result	MDL	Reporting Limit	Units	5 Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal 1	Labo	ratories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numb Project Manag Fax	er: 4 er: (		T SWD #1		C	Reported: 01-Dec-20 16	:46
			B - H0031	13 - 17-38	-					
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240			Proje Project Numl Project Manag Fax	per: 4 ger: (		- SWD #1		(	Reported: 01-Dec-20 16	:46
			B - 13 - H0031							
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	oratories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	g 4	0113012	GM	30-Nov-20	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	During the Neural Street		Reported: 01-Dec-20 16:46
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## **Inorganic Compounds - Quality Control**

		Cardir	nal Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0112512 - 1:4 DI Water										
Blank (0112512-BLK1)				Prepared &	Analyzed:	25-Nov-20				
Chloride	ND	16.0	mg/kg							
LCS (0112512-BS1)				Prepared &	Analyzed:	25-Nov-20				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (0112512-BSD1)				Prepared &	Analyzed:	25-Nov-20				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 0113011 - 1:4 DI Water										
Blank (0113011-BLK1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	ND	16.0	mg/kg							
LCS (0113011-BS1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (0113011-BSD1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 0113012 - 1:4 DI Water										
Blank (0113012-BLK1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	ND	16.0	mg/kg	-						
LCS (0113012-BS1)				Prepared &	Analyzed:	30-Nov-20				

#### Cardinal Laboratories

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: Project Number: Project Manager: Fax To:		Reported: 01-Dec-20 16:46
----------------------------------------------------------------	------------------------------------------------------------	--	------------------------------

## **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 0113012 - 1:4 DI Water											
LCS Dup (0113012-BSD1)	Prepared & Analyzed: 30-Nov-20										
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 $6^{\circ}\text{C}$

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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/4/2023 7:04:36 AM

# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima	Enviroment	41				BILL TO	)		ANALY		
Chris	JONES				P.O. #: 2		ALL PLACE AND ADDRESS OF		ANALY	SIS REQUEST	
Address: 1601 N.	Turner	STE	500		Company:	Der					
iny: HOBES	State: NA	Zip:	8+24	~	Attain a	7200	n				
Phone #: 964-7740	Fax #		00000	-	Attn: TO	moy	NOM				
	Project Owne		)		Address:						
roject Name: Da	Project Owne	r: 0	ewan	-	City:						
roject Name: Parit way	West C	60	#1		State:	Zip:					
roject Location: Eddy,	Nm				Phone #:						
ampler Name: Robert	Chiper				Fax #:						
			MA	TRIX	PRESER	V. SAN	PLING				
3 5-1- 6 4 5-2- 5 5-2-	e I.D. Plileo Fr 2 Fr 30 trom	# (G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL	SLUDGE	OTHER : ACID/BASE: ICE / COOL	DATE 11/23 11/23 11/23 11/23 11/23 11/23	TIME 0850 0855 0500 0905 09/0 09/5	Chloride			
		$\square$				11/23	0520				
8 5-3-2		1				4/23	0925				+++
10 5-1 8	OTTOM					11/23	0530				
SE NOTE: Liability and Damages. Cardinal's liability and	d client's exclusive remarks for					11/23	0935				+
e. In no event shall Cardinal be liable for incidental or o	Date: 1//24/15 Time: 2,10	ithout limita	tion, business inten	ruptions, loss ch claim is b	toric, shall be temeded ecceived by Candinal v s of use, or loss of pr based upon any of the	Whin 30 days after offs incurred by cl e above stated rea	completion of the ient, its subsidiarie sons or otherwise Verbal Res	applicable es, e. sult: □ Yes □	No Add'l Phone se provide Email add	ŧ#: dress:	
	Date: Time:	Receiv	ed By:				REMARKS:	de IDs neu	nsid as per (	Chris. 12/1	io ch
the second se	Observed Temp. °C L Corrected Temp. °C		Sample Cool Int	Yes	CHECK	ans)	Turnaround Thermometer	Time: Stan Rusi ID #97 113 ICtor + 0,4 °C		eria (only) Sample Co Intact Observed S Yes No Corrected	Tomo IC

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Received by OCD: 1/4/2023 7:04:36 AM

# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Prima Enviro metro 1 Project Manager Dia Enviro metro 1		B	ILL TO	
Chis Johns			890519	ANALYSIS REQUEST
Address: 1601 N. Turner STE	500	Component	0 100 19	
City: Hobbs State: Nm Z	in CC auto	Company:	Devon	
hone #: 964 - 7740 Fax #:	1p. 06 240	Attn: 10,	m Bynum	
	D	Address:		
	Decon	City:		
roject Name: PARILWAY WEST SU	UP #1	State:	Zip:	
roject Location: Eddy, Nm		Phone #:		
ampler Name: Robert CArper	1	Fax #:		19
	MATRIX	PRESERV.	SAMPLING	1 2
	E E			
Lab I.D. Sample I D	TER			
Lab I.D. Sample I.D. 003/11 B 11 5 - 4 - 2'	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: ICE / COOL OTHER :		
003111 3	# CONTA # CONTA GROUND WASTEW WASTEW SOIL OIL SLUDGE	OTHER : ACID/BAS ICE / COC		
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12 5-4- BOTTOM			11/23 0805	
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			11/23 0815	
15 5-5- Bottom			11/23 08120	
19 5-6-2'			11/23 0825	
			11/23 0830	
19 5-6- BOTTOM			11/23 0835	
70 5 7 - 01			11/23 0640	
SENOTE: Liability and Damages. Cardinal's liability and client's exclusive remarks for any solution			11/23 0845	
SE NOTE: Liability and Daimages. Carcinal's liability and client's exclusive remedy for any claim ses. All claims including those for negligence and any other cause whatsoever shall be deemer e. In no event shall Cardinal be liable for incidental or consequental damages, including withou	n ansing whether based in contract or d waived unless made in writing and n	tort, shall be limited to t eceived by Cardinal with	the amount paid by the client for the in 30 days after completion of the	he soulizable
inquished Rv.	regardless of whether such claim is I	s of use, or loss of profit based upon any of the a	ts incurred by client, its subsidiarie bove stated reasons or otherwise	15,
Date: Date: Re	ceived By:		Verbal Res	ult: Ves No Add'l Phone #:
Time:	1000 100	INAN	All Results	are emailed. Please provide Email address:
inquished By Date: Re	ceived By:	ister .	REMARKS:	
Time:			REMARKS:	
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mpler - UPS - Bus - Other: Corrected Temp. °C	Yes Yes	mitial	Thermometer	Rush Cool Intact Observed Temp *C
PORM-000 R 3.0 Corrected Temp. °C	No No	It	Thermometer Correction Fa	Cool Intact Observed Temp. °C

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 48 of 49

(575) 393-2 Company Name:	326 FAX (575) 393	-																	
	Enviro ma	170	4/					1		BI	LL TO	)	ANALYSIS REQUEST					T	
Project Manager: Chris	Jones							P.O.	#: 0	20	890	519			1				
Address: 1601 N.	Turner	51	E	5	0	0					Dev		1						
City: Hobbe	State Nr	7 Z	ip: d	88.	24	10					By								
Phone #: 964-77	40 Fax #:							Addr											
Project #: 49	Project Own	er:	í.	Der	101	N		City:											
Project Name: PArk W	au LIERT	.5	w	3	#	51		State			2:								
Project Location: Eddy	Nm	-								-	Zip:								
Project Location: Eddy Sampler Name: Robert	CA, DEN							Phon		_									
FOR LAB USE ONLY	Qui por	Т	Т		M	ATRI		Fax #	F: RESER	v	SAM	PLING							61
		d d			-	T	ŤΤ	f	LOLI	1	SAN	PLING	9						
1	ple I.D.	C (C)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	ACID/BASE:	ICE / COOL	2			1/0/1						
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ASE NOTE: Liability and Damages. Cardinal's liability	a Thom	1			1				1	1	122	10.0	11		-		-		-
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	or consequental damages, including amance of services hereunder by Ci	without ardinal.	limitation regardle	on, busin	ess inte	errupfor	ns, loss (	of use, or	r loss of p	rofits in	au days after incurred by cli-	completion of the ent, its subsidiarie	applicable						
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PORM-000 R 3.1 00/04/20					No		No		Wb	4	C	hermometer orrection Fac	D #113				Yes		

Yes Yes † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Correction Factor None

Observed Temp. °C

Corrected Temp. °C

AM

7:04:36

1/4/2023

OCD:

0

Received



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: A	6/	BILL TO	ANALYSIS REQUEST				
Company Name: Pima Environment Project Manager: Chris Joner		P.O. #: 20890519					
Address: 1601 N. Turner	STE 500	Company: Devon					
Address: 1601 N. Turner City: Hobbt State:/Vm Phone #: 964 - 77 40 Fax #:	Zip: 88240	Attn: Tom Bywern					
Phone #: 964 - 77 % Fax #:		Address:					
Project #: 49 Project Owne	r de lan	City:					
Project Name: PArilway WET S	1) +t1						
Project Name: PArilway West St Project Location: Eddy, Nm							
Sampler Name: Robert CHAPER		Phone #:					
FOR LAB USE ONLY	MATRIX	Fax #: PRESERV. SAMPLING					
		ALUERT. SAMPLING					
Lab I.D. Sample I.D. 40031171 B $31 \ 5^{-}/1^{-}/^{-}$ $32 \ 5^{-}/1^{-} \ \beta^{-}$ $33 \ 5^{-}/1^{-} \ \beta^{-}$ $34 \ 5^{-}/2^{-}/^{-}$ $35 \ 5^{-}/2^{-}/^{-}$ $36 \ 5^{-}/2^{-}B_{0} \ 770m$ $37 \ 5^{-}/2^{-}B_{0} \ 770m$ $37 \ 5^{-}/2^{-}B_{0} \ 770m$ $37 \ 5^{-}/2^{-}B_{0} \ 770m$	# CONTAINERS # CONTAINERS # CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SOIL	OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER:					
39 5-13-BOTTOM		11/23 1110					
	1 4	11/23 1115	-				
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for am alyses. All claims including those for negligence and any other cause whatsoever shall be do the best of the state of t	claim arising whether based in contract or						
elinquished By: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date:	thout limitation, business interruptions, los dinal, regardless of whether such claim is 1 Received By:	so fuse, or loss of profits incurred by client, its subsidiarie based upon any of the above stated reasons or otherwise Verbal Res	e applicable es. sult: are emailed. Please provide Email address:				
Time: elivered By: (Circle One) Observed Temp. °C U ampler - UPS - Bus - Other: Corrected Temp. °C FORM-000 R 3. ( 00/04/20	Ves Yes	(hitials) Thermometer Correction Fa	Rush Cool Intact Observed Temp. °C				



January 06, 2021

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	500	
Received:	12/31/2020	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

## Sample ID: NORTH WALL COMP #1 (H003369-01)

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	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/05/2021	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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	10.7	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	)	
Received: Reported:	12/31/2020 01/06/2021	Sampling Date: Sampling Type:	12/31/2020 Soil
Project Name: Project Number: Project Location:	PARKWAY WEST SWD #1 49 DEVON - 32.635774-104.069381	Sampling Condition: Sample Received By:	** (See Notes) Jodi Henson

## Sample ID: NORTH WALL COMP #2 (H003369-02)

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	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/05/2021	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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sample Received by.	Journenson

## Sample ID: NORTH WALL COMP #3 (H003369-03)

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	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.6	% 42.2-15	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sample Received by.	Journenson

## Sample ID: NORTH WALL COMP #4 (H003369-04)

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	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.5	% 42.2-15	6						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sample Received by.	Journenson

## Sample ID: WEST WALL COMP #1 (H003369-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
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	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.0	% 42.2-15	6						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sample Received by.	Journenson

## Sample ID: WEST WALL COMP #2 (H003369-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sumple Received by:	Journenson

#### Sample ID: WEST WALL COMP #3 (H003369-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.0	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	500	
Received: Reported: Project Name: Project Number:	12/31/2020 01/06/2021 PARKWAY WEST SWD #1 49	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/31/2020 Soil ** (See Notes) Jodi Henson
Project Location:	DEVON - 32.635774-104.069381	Sumple Received by:	Journenson

#### Sample ID: WEST WALL COMP #4 (H003369-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	01/05/2021	ND	416	104	400	3.92	
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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.7	% 42.2-15	6						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 148 of 262

Received by OCD: 1/4/2023 7:04:36 AM

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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January 12, 2021

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/08/21 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/08/2021		Sampling Date:	01/08/2021
Reported:	01/12/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST S	WD #1	Sampling Condition:	** (See Notes)
Project Number:	49		Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.63577	4-104.069381		

#### Sample ID: WEST WALL #3 (H210056-01)

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	01/11/2021	ND	1.99	99.4	2.00	8.19	
Toluene*	<0.050	0.050	01/11/2021	ND	1.95	97.7	2.00	9.09	
Ethylbenzene*	<0.050	0.050	01/11/2021	ND	1.90	95.0	2.00	9.54	
Total Xylenes*	<0.150	0.150	01/11/2021	ND	5.58	93.0	6.00	9.35	
Total BTEX	<0.300	0.300	01/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/11/2021	ND	400	100	400	3.92	
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	01/11/2021	ND	232	116	200	2.72	
DRO >C10-C28*	<10.0	10.0	01/11/2021	ND	235	118	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/11/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.4	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENT CHRIS JONES 1601 N TURNER S HOBBS NM, 88240 Fax To:		
Received:	01/08/2021	Sampling Date:	01/08/2021
Reported:	01/12/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: WEST WALL #4 (H210056-02)

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	01/11/2021	ND	1.99	99.4	2.00	8.19	
Toluene*	<0.050	0.050	01/11/2021	ND	1.95	97.7	2.00	9.09	
Ethylbenzene*	<0.050	0.050	01/11/2021	ND	1.90	95.0	2.00	9.54	
Total Xylenes*	<0.150	0.150	01/11/2021	ND	5.58	93.0	6.00	9.35	
Total BTEX	<0.300	0.300	01/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/11/2021	ND	400	100	400	3.92	
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	01/11/2021	ND	232	116	200	2.72	
DRO >C10-C28*	<10.0	10.0	01/11/2021	ND	235	118	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/11/2021	ND					
Surrogate: 1-Chlorooctane	98.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.3	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 153 of 262

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476 ompany Name: Dimo Erdviromental					_	BILL TO				A	ALYS	SIS R	EQU	EST						
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	r: Chris Jones						-	_			1										
Address: 16	on N. Turner st	250	0				_	Company: Devois													
city: Hob	05 State: No	n Zip	: 8	582	40	)	At	Attn: Wes Muthews													
Phone #: 575	-631-6977 Fax #:						A	ddre	ss:				e i l								1
Project #: 4	9 Project Ow	ner:	De	vor	J		Ci	ity:	_				1.1								
Project Name:	PARKWAY SWD #1						St	ate:	-	Zip:											
	n: EDDY COUNTY						PI	hone	#:			1									
Sampler Name:		5					Fax #:						2								
FOR LAB USE ONLY		<u> </u>	Г		MA	TRIX		PR	ESERV.	SAM	PLING	1à		5							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	-Har	BTEX	2hloride							
1010004	WEST WALL #3				1				1	1/8/21	1:15	1	1				-	-	-		
	WEST WALL # 4	1	-		1			1	7	1		1	1	4		-	-		-		
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	ding those for negligence and any other cause whatsoever so Cardinal be liable for incidental or consequental damages, in ising out of or related to the performance of services hereund	cluding with ler by Cardin	nal, reg	ardless o	siness i ( whethe						easons or other	wise.			No /	Add'l Pho	nne #·	_			
Relinquished I	By: Date / /	2/ R	lece	ived I	3V:				NI	111	Verbal R All Result		I Ye	i. Pleas				s:			
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-			~ ~						CHEC	KED BY:	Turnarou	and Tim	e.	Stan	lard	МВ	acteria	(only) S	ample (	Conditio	n
Delivered By: (	Circle One) Observed Temp	0. °C 12	2.9	1	loo	Inta	nditio	-		itials)				Rush		Co	ol Inta	ct	Observ	ed Temp	). °C
Sampler - UPS	- Bus - Other: Corrected Temp	o. °C			PY	s I	Yes		V	0.	Thermome	eter ID n Factor	#113 None				Yes	No	Correct	ed Temp	p. °C
PORM-00	00 R 3.1 06/04/20	-	-	-					-	amail ch		a law k	annal	Doordin	allaber	am com					

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 1/4/2023 7:04:36 AM



January 18, 2021

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/13/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/13/2021		Sampling Date:	01/08/2021
Reported:	01/18/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD	) #1	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-1	.04.069381		

#### Sample ID: EAST WALL # 4 (H210085-01)

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	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	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	79.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.6	% 42.2-15	6						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	500	
Received:	01/13/2021	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: SOUTH WALL # 4 (H210085-02)

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	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	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.1	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	500	
Received:	01/13/2021	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: EAST WALL # 1 (H210085-03)

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2021	ND	400	100	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	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.7	% 42.2-15	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

DEVON - 32.635774-104.069381

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/13/2021		Sampling Date:	01/08/2021
Reported:	01/18/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST SV	ND #1	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Jodi Henson

#### Sample ID: SOUTH WALL # 1 (H210085-04)

Project Location:

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	400	100	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	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	87.7 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.0 9	% 42.2-15							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROME CHRIS JONES 1601 N TURNER HOBBS NM, 882 Fax To:	STE. 500	
Received:	01/13/2021	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: EAST WALL # 2 (H210085-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	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	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.6	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

DEVON - 32.635774-104.069381

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/13/2021		Sampling Date:	01/08/2021
Reported:	01/18/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST SV	ND #1	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Jodi Henson

#### Sample ID: SOUTH WALL # 2 (H210085-06)

Project Location:

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	96.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.7	42.2-15	6						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	01/13/2021	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: EAST WALL # 3 (H210085-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	93.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.7	% 42.2-15	6						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received:

Reported:

Project Name:

Project Number:



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

Sample Received By:

01/08/2021

Cool & Intact

Jodi Henson

Soil

#### Analytical Results For:

	PIMA ENVIROMENTAL	
	CHRIS JONES	
	1601 N TURNER STE. 500	
	HOBBS NM, 88240	
	Fax To:	
01/13/2021		Sampling Date:
01/18/2021		Sampling Type:
PARKWAY WEST SW	D #1	Sampling Condition:

Project Location:	DEVON - 32.635774-104.069381

49

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	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-14	4						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



01/08/2021 Soil

Cool & Intact Jodi Henson

#### Analytical Results For:

1/12/2021		Convelie o Dotos
	Fax To:	
	HOBBS NM, 88240	
	1601 N TURNER STE. 5	00
	CHRIS JONES	
	PIMA ENVIROMENTAL	

Received:	01/13/2021	Sampling Date:
Reported:	01/18/2021	Sampling Type:
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:
Project Number:	49	Sample Received By:
Project Location:	DEVON - 32.635774-104.069381	

#### Sample ID: SOUTH WALL # 6 (H210085-09)

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	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.4	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

DEVON - 32.635774-104.069381

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/13/2021		Sampling Date:	01/08/2021
Reported:	01/18/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST SV	ND #1	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Jodi Henson

#### Sample ID: SOUTH WALL # 5 (H210085-10)

Project Location:

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	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.9	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

		PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:		
Received:	01/13/2021		Sampling Date:	01/08/2021
Reported:	01/18/2021		Sampling Type:	Soil
Project Name:	PARKWAY WEST SW	/D #1	Sampling Condition:	Cool & Intact
Project Number:	49		Sample Received By:	Jodi Henson

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: SOUTH WALL #7 (H210085-11)

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	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.0	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 5 HOBBS NM, 88240 Fax To:	00	
Received:	01/13/2021	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

#### Sample ID: SOUTH WALL # 8 (H210085-12)

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	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.6	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 303-2326 EAY (575) 303-2476

Company Name	Pima Environmental		-		_	-	Т		BI	LL TO					-	ANA	LYS	IS R	EQUE	ST		_	_
Project Manage	r: Chris Jones						Ρ.	0. #	: 20	890	519				-		1						Γ
	I.N. Turner Ste 500						c	omp		Devo		1		-			1						
City: Hobk		Zip	: 8	8240	>		At	tn:		Matt		1											
Phone #: 57	5-631-6977 Fax#:							ddre		1 401		1	1										
Project #: 4ª		er:	1	Devo	Λ		Ci	ty:												1			
	Parteway Watswo Parks					0	1	ate:	-	Zip:		1								1			
Project Locatio		~7					1	none															
Sampler Name:			_				1	x #:															
FOR LAB USE ONLY					MATR	IX		-	ESERV.	SAM	IPLING	H			×.								
Lab I.D.	Sample I.D.	(G)RAB.OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	TPH EXI	BTBV	chlaride									
1	East wall #4	C			x				×	1=8-21	10:00	-	1	-									
2	Eastwall #4 South Wall #4 East way #1	1			1				1	1	10:10		1	1									
3	East way 41										9200					1			1.				
4	South Wall #1										9:10											1	
5	East Wall 42				1						9:20				-	1					1		
6	South Woll 42	111									9:30												
7	East Wall #3										9:40		1									-	
8	South Wall # 3	11			1						9:50		-11	-11	-							-	
4 South	Wall 46	111			1	-					10:20		-11							-		-	
	South Wall 45	1			ł				1	2	10:30	1	7	4	1		1						
analyses. All claims include	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be	deemed	waive	ed unless ma	de in wri	ting an	d rece	eived by	y Cardinal w	within 30 days aft	er completion of th	he applicabl	e										
affiliates or successors arisi	ardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services hereunder by C										easons or otherwis	ie.											
Relinquished B	и: Ду Date: /-/3-21 Тіте: 4:45	Rea	ceiv	red By:		k	les	N	10	n	Verbal Re All Results		Yes ailed.				Phone nail add						
Relinquished By	Time:	Re	ceiv	ved By:							REMARKS	S:											
Delivered By: (C Sampler - UPS -				Cool	Inters	act	s			ED BY:	Turnaroun Thermomete Correction F	erID #1	13	Stand Rush	ard	2	Cool	Intact	O	bserved	d Temp.	°C	

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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 1/4/2023 7:04:36 AM

Sampler - UPS - Bus - Other: -000 K 3.1 00/04/20



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

Released to Imaging: 1/24/2023 12:30:40 PM

101	East	Marland	I, Hol	bbs, M	M	88240
		93-2326				

	(575) 393-2326 FAX (575) 393-2476 npany Name: Pima Environmental								BI	LL TO					AN	ALYSI	S REC	UEST		
							P	.0. #	11 A A A A A A	208 90	\$19									
roject Manager:	Chris Jones N. Turner	ste	Man	_			c	omp		Devon			- 1							
		State: NM	Zin	5	5240	,	-			Mathe	24									
ity: /fobbs	171 1077		Lib.	V			Address:													
a	- 631-6977	Project Owne	. De	vov			City:													
Project #: 44	1	Project Owne	r. 00					state:		Zip:										
Project Name: Park way West SWD						-	Phone #:													
Project Location: EPDY							-F	ax #				N								
FOR LAB USE ONLY	Gio Gome	2	<b>T</b> T	T	M	ATRIX	_	_	ESERV	SAMP	PLING	EX								
Lab I.D.	Sample I.			# CONTAINERS GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER : ACID/BASE:			TIME	HAL	BITER	chimel						
11	South wall	47	C		1	(		-	K	1-8-2	11:00	(	X	¥	-	-				
11	South wall South wall	48	C	-	1	(		+	Ľ	-	16:10	K	+	4	-	-		-		
				+	++	+	-	+	++-		-									
			+	+	++	+		+	++											
			+	+		-		+										1		
			+	+	+	+		+										_		
			++	1	H	1	131								-			- 1		-
			11												_	-	-		-	-
																		_		-
LEASE NOTE: Liability and	d Damages. Cardinal's liability and clie g those for negligence and any other o	nt's exclusive remedy for	r any claim	arising wi waived u	hether ba niess mai	sed in co te in writ	ontract o	received	all be limite by Cardina	d to the amount pa I within 30 days aft	aid by the client fi ter completion of	or the the applica	ble.							
alyses. All claims includin ervice. In no event shall Ca	g those for negligence and any other or indinal be liable for incidental or conser- ing out of or related to the performance	quental damages, inclus of services hereunder b	ting without ov Cardinal,	limitation, regardles	business s of whet	her such	tions, lo claim is	s based	e, or loss of upon any of	profits incurred by the above stated r	easons or others	vișe.		s 🗆		d'I Phor	ne #:			
Relinquished By		Date: /-13-0	2 Rec	eiveo	d By:		1		50		Verbal R All Resul	ts are e	□ Ye mailed	. Please	provide	Email a	ddress:			
hat	lig	9:45	2	eiver	d By:	9	H	NU	ec		REMARK	KS:								
Relinquished By	<i>r</i> :	Date:	nyet.	101401												1				
		Time:									Turner	und Tim	0.	Stand	ard	Bar	teria (on	ly) Sample	Conditio	n
Delivered By: (Ci Sampler - UPS -		oserved Temp. *			Cool	res C No C	act	5		KED BY:	Turnarou	eter ID	#113	Rush	ard [	1 Coo	I Intact Yes Ye Nc N	Obser	ved Temp	o. °C

JIMMEDUO N S. I UON

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Received by OCD: 1/4/2023 7:04:36 AM

# eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

# Laboratory Job ID: 890-716-1

Client Project/Site: Mizar 11 Fed Com 14

# For:

EOR/Ridgeway Arizona Oil Corp 575 N Diairy Ashford Suite 210 Houston, Texas 77079

Attn: Chris Jones

Holly Taylor

Authorized for release by: 5/28/2021 4:44:39 PM

Holly Taylor, Project Manager (806)794-1296 holly.taylor@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 1/24/2023 12:30:40 PM

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### **Definitions/Glossary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Page 172 of 262

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
В	Compound was found in the blank and sample.	_
F1	MS and/or MSD recovery exceeds control limits.	5
F2	MS/MSD RPD exceeds control limits	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	
Qualifier	Qualifier Description	8
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	Q
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	11
Glossary		_
Abbreviation	These commonly used abbreviations may or may not be present in this report.	12
¤	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)	

DER	Duplicate Entit 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

**Case Narrative** 

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-716-1

#### Receipt

The samples were received on 5/21/2021 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

#### **Receipt Exceptions**

The following samples analyzed for method 8021 were received and analyzed from an unpreserved bulk soil jar: CS1-Surface (890-716-1), CS1-1' (890-716-2), CS2-Surface (890-716-3), CS2-1' (890-716-4), CS3-Surface (890-716-5), CS3-1' (890-716-6), CS4-Surface (890-716-7), CS4-1' (890-716-8), CS5-Surface (890-716-9), CS5-1' (890-716-10), CS6-Surface (890-716-11), CS6-1' (890-716-12), CS7-Surface (890-716-13), CS7-1' (890-716-14), CS8-Surface (890-716-15), CS8-1' (890-716-16), CS9-urface (890-716-17), CS9-1' (890-716-18), CS7-1' (890-716-19), CS10-1' (890-716-20), CS11-Surface (890-716-21), CS11-1' (890-716-22), CS12-Surface (890-716-23), CS12-1' (890-716-24), CS13-Surface (890-716-25), CS13-1' (890-716-26), CS14-Surface (890-716-27), CS14-1' (890-716-28), CS15-Surface (890-716-29), CS15-1' (890-716-30), CS16-Surface (890-716-31), CS10-1' (890-716-32), CS17-Surface (890-716-33), CS17-1' (890-716-34), CS18-Surface (890-716-35), CS18-1' (890-716-36), CS19-Surface (890-716-37), CS19-1' (890-716-38), CS20-Surface (890-716-39), CS20-1' (890-716-40), CS21-Surface (890-716-41), CS21-1' (890-716-42), CS22-Surface (890-716-43), CS22-1' (890-716-44), CS23-Surface (890-716-45) and CS23-1' (890-716-46). Btex8021

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: CS1-Surface (890-716-1), CS1-1' (890-716-2), CS2-Surface (890-716-3), CS2-1' (890-716-4), CS3-Surface (890-716-5), CS3-1' (890-716-6), CS4-Surface (890-716-7), CS4-1' (890-716-8), CS5-Surface (890-716-9), CS5-1' (890-716-10), CS6-Surface (890-716-11), CS6-1' (890-716-12), CS7-Surface (890-716-13), CS7-1' (890-716-14), CS8-Surface (890-716-15), CS8-1' (890-716-16), CS9-urface (890-716-13), CS7-1' (890-716-14), CS8-Surface (890-716-20), CS11-Surface (890-716-21), CS11-1' (890-716-22), CS12-Surface (890-716-23), CS12-1' (890-716-24), CS13-Surface (890-716-25), CS13-1' (890-716-26), CS14-Surface (890-716-27), CS14-1' (890-716-28), CS15-Surface (890-716-29), CS15-1' (890-716-30), CS16-Surface (890-716-31), CS16-1' (890-716-32), CS17-Surface (890-716-33), CS17-1' (890-716-34), CS18-Surface (890-716-35), CS18-1' (890-716-36), CS19-Surface (890-716-37), CS19-1' (890-716-38), CS20-Surface (890-716-39), CS20-1' (890-716-40), CS21-Surface (890-716-41), CS21-1' (890-716-42), CS22-Surface (890-716-43), CS22-1' (890-716-44), CS23-Surface (890-716-45) and CS23-1' (890-716-46). The client was contacted, and the laboratory was instructed to use a sample collection time of 12:00am. Samples logged as 00:00

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS7-1' (890-716-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-3388 recovered under the control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: CS22-Surface (890-716-43). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS11-1' (890-716-22), CS12-1' (890-716-24), CS13-1' (890-716-26), CS14-Surface (890-716-27), CS14-1' (890-716-28) and CS15-1' (890-716-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: CS22-1' (890-716-44) and CS23-1' (890-716-46). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS22-1' (890-716-44) and CS23-1' (890-716-46). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3457 and analytical batch

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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#### Job ID: 890-716-1 (Continued)

#### Laboratory: Eurofins Xenco, Carlsbad (Continued)

880-3460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

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: 8021B - Vo

m-Xylene & p-Xylene

Analyte Benzene Toluene Ethylbenzene

o-Xylene

. Con-Sunace					Lay Se	ample iD. 090	<i>J-1</i> 10-1	2
1/21 00:00						Matri	ix: Solid	
1/21 13:48								Α
alatila Organia Compour								
olatile Organic Compoun	is (GC)							
Re	ult Qual	lifier RI	L Unit	D	Prepared	Analyzed	Dil Fac	5
<0.00	202 UF1	F2 0.00202	2 mg/Kg	,	05/24/21 09:50	05/24/21 23:13	1	
<0.00	202 UF1	0.00202	2 mg/Kg	1	05/24/21 09:50	05/24/21 23:13	1	6
<0.00	202 UF1	0.00202	2 mg/Kg	1	05/24/21 09:50	05/24/21 23:13	1	

mg/Kg

mg/Kg

mg/Kg

05/24/21 09:50

05/24/21 09:50

05/25/21 08:49

Xylenes, Total	< 0.00403	U F1	0.00403	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Total BTEX	<0.00403	U F1 F2	0.00403	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/24/21 09:50	05/24/21 23:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/24/21 09:50	05/24/21 23:13	1
Method: 8015B NM - Diesel Ra Analyte	<b>U U</b>	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	
								1

0.00403

0.00202

<0.00403 UF1

<0.00202 UF1

<49.9 U

Total TPH	<49.9	U	49.9	mg/Kg	05/25/21 08:49	05/26/21 00:12	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130		05/25/21 08:49	05/26/21 00:12	1
o-Terphenyl	91		70 - 130		05/25/21 08:49	05/26/21 00:12	1

49.9

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 20:26	1

#### **Client Sample ID: CS1-1'**

Oll Range Organics (Over C28-C36)

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

# Lab Sample ID: 890-716-2

05/26/21 00:12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/24/21 23:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/24/21 09:50	05/24/21 23:34	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1

Gasoline Range Organics (GRO)-C6-C10

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1

1 1

Job ID: 890-716-1

# Lab Sample ID: 890-716-1

05/24/21 23:13

05/24/21 23:13

Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Client Sample ID: CS1-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/25/21 08:49	05/26/21 01:15	1
o-Terphenyl	97		70 - 130			05/25/21 08:49	05/26/21 01:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03	mg/Kg			05/26/21 20:41	1

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

0.00398

Limits

70 - 130

70 - 130

RL

49.8

49.8

49.8

49.8

RL

5.05

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

D

Prepared

05/24/21 09:50

05/24/21 09:50

05/24/21 09:50

05/24/21 09:50

05/24/21 09:50

05/24/21 09:50

05/24/21 09:50

Prepared

05/24/21 09:50

05/24/21 09:50

Prepared

05/25/21 08:49

05/25/21 08:49

05/25/21 08:49

05/25/21 08:49

Prepared

05/25/21 08:49

05/25/21 08:49

Prepared

#### Client Sample ID: CS2-Surface

Method: 8021B - Volatile Organic Compounds (GC)

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

U

U

Qualifier

<0.00199

<0.00199

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

<0.00398 U

90

97

<49.8 U

<49.8 U

<49.8 U

<49.8 U

116

102

Result Qualifier

<5.05 U

Qualifier

%Recovery

Result Qualifier

%Recovery

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

Analyte

C10-C28)

Total TPH

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

# Lab Sample ID: 890-716-3

Analyzed

05/24/21 23:54

05/24/21 23:54

05/24/21 23:54

05/24/21 23:54

05/24/21 23:54

05/24/21 23:54

05/24/21 23:54

Analyzed

05/24/21 23:54

05/24/21 23:54

Analyzed

05/26/21 01:37

05/26/21 01:37

05/26/21 01:37

05/26/21 01:37

Analyzed

05/26/21 01:37

05/26/21 01:37

Analyzed

05/26/21 20:46

Matrix: Solid

Dil Fac

1

Dil Fac

Dil Fac

1

1

1

1

1

1

1

Dil Fac

Dil Fac

5

Job ID: 890-716-1

#### Lab Sample ID: 890-716-2 Matrix: Solid

Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

### Client Sample ID: CS2-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			05/24/21 09:50	05/25/21 00:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 00:15	1

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

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
115		70 - 130			05/25/21 08:49	05/26/21 01:57	1
100		70 - 130			05/25/21 08:49	05/26/21 01:57	1
	<49.9 <49.9 <49.9 <49.9 <49.9 %Recovery 115		<49.9	<49.9 U 49.9 mg/Kg   <49.9	<49.9 U 49.9 mg/Kg   <49.9	<49.9 U 49.9 mg/Kg 05/25/21 08:49   <49.9	<49.9 U 49.9 mg/Kg 05/25/21 08:49 05/26/21 01:57   <49.9

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.68		5.02	mg/Kg			05/26/21 21:00	1

#### **Client Sample ID: CS3-Surface**

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 00:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 00:35	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1

(GRO)-C6-C10

Job ID: 890-716-1

# Lab Sample ID: 890-716-4

Matrix: Solid

5

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-716-5

Matrix: Solid

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Date Collected: 05/21/21 00:00

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS3-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/25/21 08:49	05/26/21 02:19	1
o-Terphenyl	98		70 - 130			05/25/21 08:49	05/26/21 02:19	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.35	U	5.35	mg/Kg			05/26/21 21:05	1

#### Client Sample ID: CS3-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

#### Lab Sample ID: 890-716-6 Matrix: Solid

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Method: 8021B - Volatile Organic					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/21 09:50	05/25/21 00:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 00:55	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	п	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
C10-C28)		0	40.0	ilig/itg		00/20/21 00.40	00/20/21 02.40	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130		05/25/21 08:49	05/26/21 02:40	1
o-Terphenyl	99		70 - 130		05/25/21 08:49	05/26/21 02:40	1
 Method: 300.0 - Anions, Ion Chron	natography -	Soluble					
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
Chloride	5.71		4.97	mg/Kg		05/26/21 21:10	1

Job ID: 890-716-1

# Lab Sample ID: 890-716-5

Matrix: Solid

Released to Imaging: 1/24/2023 12:30:40 PM

#### **Client Sample ID: CS4-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Job ID: 890-716-1

# Lab Sample ID: 890-716-7

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			05/24/21 09:50	05/25/21 01:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/24/21 09:50	05/25/21 01:16	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			05/25/21 08:49	05/26/21 03:01	1
o-Terphenyl	107		70 - 130			05/25/21 08:49	05/26/21 03:01	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			05/26/21 21:15	1
lient Sample ID: CS4-1'						Lab Sa	mple ID: 890	-716-8
ate Collected: 05/21/21 00:00 ate Received: 05/21/21 13:48							Matri	x: Solid
Method: 8021B - Volatile Organic	: Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Toluene	<0.00108		0.00198	ma/Ka		05/24/21 00.50	05/25/21 01:36	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/24/21 09:50	05/25/21 01:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 01:36	1
- Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1

Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS4-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/25/21 08:49	05/26/21 03:22	1
o-Terphenyl	94		70 - 130			05/25/21 08:49	05/26/21 03:22	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		4.97	mg/Kg			05/26/21 21:20	1
lient Sample ID: CS5-Surfa	се					Lab Sa	mple ID: 890	)-716-9
ate Collected: 05/21/21 00:00							Matri	ix: Solid
ate Received: 05/21/21 13:48								

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 01:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 01:57	1

Method:	8015B	NM - [	Diesel	Range	Organics	(DF	RO)	(GC)	
					_		-		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	% <b>Recovery</b> 115	Qualifier	Limits			Prepared 05/25/21 08:49	Analyzed 05/26/21 03:43	Dil Fac
		Qualifier				<u> </u>		Dil Fac 1 1
1-Chlorooctane	115 101	<u> </u>	70 - 130			05/25/21 08:49	05/26/21 03:43	Dil Fac 1 1
1-Chlorooctane o-Terphenyl		<u> </u>	70 - 130	Unit	D	05/25/21 08:49	05/26/21 03:43	Dil Fac 1 1 Dil Fac

Job ID: 890-716-1

# Lab Sample ID: 890-716-8

Matrix: Solid

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Released to Imaging: 1/24/2023 12:30:40 PM
Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

## Client Sample ID: CS5-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/24/21 09:50	05/25/21 02:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/24/21 09:50	05/25/21 02:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/25/21 08:49	05/26/21 04:04	1
o-Terphenyl	101		70 - 130			05/25/21 08:49	05/26/21 04:04	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

nalyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
hloride	6.56	4.97	mg/Kg			05/26/21 21:30	1

### Client Sample ID: CS6-Surface

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 03:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/21 09:50	05/25/21 03:39	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1

(GRO)-C6-C10

Job ID: 890-716-1

# Lab Sample ID: 890-716-10

Matrix: Solid

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Lab Sample ID: 890-716-11

Matrix: Solid

Date Collected: 05/21/21 00:00

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# **Client Sample ID: CS6-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/25/21 08:49	05/26/21 04:46	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 04:46	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		4.96	mg/Kg			05/26/21 22:09	1
Client Sample ID: CS6-1'						Lab Sar	nple ID: 890-	716-12
Date Collected: 05/21/21 00:00								x: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 03:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 03:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/25/21 08:49	05/26/21 05:08	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 05:08	1

Method: 300.0 - Anions, Ion Chron	hatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 22:24	1

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Job ID: 890-716-1

# Lab Sample ID: 890-716-11

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### **Client Sample ID: CS7-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8021B

Analyte

15/21/21 15.40				
- Volatile Organic C	Compounds (	GC)		
	Result	Qualifier	RL	
	-0.00000			

Analyte	Result	Quaimer	RL	Unit	U	Prepared	Analyzed	DirFac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 04:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/21 09:50	05/25/21 04:20	1
, , , , , , , , , , , , , , , , , , , ,								

Unit

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Droparod

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

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1
<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
104		70 - 130			05/25/21 08:49	05/26/21 05:29	1
90		70 - 130			05/25/21 08:49	05/26/21 05:29	1
	<49.9 <49.9 <49.9 <49.9 <49.9 %Recovery 104	104	<49.9	<49.9         U         49.9         mg/Kg           <49.9	<49.9	<49.9         U         49.9         mg/Kg         05/25/21 08:49           <49.9	<49.9         U         49.9         mg/Kg         05/25/21 08:49         05/26/21 05:29           <49.9

# Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			05/26/21 22:29	1

## **Client Sample ID: CS7-1'**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

# Lab Sample ID: 890-716-14

Matrix: Solid

Dil Fac

1

1

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1

Method: 8021B - Volatile Or	ganic Compounds (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	70 - 130	05/24/21 09:50	05/25/21 04:40	1
1,4-Difluorobenzene (Surr)	101	70 - 130	05/24/21 09:50	05/25/21 04:40	1

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	1
(000) 00 010								

(GRO)-C6-C10

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Job ID: 890-716-1

# Lab Sample ID: 890-716-13

Applyzod

Matrix: Solid

5

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS7-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			05/25/21 08:49	05/26/21 05:50	
p-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 05:50	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	<4.98	U	4.98	mg/Kg			05/26/21 22:33	

## Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

(GRO)-C6-C10

Method: 8021B - Volatile Organ	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 05:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 05:00	1
Method: 8015B NM - Diesel Ra	inge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:11	1

Analyte	Posult	Qualifier	PI	Unit	D Propared	Analyzod	Dil Eac
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble					
o-Terphenyl	113		70 - 130		05/25/21 08:49	05/26/21 06:11	1
1-Chlorooctane	134	S1+	70 - 130		05/25/21 08:49	05/26/21 06:11	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:11	1
C10-C28)							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:11	1

Job ID: 890-716-1

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# Lab Sample ID: 890-716-14

Matrix: Solid

5

Matrix: Solid

12 13

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Released to Imaging: 1/24/2023 12:30:40 PM

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Client Sample ID: CS8-1' Date Collected: 05/21/21 00:00 Date Received: 05/2

21/21	00:00			
21/21	13:48			

Method: 8021B - Volatile Orgai	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/24/21 09:50	05/25/21 05:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 05:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/25/21 08:49	05/26/21 06:32	1
o-Terphenyl	97		70 - 130			05/25/21 08:49	05/26/21 06:32	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualif	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			05/26/21 22:53	1

#### **Client Sample ID: CS9-urface**

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/24/21 09:50	05/25/21 05:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 05:41	1
– Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1

(GRO)-C6-C10

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Lab Sample ID: 890-716-17

Matrix: Solid

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Job ID: 890-716-1

# Lab Sample ID: 890-716-16

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

### **Client Sample ID: CS9-urface** Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/25/21 08:49	05/26/21 06:53	1
o-Terphenyl	100		70 - 130			05/25/21 08:49	05/26/21 06:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 22:58	1

#### **Client Sample ID: CS9-1'**

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

C10-C28)

le	ID:	890-716-18	
		Matrix: Solid	

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/24/21 09:50	05/25/21 06:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/24/21 09:50	05/25/21 06:02	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1
			50.0			05/05/04 00 40	05/00/01 07 11	
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130		-	05/25/21 08:49	05/26/21 07:14	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 07:14	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 23:03	1

Job ID: 890-716-1

# Lab Sample ID: 890-716-17

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

## **Client Sample ID: CS10-Surface** Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organ	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/21 09:50	05/25/21 06:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 06:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/25/21 08:49	05/26/21 07:36	1
o-Terphenyl	97		70 - 130			05/25/21 08:49	05/26/21 07:36	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 23:08	1

#### Client Sample ID: CS10-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

# Lab Sample ID: 890-716-20

Matrix: Solid

Dil Fac

1

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1

1

Dil Fac

Method: 8021B - Volatile Orga	nic Compounds	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	
4-Bromofluorobenzene (Surr)	92		70 - 130			05/24/21 09:50	05/25/21 06:43	

Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1

70 - 130

(GRO)-C6-C10

1,4-Difluorobenzene (Surr)

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05/24/21 09:50 05/25/21 06:43

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Job ID: 890-716-1

# Lab Sample ID: 890-716-19

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS10-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC) (C	continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/25/21 08:49	05/26/21 07:57	1
o-Terphenyl	99		70 - 130			05/25/21 08:49	05/26/21 07:57	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/26/21 23:13	1

#### Client Sample ID: CS11-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab Sample I	D: 890-716-21
	Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Total BTEX	<0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/24/21 09:37	05/24/21 23:12	1
1,4-Difluorobenzene (Surr)	112		70 - 130			05/24/21 09:37	05/24/21 23:12	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
easementarige organice								
(GRO)-C6-C10								
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
(GRO)-C6-C10	<49.9 <49.9		49.9 49.9	mg/Kg		05/25/21 09:04 05/25/21 09:04	05/26/21 00:12	1

Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 1-Chlorooctane 93 70 - 130 05/25/21 09:04 05/26/21 00:12 1 89 70 - 130 05/25/21 09:04 05/26/21 00:12 o-Terphenyl 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte Unit RL D Prepared Analyzed Dil Fac Chloride <4.95 U 4.95 mg/Kg 05/26/21 23:18 1

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Job ID: 890-716-1

# Lab Sample ID: 890-716-20

Matrix: Solid

5

E /00 /000 4

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Client Sample ID: CS11-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Job ID: 890-716-1

# Lab Sample ID: 890-716-22

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
p-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/24/21 09:37	05/24/21 23:32	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130			05/24/21 09:37	05/24/21 23:32	1
Method: 8015B NM - Diesel Range (	Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	
Fotal TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 01:15	1
p-Terphenyl	85		70 - 130			05/25/21 09:04	05/26/21 01:15	1
Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 23:32	1
lient Sample ID: CS12-Surfac	е					Lab San	nple ID: 890-	716-23
ate Collected: 05/21/21 00:00 ate Received: 05/21/21 13:48							Matri	x: Solid
Method: 8021B - Volatile Organic Co Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00353		0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Toluene	<0.00198		0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
	<0.00100	U	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	
	<0.00198							
Ethylbenzene	< 0.00198	U	0.00396	mg/Kg		05/24/21 09:37	05/24/21 23:53	
Ethylbenzene n-Xylene & p-Xylene		U U	0.00396 0.00198	mg/Kg mg/Kg		05/24/21 09:37 05/24/21 09:37	05/24/21 23:53 05/24/21 23:53	
Ethylbenzene m-Xylene & p-Xylene p-Xylene Xylenes, Total	<0.00396			00				

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130	05/24/21 09:37	05/24/21 23:53	1
1,4-Difluorobenzene (Surr)	107	70 - 130	05/24/21 09:37	05/24/21 23:53	1

Analyte	Ŭ	Res	ult Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		<4	9.8 U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
(GRO)-C6-C10									

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Released to Imaging: 1/24/2023 12:30:40 PM

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS12-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			05/25/21 09:04	05/26/21 01:37	1
o-Terphenyl	80		70 - 130			05/25/21 09:04	05/26/21 01:37	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte								

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/24/21 09:37	05/25/21 00:14	1
1,4-Difluorobenzene (Surr)	115		70 - 130			05/24/21 09:37	05/25/21 00:14	1

Australia	Desult	0		11 14		Durana	A	D:1 E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			05/25/21 09:04	05/26/21 01:57	1
o-Terphenyl	102		70 - 130			05/25/21 09:04	05/26/21 01:57	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.97	mg/Kg			05/26/21 23:52	

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Job ID: 890-716-1

# Lab Sample ID: 890-716-23

Matrix: Solid

5

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### **Client Sample ID: CS13-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8021B

5/21/21 15.40	
- Volatile Organic Compounds (GC)	
Result Qualifier	RL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/24/21 09:37	05/25/21 00:34	1
1,4-Difluorobenzene (Surr)	114		70 - 130			05/24/21 09:37	05/25/21 00:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/25/21 09:04	05/26/21 02:19	1
o-Terphenyl	91		70 - 130			05/25/21 09:04	05/26/21 02:19	1

# Method

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/26/21 23:57	1

#### **Client S**

# 16-26

: Solid

Dil Fac

1

1

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Job ID: 890-716-1

# Lab Sample ID: 890-716-25

Matrix: Solid

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	
1-Chlorooctane	100		70 - 130			05/25/21 09:04	05/26/21 02:19	
o-Terphenyl	91		70 - 130			05/25/21 09:04	05/26/21 02:19	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	I
Chloride	<4.99	U	4.99	mg/Kg			05/26/21 23:57	
Client Sample ID: CS13-1'						Lab San	nple ID: 890-	71
olient bample ib. 0010-1							<b>BB</b> = 4-4	iv.
Date Collected: 05/21/21 00:00							Matri	IX.
							Matr	IX. 1
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48								IX
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ								
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ	Result <0.00202	Qualifier U	0.00202	mg/Kg	D	05/24/21 09:37	Analyzed	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte	Result           <0.00202	Qualifier U U	0.00202	mg/Kg mg/Kg	D	05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene	Result <0.00202	Qualifier U U	0.00202	mg/Kg	<u>D</u>	05/24/21 09:37	Analyzed	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene	Result           <0.00202	Qualifier U U U	0.00202	mg/Kg mg/Kg	<u> </u>	05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene	Result <0.00202 <0.00202 <0.00202	Qualifier U U U U	0.00202 0.00202 0.00202	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00202	Qualifier U U U U U U	0.00202 0.00202 0.00202 0.00202	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00202	Qualifier U U U U U U U	0.00202 0.00202 0.00202 0.00404 0.00202	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result           <0.00202	Qualifier U U U U U U U U U	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX	Result           <0.00202	Qualifier U U U U U U U U U	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404 0.00404	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate	Result           <0.00202	Qualifier U U U U U U U U U	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404 0.00404 Limits	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 <b>Prepared</b>	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 Analyzed	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr)	Result           <0.00202	Qualifier U U U U U U U Qualifier S1+	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404 0.00404 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 <b>Prepared</b> 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 Analyzed 05/25/21 00:55	
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result           <0.00202	Qualifier U U U U U U U Qualifier S1+	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404 0.00404 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 <b>Prepared</b> 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 Analyzed 05/25/21 00:55	 
Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rar	Result           <0.00202	Qualifier U U U U U U Qualifier S1+ RO) (GC) Qualifier	0.00202 0.00202 0.00202 0.00404 0.00202 0.00404 0.00404 <i>Limits</i> 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 05/24/21 09:37 <i>Prepared</i> 05/24/21 09:37 05/24/21 09:37	Analyzed 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 05/25/21 00:55 Analyzed 05/25/21 00:55 05/25/21 00:55	

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Client Sample ID: CS13-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/25/21 09:04	05/26/21 02:40	1
o-Terphenyl	101		70 - 130			05/25/21 09:04	05/26/21 02:40	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			05/27/21 00:02	1

#### Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

C10-C28)

Chloride

# Matrix: Solid

ac	
ac	

5

Method: 8021B - Volatile Orga	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/24/21 09:37	05/25/21 01:16	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130			05/24/21 09:37	05/25/21 01:16	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1

Oll Range Organics (Over C28-C36) <50.0 U 50.0 05/25/21 09:04 05/26/21 03:01 mg/Kg 1 Total TPH <50.0 U 50.0 05/25/21 09:04 05/26/21 03:01 mg/Kg 1 Limits Prepared Surrogate %Recovery Qualifier Analyzed Dil Fac 1-Chlorooctane 87 70 - 130 05/25/21 09:04 05/26/21 03:01 1 81 05/25/21 09:04 05/26/21 03:01 o-Terphenyl 70 - 130 1 Method: 300.0 - Anions, Ion Chromatography - Soluble **Result Qualifier** Unit Analyte RL D Prepared Analyzed Dil Fac

5.00

mg/Kg

5.98

Job ID: 890-716-1

# Lab Sample ID: 890-716-26

Matrix: Solid

1

05/27/21 00:07

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS14-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/24/21 09:37	05/25/21 01:36	1
1,4-Difluorobenzene (Surr)	110		70 - 130			05/24/21 09:37	05/25/21 01:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			05/25/21 09:04	05/26/21 03:22	1
o-Terphenyl	89		70 - 130			05/25/21 09:04	05/26/21 03:22	1
—								

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173	5.00	mg/Kg			05/27/21 00:11	1

#### Client Sample ID: CS15-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			05/24/21 09:37	05/25/21 01:57	1
1,4-Difluorobenzene (Surr)	123		70 - 130			05/24/21 09:37	05/25/21 01:57	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1

(GRO)-C6-C10

Job ID: 890-716-1

# Lab Sample ID: 890-716-28

Matrix: Solid

5

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Lab Sample ID: 890-716-29

Matrix: Solid

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS15-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 03:43	1
o-Terphenyl	86		70 - 130			05/25/21 09:04	05/26/21 03:43	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.04	mg/Kg			05/27/21 00:16	1
Client Sample ID: CS15-1'						Lab Sar	nple ID: 890-	716-30
Date Collected: 05/21/21 00:00								x: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			05/24/21 09:37	05/25/21 02:18	1
1,4-Difluorobenzene (Surr)	121		70 - 130			05/24/21 09:37	05/25/21 02:18	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/25/21 09:04	05/26/21 04:04	1
o-Terphenyl	80		70 - 130			05/25/21 09:04	05/26/21 04:04	1
– Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		5.05	mg/Kg			05/27/21 00:21	1

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Job ID: 890-716-1

# Lab Sample ID: 890-716-29

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

## **Client Sample ID: CS16-Surface** Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organ	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/25/21 08:50	05/25/21 16:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/25/21 08:50	05/25/21 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			05/25/21 09:04	05/26/21 04:46	1
o-Terphenyl	75		70 - 130			05/25/21 09:04	05/26/21 04:46	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Chloride <4.96 U 4.96 ma/Ka 05/27/21 01:00	Result Qualifier RL Unit	Qualifier RL Unit D Prepared Analyzed	Dil Fac
	<4.96 U	J 4.96 mg/Kg 05/27/21 01:00	1

#### **Client Sample ID: C**

# 890-716-32

Matrix: Solid

Dil Fac

1

Client Sample ID: CS16-1'						Lab San	nple ID: 890-
Date Collected: 05/21/21 00:00							Matri
Date Received: 05/21/21 13:48							
Method: 8021B - Volatile Organic	Compounds (	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19

Analyte							-	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
1,4-Difluorobenzene (Surr) 	97		70 - 130			05/25/21 08:50	05/25/21 17:19	1
4-Bromofluorobenzene (Surr)	94		70 - 130			05/25/21 08:50	05/25/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1

Gasoline Range Organics (GRO)-C6-C10

Job ID: 890-716-1

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# Lab Sample ID: 890-716-31

Matrix: Solid

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

### Client Sample ID: CS16-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
Total TPH	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/26/21 14:55	05/27/21 06:05	1
o-Terphenyl	80		70 - 130			05/26/21 14:55	05/27/21 06:05	1
Nothod: 300.0 - Anions, Ion Chr	omatography -	Solublo						
Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte				Unit mg/Kg	D	Prepared	Analyzed 05/27/21 01:15	Dil Fac
Analyte Chloride	Result 6.44				D			
Analyte Chloride Client Sample ID: CS17-Sur	Result 6.44				<u>D</u>		05/27/21 01:15	Dil Fac 1 716-33 x: Solic
Analyte Chloride Client Sample ID: CS17-Sur Date Collected: 05/21/21 00:00	Result 6.44				<u>D</u>		05/27/21 01:15	716-33
	Result 6.44 face	Qualifier			<u>D</u>		05/27/21 01:15	716-33

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/25/21 08:50	05/25/21 17:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/25/21 08:50	05/25/21 17:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/25/21 09:04	05/26/21 05:29	1
o-Terphenyl	102		70 - 130			05/25/21 09:04	05/26/21 05:29	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

8.27

Eurofins Xenco, Carlsbad

05/27/21 01:20

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Job ID: 890-716-1

# Lab Sample ID: 890-716-32

Matrix: Solid

1

Chloride

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Client Sample ID: CS17-1' **Date Colle** Date Rece

ected:	05/21/21	00:00
eived:	05/21/21	13:48

Method: 8021B - Volatile Organ	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/25/21 08:50	05/25/21 18:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/25/21 08:50	05/25/21 18:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/25/21 09:04	05/26/21 05:50	1
o-Terphenyl	93		70 - 130			05/25/21 09:04	05/26/21 05:50	1
Surrogate 1-Chlorooctane	%Recovery 102		Limits 70 - 130	mg/Kg		Prepared 05/25/21 09:04	05	<b>Analyzed</b> 5/26/21 05:50

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/27/21 01:25	1

#### **Client Sample ID: CS18-Surface**

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/25/21 08:50	05/25/21 18:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/25/21 08:50	05/25/21 18:20	1
– Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	1

(GRO)-C6-C10

5

#### Lab Sample ID: 890-716-34 Matrix: Solid

Lab Sample ID: 890-716-35

Matrix: Solid

Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# **Client Sample ID: CS18-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 06:11	
o-Terphenyl	84		70 - 130			05/25/21 09:04	05/26/21 06:11	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	<5.04	U	5.04	mg/Kg			05/27/21 01:30	

#### **Client Sample ID: CS18-1'**

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Г

## Lab Sample ID: 890-716-36 Matrix: Solid

Analyzed

05/25/21 18:41

05/25/21 18:41

05/25/21 18:41

05/25/21 18:41

05/25/21 08:50

Dil Fac

1

1

1

1

Method: 8021B - Volatile Org	anic Compounds (	GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared
Benzene	<0.00201	U	0.00201	mg/Kg		05/25/21 08:50
Toluene	<0.00201	U	0.00201	mg/Kg		05/25/21 08:50
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/25/21 08:50

99

<5.05 U

4-Bromofluorobenzene (Surr)	91		70 - 130		05/25/21 08:50	05/25/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1

70 - 130

1.4-Difluorobenzene	(Surr)
	(Sull)

Chloride

Metho	d: 8015B	NM - Die	esel Rang	• Organics	(DRO)	(GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/25/21 09:04	05/26/21 06:32	1
o-Terphenyl	82		70 - 130			05/25/21 09:04	05/26/21 06:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.05

mg/Kg

Eurofins Xenco, Carlsbad

05/27/21 01:44

5

Job ID: 890-716-1

# Lab Sample ID: 890-716-35

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

## **Client Sample ID: CS19-Surface** Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga	nic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/25/21 08:50	05/25/21 19:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/25/21 08:50	05/25/21 19:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/25/21 09:04	05/26/21 06:53	1
o-Terphenyl	79		70 - 130			05/25/21 09:04	05/26/21 06:53	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			05/27/21 01:49	1

#### Client Sample ID: CS19-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

# Lab Sample ID: 890-716-38

Analyzed

Matrix: Solid

Dil Fac

1

1

1

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier Unit RL D Prepared <0.00199 U 0.00199 05/25/21 08:50 05/25/21 19:22 mg/Kg <0.00199 U 0.00199 mg/Kg 05/25/21 08:50 05/25/21 19:22 <0.00199 U 0.00199 05/25/21 19:22 mg/Kg 05/25/21 08:50

5				00			
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/25/21 08:50	05/25/21 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/25/21 08:50	05/25/21 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/25/21 08:50	05/25/21 19:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/25/21 08:50	05/25/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		05/25/21 08:50	05/25/21 19:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130		05/25/21 08:50	05/25/21 19:22	1
 Method: 8015B NM - Diesel Ra							
Mathadi 901ED NM Diagol Da							

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
	-00.0	-	23.0			00.20.21 00.01	00.20.2107.11	

(GRO)-C6-C10

Analyte

Benzene

Toluene

Ethylbenzene

Eurofins Xenco, Carlsbad

Job ID: 890-716-1

# Lab Sample ID: 890-716-37

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS19-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (C	ontinued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			05/25/21 09:04	05/26/21 07:14	1
o-Terphenyl	56	S1-	70 - 130			05/25/21 09:04	05/26/21 07:14	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			05/27/21 01:54	1

#### **Client Sample ID: CS20-Surface**

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

### Lab Sample ID: 890-716-39 Matrix: Solid

05/25/21 19:42

05/25/21 08:50

1

1

1

1

1

1

1

1

1

Dil Fac

	13
Dil Fac	
1	

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	89		70 - 130			05/25/21 08:50	05/25/21 19:42

<4.99 U

4-Bromofluorobenzene (Surr)	89	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			05/25/21 09:04	05/26/21 07:36	1
o-Terphenyl	67	S1-	70 - 130			05/25/21 09:04	05/26/21 07:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4.99

mg/Kg

05/27/21 01:59

Matrix: Solid

Lab Sample ID: 890-716-38

Chloride

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

## Client Sample ID: CS20-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organ	ni <mark>c Compounds</mark> (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/25/21 08:50	05/25/21 20:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/25/21 08:50	05/25/21 20:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 07:57	1
o-Terphenyl	83		70 - 130			05/25/21 09:04	05/26/21 07:57	1
<u> </u>								

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			05/27/21 02:04	1

#### Client Sample ID: CS21-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Orga		· · · · · · · · · · · · · · · · · · ·						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 22:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			05/24/21 13:00	05/25/21 06:54	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/24/21 13:00	05/25/21 06:54	1
– Method: 8015B NM - Diesel Ra	inge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1

(GRO)-C6-C10

#### Lab Sample ID: 890-716-41 Matrix: Solid

Job ID: 890-716-1

# Lab Sample ID: 890-716-40

Matrix: Solid

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Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# **Client Sample ID: CS21-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			05/24/21 16:09	05/25/21 20:45	1
o-Terphenyl	110		70 - 130			05/24/21 16:09	05/25/21 20:45	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		5.00	mg/Kg			05/27/21 02:09	1
Client Sample ID: CS21-1'						Lab Sar	nple ID: 890-	716-42
Date Collected: 05/21/21 00:00							Matri	x: Solid
Date Received: 05/21/21 13:48								

Method: 8021B - Volatile Organic	Compounds (	GC)		
Analyte	Result	Qualifier	RL	
Benzene	<0.00200	U	0.00200	

100

<5.04 U

4-Bromofluorobenzene (Surr)	115		70 - 130		05/24/21 13:00	05/25/21 07:15	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
Toluene	<0.00201	U	0.00201	mg/Kg	05/24/21 13:00	05/25/21 07:15	1
Benzene	<0.00200	U	0.00200	mg/Kg	05/25/21 10:23	05/25/21 22:45	1

70 - 130

Unit

mg/Kg

D

Prepared

05/24/21 13:00

1 4-Difluorobenzene (Surr)	

Chloride

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
104		70 - 130			05/24/21 16:09	05/25/21 21:06	1
114		70 - 130			05/24/21 16:09	05/25/21 21:06	1
	Oslubla						
matography -	Soluble						
-	<50.0 <50.0 <50.0 <50.0 %Recovery 104 114	104	<50.0	<50.0         U         50.0         mg/Kg           <50.0	<50.0         U         50.0         mg/Kg           <50.0	<50.0         U         50.0         mg/Kg         05/24/21 16:09           <50.0	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

5.04

05/27/21 02:23

Job ID: 890-716-1

# Lab Sample ID: 890-716-41

Analyzed

05/25/21 07:15

Matrix: Solid

Dil Fac

1

1

#### Client Sample ID: CS22-Surface Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Job ID: 890-716-1

# Lab Sample ID: 890-716-43

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 23:10	
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	
p-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	98		70 - 130			05/24/21 13:00	05/25/21 07:35	
1,4-Difluorobenzene (Surr)	89		70 - 130			05/24/21 13:00	05/25/21 07:35	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	_
(GRO)-C6-C10			10.0					
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	П	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	
Total TPH	<49.9		49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	
	-+0.0	0	45.5	ilig/itg		00/24/21 10:03	00/20/21 21.20	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane	101		70 - 130			05/24/21 16:09	05/25/21 21:28	
p-Terphenyl	98		70 - 130			05/24/21 16:09	05/25/21 21:28	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Chloride	6.10		5.02	mg/Kg			05/27/21 02:28	
lient Sample ID: CS22-1'						Lab San	nple ID: 890-	716-4
ate Collected: 05/21/21 00:00							Matri	ix: Sol
ate Received: 05/21/21 13:48								
Method: 8021B - Volatile Organic								
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil F
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 23:36	
Foluene	< 0.00199		0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	
Ethylbenzene	<0.00199		0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	
n-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	
o-Xylene	<0.00199		0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	
Xylenes, Total	<0.00398		0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/24/21 13:00	05/25/21 07:56	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0 U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1

(GRO)-C6-C10

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Released to Imaging: 1/24/2023 12:30:40 PM

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

# Client Sample ID: CS22-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			05/24/21 16:09	05/25/21 21:49	1
o-Terphenyl	91		70 - 130			05/24/21 16:09	05/25/21 21:49	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.38		4.96	mg/Kg			05/27/21 02:43	1
Client Sample ID: CS23-Surf	ace					Lab Sar	nple ID: 890-	716-45
Date Collected: 05/21/21 00:00								x: Solid

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 10:23	05/26/21 00:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			05/24/21 13:00	05/25/21 08:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/24/21 13:00	05/25/21 08:16	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Total TPH	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/24/21 16:09	05/25/21 22:11	1
o-Terphenyl	107		70 - 130			05/24/21 16:09	05/25/21 22:11	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/27/21 02:48	1

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Job ID: 890-716-1

# Lab Sample ID: 890-716-44

Matrix: Solid

# Client Sample ID: CS23-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00197	U	0.00197	mg/Kg		05/25/21 10:23	05/26/21 00:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 _ 130			05/24/21 13:00	05/25/21 08:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/24/21 13:00	05/25/21 08:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/24/21 16:09	05/25/21 22:32	1
o-Terphenyl	104		70 - 130			05/24/21 16:09	05/25/21 22:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44		5.04	mg/Kg			05/27/21 02:53	1

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Job ID: 890-716-1

# Lab Sample ID: 890-716-46

Matrix: Solid

5

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Lab Sample ID 820-756-A-11-G MS 820-756-A-11-H MSD 880-2390-A-1-H MS 880-2390-A-1-I MSD 890-715-A-11-E MS 890-715-A-11-F MSD

890-716-1 890-716-1 MS 890-716-1 MSD 890-716-2 890-716-3 890-716-4 890-716-5 890-716-6 890-716-7 890-716-8 890-716-9 890-716-10 890-716-11 890-716-12 890-716-13 890-716-14 890-716-15 890-716-16 890-716-17 890-716-18 890-716-19 890-716-20 890-716-21 890-716-21 MS 890-716-21 MSD 890-716-22 890-716-23 890-716-24 890-716-25 890-716-26 890-716-27 890-716-28

890-716-29

890-716-30 890-716-31

890-716-32

890-716-33

890-716-34

890-716-35

890-716-36

890-716-37

890-716-38

890-716-39

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
_	Client Sample ID	(70-130)	(70-130)		
_	Matrix Spike	110	94		
	Matrix Spike Duplicate	132 S1+	87		
	Matrix Spike	104	107		
	Matrix Spike Duplicate	86	100		
	Matrix Spike	89	102		
	Matrix Spike Duplicate	100	103		
	CS1-Surface	91	98		
	CS1-Surface	96	99		
	CS1-Surface	95	94		
	CS1-1'	96	100		
	CS2-Surface	90	97		
	CS2-1'	89	94		
	CS3-Surface	93	97		
	CS3-1'	87	94		
	CS4-Surface	85	100		
	CS4-1'	84	94		
	CS5-Surface	93	96		
	CS5-1'	95	100		
	CS6-Surface	93	95		
	CS6-1'	93	96		
	CS7-Surface	96	95		
	CS7-1'	85	101		
	CS8-Surface	94	97		
	CS8-1'	92	97		
	CS9-urface	84	97		
	CS9-1'	90	98		
	CS10-Surface	87	96		
	CS10-1'	92	101		
	CS11-Surface	99	112		
	CS11-Surface	100	126		
	CS11-Surface	92	112		
	CS11-1'	113	139 S1+		
	CS12-Surface	105	107		
	CS12-1'	107	115		
	CS13-Surface	91	114		
	CS13-1'	122	135 S1+		
	CS14-Surface	113	138 S1+		
	CS14-1'	109	110		

Job ID: 890-716-1

Prep Type: Total/NA

CS15-Surface

CS16-Surface

CS17-Surface

CS18-Surface

CS19-Surface

CS20-Surface

CS15-1'

CS16-1'

CS17-1'

CS18-1'

CS19-1'

110

119

92

94

93

92

97

91

93

92

89

123

121

101

97

99

99

101

99

99

100

# **Surrogate Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-716-40	CS20-1'	94	98		
890-716-41	CS21-Surface	149 S1+	85		6
890-716-42	CS21-1'	115	100		U
890-716-43	CS22-Surface	98	89		
890-716-44	CS22-1'	133 S1+	80		
890-716-45	CS23-Surface	115	101		0
890-716-46	CS23-1'	137 S1+	90		ŏ
LCS 880-3389/1-A	Lab Control Sample	107	92		
LCS 880-3390/1-A	Lab Control Sample	95	120		
LCS 880-3392/1-A	Lab Control Sample	110	100		
LCS 880-3445/1-A	Lab Control Sample	109	104		
LCS 880-3457/1-A	Lab Control Sample	98	98		
LCSD 880-3389/2-A	Lab Control Sample Dup	99	88		
LCSD 880-3390/2-A	Lab Control Sample Dup	90	111		
LCSD 880-3392/2-A	Lab Control Sample Dup	98	103		
LCSD 880-3445/2-A	Lab Control Sample Dup	102	104		
LCSD 880-3457/2-A	Lab Control Sample Dup	92	90		
MB 880-3334/5-A	Method Blank	84	98		13
MB 880-3385/5-A	Method Blank	94	99		
MB 880-3388/8	Method Blank	107	93		
MB 880-3389/5-A	Method Blank	108	91		
MB 880-3390/5-A	Method Blank	98	92		
MB 880-3392/5-A	Method Blank	87	94		
MB 880-3445/5-A	Method Blank	86	96		
MB 880-3457/5-A	Method Blank	69 S1-	79		
MB 880-3460/8	Method Blank	69 S1-	81		

#### 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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-2503-A-21-B MS	Matrix Spike	88	73
880-2503-A-21-C MSD	Matrix Spike Duplicate	89	73
890-715-A-1-E MS	Matrix Spike	105	94
890-715-A-1-F MSD	Matrix Spike Duplicate	103	93
890-716-1	CS1-Surface	104	91
890-716-1 MS	CS1-Surface	90	70
890-716-1 MSD	CS1-Surface	101	80
890-716-2	CS1-1'	110	97
890-716-3	CS2-Surface	116	102
890-716-4	CS2-1'	115	100
890-716-5	CS3-Surface	112	98
890-716-6	CS3-1'	115	99
890-716-7	CS4-Surface	123	107
890-716-8	CS4-1'	113	94

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Job ID: 890-716-1

Prep Type: Total/NA

# **Surrogate Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-716-9	CS5-Surface	115	101	
890-716-10	CS5-1'	115	101	
890-716-11	CS6-Surface	112	96	
890-716-12	CS6-1'	114	96	
890-716-13	CS7-Surface	104	90	
890-716-14	CS7-1'	113	96	
890-716-15	CS8-Surface	134 S1+	113	
890-716-16	CS8-1'			
		112	97 100	
890-716-17	CS9-urface	115	100	
890-716-18	CS9-1'	112	96	
890-716-19	CS10-Surface	113	97	
890-716-20	CS10-1'	114	99	
890-716-21	CS11-Surface	93	89	
890-716-21 MS	CS11-Surface	83	70	
890-716-21 MSD	CS11-Surface	88	74	
890-716-22	CS11-1'	91	85	
890-716-23	CS12-Surface	86	80	
890-716-24	CS12-1'	108	102	
890-716-25	CS13-Surface	100	91	
890-716-26	CS13-1'	103	101	
890-716-27	CS14-Surface	87	81	
890-716-28	CS14-1'	94	89	
890-716-29	CS15-Surface	91	86	
890-716-30	CS15-1'	85	80	
890-716-31	CS16-Surface	80	75	
890-716-32	CS16-1'	95	75 80	
890-716-33	CS17-Surface	110	102	
890-716-34	CS17-1'	102	93	
890-716-35	CS18-Surface	91	84	
890-716-36	CS18-1'	87	82	
890-716-37	CS19-Surface	85	79	
890-716-38	CS19-1'	64 S1-	56 S1-	
890-716-39	CS20-Surface	75	67 S1-	
890-716-40	CS20-1'	91	83	
890-716-41	CS21-Surface	106	110	
890-716-42	CS21-1'	104	114	
890-716-43	CS22-Surface	101	98	
890-716-44	CS22-1'	92	91	
890-716-45	CS23-Surface	116	107	
890-716-46	CS23-1'	111	104	
LCS 880-3429/2-A	Lab Control Sample	110	107	
LCS 880-3444/2-A	Lab Control Sample	114	101	
LCS 880-3450/2-A	Lab Control Sample	103	95	
LCS 880-3539/2-A	Lab Control Sample	105	87	
LCSD 880-3429/3-A	Lab Control Sample Dup	100	106	
LCSD 880-3444/3-A	Lab Control Sample Dup	119	100	
LCSD 880-3450/3-A	Lab Control Sample Dup	106	97 70	
LCSD 880-3539/3-A	Lab Control Sample Dup	96	78	
MB 880-3429/1-A	Method Blank	101	107	

5

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Job ID: 890-716-1

Job ID: 890-716-1

## **Surrogate Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Matrix: Solid				Prep Type: Total/NA	
				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
MB 880-3450/1-A	Method Blank	102	102		
MB 880-3539/1-A	Method Blank	93	86		6
Surrogate Legend					
1CO = 1-Chlorooctane					
OTDU - a Tambanul					

OTPH = o-Terphenyl

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

– Lab Sample ID: MB 880-3334/5-A Matrix: Solid						Client Sa	mple ID: Metho Prep Type: <sup>-</sup>	
Analysis Batch: 3386							Prep Bate	
Analysis Daten. 3500	MB	МВ					Thep Batt	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Toluene	< 0.00200		0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Ethylbenzene	< 0.00200		0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
m-Xylene & p-Xylene	< 0.00400		0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	· · · · · · · · · 1
o-Xylene	< 0.00200		0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Xylenes, Total	< 0.00400		0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Total BTEX	<0.00400		0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	
	0.00100	0	0.00100	ing/itg		00/2 //21 00:00	00/21/21 12:01	
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/24/21 08:30	05/24/21 12:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/24/21 08:30	05/24/21 12:01	1
<u> </u>								
Lab Sample ID: MB 880-3385/5-A						Client Sa	mple ID: Metho	
Matrix: Solid							Prep Type:	
Analysis Batch: 3387							Prep Bate	ch: 3385
		MB			_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Toluene	<0.00200		0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
m-Xylene & p-Xylene	<0.00400		0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Xylenes, Total	<0.00400		0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/24/21 08:38	05/24/21 11:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/24/21 08:38	05/24/21 11:49	1
Lab Sample ID: MB 880-3388/8						Client Sa	mple ID: Metho	d Blank
Matrix: Solid							Prep Type: 7	
Analysis Batch: 3388								
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1
	_							
		MB				_		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: MB 880-3389/5-A

Matrix: Solid

Analysis Batch: 3388

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

	М	B MB									
Analyte	Resu	lt Qualifier	RL		Unit		D	Prepared	Analyz	ed	Dil Fa
Benzene	<0.0020	0 U	0.00200		mg/Kg	1	05/	24/21 13:00	05/25/21 (	)1:12	
Toluene	<0.0020	0 U	0.00200		mg/Kg	1	05/	24/21 13:00	05/25/21 (	01:12	
Ethylbenzene	<0.0020	0 U	0.00200		mg/Kg	1	05/	24/21 13:00	05/25/21 (	)1:12	
m-Xylene & p-Xylene	<0.0040	0 U	0.00400		mg/Kg	 J	05/	24/21 13:00	05/25/21 (	)1:12	
o-Xylene	<0.0020	0 U	0.00200		mg/Kg	1	05/	24/21 13:00	05/25/21 (	)1:12	
Xylenes, Total	<0.0040	0 U	0.00400		mg/Kg	1	05/	24/21 13:00	05/25/21 (	)1:12	
Total BTEX	<0.0040	0 U	0.00400		mg/Kg		05/	24/21 13:00	05/25/21 (	)1:12	
	М	B MB									
Surrogate	%Recover	ry Qualifier	Limits					Prepared	Analyz	ed	Dil Fa
4-Bromofluorobenzene (Surr)	10	8	70 - 130				05/	24/21 13:00	05/25/21 (	01:12	
1,4-Difluorobenzene (Surr)	g	01	70 - 130				05/	24/21 13:00	05/25/21 (	01:12	
Lab Sample ID: LCS 880-338	39/1-A						Clier	t Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid									Prep T	ype: To	otal/N/
Analysis Batch: 3388										o Batch	
-			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene			0.100	0.08576		mg/Kg		86	70 - 130		
Toluene			0.100	0.1109		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1129		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene			0.200	0.2336		mg/Kg		117	70 - 130		
o-Xylene			0.100	0.1165		mg/Kg		117	70 - 130		
		~									
Surrogate	LCS LC %Recovery Q	CS ualifier	Limits								
			Limits 70 - 130								
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery Qu										
4-Bromofluorobenzene (Surr)	% <b>Recovery</b> Qu 107 92		70 - 130			Cli	ent Sa	nple ID: L	ab Contro	I Samp	le Dup
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	% <b>Recovery</b> Qu 107 92		70 - 130			Cli	ent Sa	nple ID: L		-	-
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid	% <b>Recovery</b> Qu 107 92		70 - 130			Cli	ent Sai	nple ID: L	Prep T	ype: To	otal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3	% <b>Recovery</b> Qu 107 92		70 - 130	LCSD	LCSD	Cli	ent Sa	nple ID: L	Prep T	-	otal/NA n: 3389
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130		LCSD Qualifier	Cli Unit	ent Sar	nple ID: L %Rec	Prep T Prej	ype: To	otal/NA n: 3389 RPI
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 3388	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130 <b>Spike</b>			Unit		-	Prep T Prej %Rec.	ype: To b Batch	n: 3389 RPI
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 3388 Analyte Benzene	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130 Spike Added	Result		Unit mg/Kg		%Rec	Prep T Pre %Rec. Limits	ype: To b Batch RPD	otal/NA n: 3389 RPI Limi 39
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130 Spike Added 0.100 0.100	<b>Result</b> 0.08076 0.1080		Unit mg/Kg mg/Kg		<b>%Rec</b> 81 108	Prep T           Prep           %Rec.           Limits           70 - 130           70 - 130	ype: To b Batch RPD 6 3	otal/NA n: 3389 RPI Limi 39
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130 Spike Added 0.100 0.100 0.100	Result 0.08076 0.1080 0.1103		Unit mg/Kg mg/Kg mg/Kg		%Rec 81 108 110	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To b Batch RPD 6 3 2	otal/N/ n: 3389 RPI Limi 33 33 33
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene	% <b>Recovery</b> Qu 107 92		70 - 130 70 - 130 Spike Added 0.100 0.100	<b>Result</b> 0.08076 0.1080		Unit mg/Kg mg/Kg		<b>%Rec</b> 81 108	Prep T           Prep           %Rec.           Limits           70 - 130           70 - 130	ype: To b Batch RPD 6 3	Dtal/NA 1: 3388 RPI Limi 3: 3: 3: 3: 3: 3:
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	% <b>Recovery</b> Qu 107 92	ualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.100 0.100 0.100 0.200	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		<b>%Rec</b> 81 108 110 113	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch RPD 6 3 2 3	otal/NA n: 3389 RPI Limi 34 34 35
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	%Recovery Qu 107 92 389/2-A 	ualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.100 0.100 0.100 0.200	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		<b>%Rec</b> 81 108 110 113	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch RPD 6 3 2 3	Dtal/NA 1: 3388 RPI Limi 3: 3: 3: 3: 3: 3:
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	%Recovery Qu 107 92 389/2-A 	ualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.100 0.100 0.100 0.200 0.100	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		<b>%Rec</b> 81 108 110 113	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch RPD 6 3 2 3	Dtal/NA 1: 3388 RPI Limi 3: 3: 3: 3: 3: 3:
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	Qu 107 92 389/2-A  	ualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.100 0.100 0.200 0.100 U.100	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		<b>%Rec</b> 81 108 110 113	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch RPD 6 3 2 3	otal/NA n: 3389 RPE Limi 38 38 38
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	<u>%Recovery</u> Qu 107 92 389/2-A 	ualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 81 108 110 113 110	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 6 3 2 3 6	otal/N/ n: 338 RPI Lim 3 3 3 3 3 3 3
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<u>%Recovery</u> Qu 107 92 389/2-A 	ualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 81 108 110 113 110	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 6 3 2 3 6 Matrix	otal/N/ n: 3389 RPI Limi 39 39 39 39 39 39 39 39 39 39 39 39 39
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 820-756-A-1 Matrix: Solid	<u>%Recovery</u> Qu 107 92 389/2-A 	ualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100	Result 0.08076 0.1080 0.1103 0.2257		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 81 108 110 113 110	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 6 3 2 3 6 Matrix	tal/N/ n: 3389 RPI Limi 34 34 34 34 34 34 34 34 34 34
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3: Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 820-756-A-1	<u>%Recovery</u> Qu 107 92 389/2-A 	ualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100	Result 0.08076 0.1080 0.1103 0.2257 0.1098		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 81 108 110 113 110	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 6 3 2 3 6 Matrix ype: To	tal/NA n: 3389 RPD Limit 35 35 35 35 35 35 35 35 35 35
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3: Matrix: Solid Analysis Batch: 3388 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 820-756-A-1 Matrix: Solid	<u>%Recovery</u> <u>Qu</u> 107 92 389/2-A <u>LCSD</u> <u>LC</u> <u>%Recovery</u> <u>Qu</u> 99 88 1-G MS	ualifier CSD ualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.100 0.100 0.200 0.100 0.200 0.100 <i>Limits</i> 70 - 130 70 - 130	Result 0.08076 0.1080 0.1103 0.2257 0.1098	Qualifier	Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 81 108 110 113 110	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 70 - 190	ype: To b Batch 6 3 2 3 6 Matrix ype: To	tal/NA n: 3389 RPD Limit 35 35 35 35 35 35 35 35 35 35

#### Eurofins Xenco, Carlsbad

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Job ID: 890-716-1

Prep Type: Total/NA

Prep Batch: 3389

**Client Sample ID: Method Blank** 

1

5/28/2021

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 820-756-A-1	11-G MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 3388									Pre	p Batch	: 3389
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Toluene	<0.00200	U	0.100	0.08622		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09371		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1810		mg/Kg		90	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1066		mg/Kg		106	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								
									Matrix Or		
Lab Sample ID: 820-756-A-1	IT-H MSD					CI	ient Sa		: Matrix Sp		
Matrix: Solid										Type: To	
Analysis Batch: 3388	<u> </u>	<b>.</b> .	<b>.</b>							p Batch	
• h	•	Sample	Spike		MSD	1114	-	0/ <b>D</b>	%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00200		0.0998	0.06302	F1	mg/Kg		63	70 <sub>-</sub> 130	26	35
Toluene	< 0.00200		0.0998 0.0998	0.08004 0.09836		mg/Kg		80	70 <sub>-</sub> 130	7	35
				0.04836		mg/Kg		99	70 - 130	5	35
	< 0.00200								70 400		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1964		mg/Kg		98	70 <sub>-</sub> 130	8	35
m-Xylene & p-Xylene		U						98 119	70 <sub>-</sub> 130 70 <sub>-</sub> 130	8 11	35 35
m-Xylene & p-Xylene	<0.00400 <0.00200	U	0.200	0.1964		mg/Kg					
n-Xylene & p-Xylene o-Xylene	<0.00400 <0.00200 <i>MSD</i>	U U <b>MSD</b>	0.200	0.1964		mg/Kg					
m-Xylene & p-Xylene o-Xylene <b>Surrogate</b>	<0.00400 <0.00200 <i>MSD</i> %Recovery	U U <b>MSD</b>	0.200 0.0998	0.1964		mg/Kg					
-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	<0.00400 <0.00200 <i>MSD</i> %Recovery	U U MSD Qualifier	0.200 0.0998 Limits	0.1964		mg/Kg					
n-Xylene & p-Xylene o-Xylene Surrogate 1-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<0.00400 <0.00200 <b>MSD</b> %Recovery 132 87	U U MSD Qualifier	0.200 0.0998 <u>Limits</u> 70 - 130	0.1964		mg/Kg		119	70 - 130	11	35
-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-339	<0.00400 <0.00200 <b>MSD</b> %Recovery 132 87	U U MSD Qualifier	0.200 0.0998 <u>Limits</u> 70 - 130	0.1964		mg/Kg		119	70 - 130 Sample ID:	11 Method	35 Blank
Ethylbenzene m-Xylene & p-Xylene o-Xylene 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-339 Matrix: Solid Analysis Batch: 3387	<0.00400 <0.00200 <b>MSD</b> %Recovery 132 87	U U MSD Qualifier	0.200 0.0998 <u>Limits</u> 70 - 130	0.1964		mg/Kg		119	70 - 130 Sample ID: Prep 1	11	35 Blank tal/NA

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

0.00400

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

## D Prepared Analyzed Dil Fac 05/24/21 09:37 05/24/21 22:50 05/24/21 09:37 05/24/21 22:50 05/24/21 09:37 05/24/21 22:50 05/24/21 09:37 05/24/21 22:50 05/24/21 09:37 05/24/21 22:50 05/24/21 09:37 05/24/21 22:50 1 05/24/21 09:37 05/24/21 22:50

**Client Sample ID: Lab Control Sample** 

Limits	Prepared	Analyzed	Dil Fac
70 - 130	05/24/21 09:37	5/24/21 22:50	1
70 - 130	05/24/21 09:37 0	)5/24/21 22:50	1

#### Lab Sample ID: LCS 880-3390/1-A Matrix: Solid

#### Analysis Batch: 3387

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

Analysis Batch: 3387							Prep Batch: 3390
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08903		mg/Kg		89	70 - 130
Toluene	0.100	0.08744		mg/Kg		87	70 - 130

Result Qualifier

0.002237

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

<0.00400 U

%Recovery

MB MB

98

92

Qualifier

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

## Released to Imaging: 1/24/2023 12:30:40 PM

1

1

1

1

1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

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

Lab Sample ID: LCS 880-339 Matrix: Solid	0/1-A						Client	Sample	ID: Lab Co Prep 1	Sintion Sa	
Analysis Batch: 3387										p Batch	
Analysis Batch. 0007			Spike	LCS	LCS				%Rec.	p Daten	
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene			0.100	0.08653		mg/Kg		87	70 - 130		
n-Xylene & p-Xylene			0.200	0.1783		mg/Kg		89	70 - 130		
-Xylene			0.100	0.08970		mg/Kg		90	70 - 130		
, your			0.100	0.00010							
	LCS	LCS									
urrogate	%Recovery	Qualifier	Limits								
l-Bromofluorobenzene (Surr)	95		70 - 130								
,4-Difluorobenzene (Surr)	120		70 - 130								
ab Sample ID: LCSD 880-33	890/2-A					Clie	nt San		Lab Contro	l Sampl	
Aatrix: Solid	50/2-A					Olle	int Gan	ipie ib. i		Type: To	
Analysis Batch: 3387										p Batch	
analysis Daten. 0007			Spike	LCSD	LCSD				%Rec.	p Baten	RF
nalyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Benzene			0.100	0.08321		mg/Kg		83	70 - 130	7	
oluene			0.100	0.08729		mg/Kg		87	70 - 130 70 - 130	0	
thylbenzene			0.100	0.08469		mg/Kg		85	70 <u>-</u> 130	2	
1-Xylene & p-Xylene			0.200	0.1699		mg/Kg		85	70 - 130	5	
-Xylene			0.100	0.08503		mg/Kg		85	70 - 130 70 - 130	5	:
Xylene			0.100	0.00000		mg/rtg		00	10-100	0	
		LCSD									
-	%Recovery	Qualifier	Limits								
-Bromofluorobenzene (Surr)	90	Qualifier	70 - 130								
Bromofluorobenzene (Surr)		Qualifier									
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	90 111	Qualifier	70 - 130					Client S	Sample ID:	CS11-Si	urfac
I-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) _ab Sample ID: 890-716-21 N	90 111	Qualifier	70 - 130					Client S		CS11-Su Type: Tot	
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) _ab Sample ID: 890-716-21 N Matrix: Solid	90 111	Qualifier	70 - 130					Client S	Prep 1		tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) _ab Sample ID: 890-716-21 N Matrix: Solid	90 111 NS	<u>Qualifier</u> Sample	70 - 130	MS	MS			Client S	Prep 1	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387	90 111 AS Sample		70 - 130 70 - 130		MS Qualifier	Unit	D	Client S	Prep 1 Pre	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387	90 111 AS Sample	Sample	70 - 130 70 - 130 Spike	Result	Qualifier	- <mark>Unit</mark> mg/Kg	D		Prep 1 Pre %Rec.	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene	90 111 AS Sample Result	Sample Qualifier U F1	70 - 130 70 - 130 Spike Added	<b>Result</b> 0.05882	Qualifier F1		<u>D</u>	%Rec	Prep 1 Pre %Rec. Limits	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Analyte Benzene joluene	90 111 AS Sample Result <0.00198	Sample Qualifier U F1 U F1	70 - 130 70 - 130 <b>Spike</b> Added 0.0996	<b>Result</b> 0.05882	Qualifier F1	mg/Kg	<u>D</u>	%Rec 58	Prep 1 Pre %Rec. Limits 70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387 Analyte Benzene Foluene Ethylbenzene	90 111 AS Sample Result <0.00198 <0.00198	Sample Qualifier U F1 U F1 U F1	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996	<b>Result</b> 0.05882 0.03150	Qualifier F1 F1 F1	mg/Kg mg/Kg	<u> </u>	% <b>Rec</b> 58 32	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387 Analyte Jenzene Joluene Hylbenzene 1-Xylene & p-Xylene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198	Sample Qualifier U F1 U F1 U F1 U F1	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996	Result           0.05882           0.03150           0.04090	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 58 32 41	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.0996 0.199	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	<b>%Rec</b> 58 32 41 37	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene -Xylene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.0996 0.199 0.0996	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	<b>%Rec</b> 58 32 41 37	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene h-Xylene Surrogate	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	<b>%Rec</b> 58 32 41 37	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene -Xylene Surrogate -Bromofluorobenzene (Surr)	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	<b>%Rec</b> 58 32 41 37	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 malyte thylbenzene h-Xylene & p-Xylene -Xylene -Xylene -Xylene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	<b>%Rec</b> 58 32 41 37	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 malyte thylbenzene h-Xylene & p-Xylene -Xylene -Xylene -Xylene -Tromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery 100 126	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 58 32 41 37 57	Prep 1           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tot p Batch	tal/N : 339
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 malyte enzene bluene thylbenzene h-Xylene & p-Xylene -Xylene Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery 100 126	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 58 32 41 37 57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot p Batch	tal/N : 339
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene -Xylene Surrogate -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery 100 126	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result           0.05882           0.03150           0.04090           0.07466	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 58 32 41 37 57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	CS11-Su	tal/N : 339 
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 .analyte tenzene bluene thylbenzene h-Xylene & p-Xylene -Xylene Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00397 <0.00198 MS %Recovery 100 126	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result 0.05882 0.03150 0.04090 0.07466 0.05677	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 58 32 41 37 57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	CS11-Su Type: Tot	urfac tal/N : 339
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,ab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387 malyte lenzene oluene ithylbenzene -Xylene & p-Xylene -Xylene Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,4-Difluorobenzene (Surr) ab Sample ID: 890-716-21 M Matrix: Solid Analysis Batch: 3387	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100 126 ASD Sample	Sample Qualifier U F1 U F1 U F1 U F1 U F1 U F1 MS Qualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result 0.05882 0.03150 0.04090 0.07466 0.05677 MSD	<b>Qualifier</b> F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 58 32 41 37 57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 8 Sample ID: Prep 1 Pre	CS11-Su Type: Tot	urfac tal/N : 339
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 .analyte enzene oluene thylbenzene -Xylene & p-Xylene -Xylene -Xylene <i>surrogate</i> -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 .analyte	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100 126 ASD Sample	Sample Qualifier U F1 U F1 U F1 U F1 MS Qualifier Sample Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130	Result 0.05882 0.03150 0.04090 0.07466 0.05677 MSD	Qualifier F1 F1 F1 F1 F1 MSD Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 58 32 41 37 57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 190 70 - 190	CS11-Su p Batch	urfac tal/N : 339 urfac tal/N : 339 RF Lin
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene Soluene Strylene & p-Xylene -Xylene & p-Xylene -Xylene Berrogate -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100 126 ASD Sample Result	Sample Qualifier U F1 U F1 U F1 U F1 U F1 MS Qualifier U F1	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130	Result           0.05882           0.03150           0.04090           0.07466           0.05677	Qualifier F1 F1 F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 58 32 41 37 57 Client S	Prep 1 Pre %Rec. Limits 70 - 130 70 - 190 70 - 130 70 - 190 70 - 1	CS11-Su pBatch CS11-Su ype: Tot pBatch RPD	urfac tal/N : 339 tal/N : 339 RF Lin
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,ab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene -Xylene Surrogate -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Malyte Benzene Foluene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100 126 ASD Sample Result <0.00198	Sample Qualifier U F1 U F1 U F1 U F1 U F1 MS Qualifier U F1 U F1 U F1 U F1	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         D.199         0.0996         D.199         0.0996         Limits         70 - 130         70 - 130         Spike         Added         0.100	Result           0.05882           0.03150           0.04090           0.07466           0.05677	Qualifier F1 F1 F1 F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec         58         32         41         37         57	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 8 Sample ID: Prep 1 Pre %Rec. Limits 70 - 130	CS11-Su p Batch CS11-Su Type: Tot p Batch RPD 14	urfac tal/N : 339 urfac tal/N : 339 RF Lin : :
Surrogate I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene D-Xylene Surrogate I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) Lab Sample ID: 890-716-21 N Matrix: Solid Analysis Batch: 3387 Analyte Benzene Toluene Ethylbenzene Toluene	90 111 AS Sample Result <0.00198 <0.00198 <0.00198 <0.00198 MS %Recovery 100 126 ASD Sample Result <0.00198 <0.00198 <0.00198	Sample Qualifier U F1 U F1 U F1 U F1 U F1 MS Qualifier U F1 U F1 U F1 U F1 U F1	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         Limits         70 - 130         70 - 130         70 - 130         0.100         0.100	Result           0.05882           0.03150           0.04090           0.07466           0.05677             MSD           Result           0.05100           0.03242	Qualifier F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec           58           32           41           37           57   Client S           %Rec           50           32	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 8 Sample ID: Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	CS11-Su p Batch CS11-Su Type: Tot p Batch RPD 14 3	urfactal/N

Eurofins Xenco, Carlsbad

#### Released to Imaging: 1/24/2023 12:30:40 PM

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

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	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

## Lab Sample ID: MB 880-3392/5-A

#### Matrix: Solid

Analysis Batch: 3386

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/21 09:50	05/24/21 22:52	1

1,4-Difluorobenzene	(Surr)

#### Lab Sample ID: LCS 880-3392/1-A Matrix: Solid Analysis Batch: 3386

Analysis Batch: 3386							Prep	Batch: 3392
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08965		mg/Kg		90	70 - 130	
Toluene	0.100	0.09013		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.09712		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 <sub>-</sub> 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

## Lab Sample ID: LCSD 880-3392/2-A Matrix: Solid

#### Analysis Batch: 3386

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08341		mg/Kg		83	70 - 130	7	35
Toluene	0.100	0.08222		mg/Kg		82	70 - 130	9	35
Ethylbenzene	0.100	0.08434		mg/Kg		84	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130	16	35
o-Xylene	0.100	0.08849		mg/Kg		88	70 - 130	16	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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**Client Sample ID: Method Blank** 

05/24/21 22:52

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 3392

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

05/24/21 09:50

Prep Type: Total/NA

Prep Batch: 3392

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Lab Sample ID: 890-716-1 MS	
Matrix: Solid	

Analysis Batch: 3386									Prep E	Batch: 3392
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.100	0.04811	F1	mg/Kg		48	70 - 130	
Toluene	<0.00202	U F1	0.100	0.02738	F1	mg/Kg		27	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.03452	F1	mg/Kg		34	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.06084	F1	mg/Kg		30	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.04803	F1	mg/Kg		48	70 - 130	
	MS	MS								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

#### Lab Sample ID: 890-716-1 MSD Matrix: Solid Analysis Batch: 3386

#### MSD MSD Sample Sample Spike Result Qualifier Added Result Qualifier Analyte Unit Benzene <0.00202 U F1 F2 0.100 0.02878 F1 F2 mg/Kg Toluene <0.00202 UF1 0.100 0.02007 F1 mg/Kg Ethylbenzene <0.00202 UF1 0.100 0.02739 F1 mg/K 0.200 m-Xylene & p-Xylene <0.00403 UF1 0.04762 F1 mg/Kg 0.03778 F1 <0.00202 UF1 0.100 o-Xylene mg/Kg

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

#### Lab Sample ID: MB 880-3445/5-A Matrix: Solid Analysis Batch: 3448

#### MB MB Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 1 Toluene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 1 m-Xylene & p-Xylene <0.00400 U 0.00400 05/25/21 08:50 05/25/21 12:11 mg/Kg 1 o-Xylene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 1 Xylenes, Total <0.00400 U 0.00400 mg/Kg 05/25/21 08:50 05/25/21 12:11 1 Total BTEX <0.00400 U 0.00400 05/25/21 08:50 mg/Kg 05/25/21 12:11 1 MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 86 70 - 130 05/25/21 08:50 05/25/21 12:11 1 1,4-Difluorobenzene (Surr) 96 70 - 130 05/25/21 08:50 05/25/21 12:11 1

Lab Sample ID: LCS 880-3445/1-A					Client	Sample	D: Lab C	ontrol Sample
Matrix: Solid							Prep <sup>·</sup>	Type: Total/NA
Analysis Batch: 3448							Pre	p Batch: 3445
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	

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## **Client Sample ID: CS1-Surface** Prep Type: Total/NA

#### **Client Sample ID: CS1-Surface** Prep Type: Total/NA Prep Batch: 3392

			%Rec.		RPD	
	D	%Rec	Limits	RPD	Limit	
g		29	70 - 130	50	35	
g		20	70 - 130	31	35	
g		27	70 - 130	23	35	
g		24	70 - 130	24	35	
g		38	70 - 130	24	35	

#### **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 3445

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

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

Lab Sample ID: LCS 880-34 Matrix: Solid	45/1-A						Client	Sample	ID: Lab Co Bron T	ontrol Sa Type: To	
Analysis Batch: 3448										p Batch	
Allalysis Balcii. 3440			Spike	1.05	LCS				%Rec.	p Batch	. 344
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Toluene			0.100	0.1068		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1099		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.200	0.2327		mg/Kg		116	70 <u>-</u> 130		
o-Xylene			0.200	0.2327		mg/Kg		115	70 - 130 70 - 130		
, Aylene			0.100	0.1140		ing/itg		110	70 - 100		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								
Lab Sample ID: LCSD 880-3	3445/2-A					Clie	ent Sam	ple ID: I	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 3448										p Batch	
			Spike		LCSD		_	~ =	%Rec.		RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene			0.100	0.1022		mg/Kg		102	70 - 130	7	3
Toluene			0.100	0.09832		mg/Kg		98	70 - 130	8	3
Ethylbenzene			0.100	0.09878		mg/Kg		99	70 - 130	11	3
n-Xylene & p-Xylene			0.200	0.2082		mg/Kg		104	70 - 130	11	3
o-Xylene			0.100	0.1032		mg/Kg		103	70 - 130	10	3
	LCSD	LCSD									
Surrogate											
Sunogale	%Recovery	Qualifier	Limits								
	% <i>Recovery</i> 102	Qualifier	Limits 70 - 130								
4-Bromofluorobenzene (Surr)		Qualifier									
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	102 104	Quaimer	70 - 130								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A	102 104	Quaimer	70 - 130					Client	Sample ID		
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid	102 104	Quaimer	70 - 130					Client	Prep T	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A	102 104 -1-H MS		70 - 130 70 - 130					Client	Prep T Pre		tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448	102 104 -1-H MS Sample	Sample	70 - 130 70 - 130 Spike		MS				Prep T Pre %Rec.	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte	102 104 -1-H MS Sample Result	Sample Qualifier	70 - 130 70 - 130 Spike Added	Result	MS Qualifier	Unit	<u>D</u>	%Rec	Prep 1 Pre %Rec. Limits	Type: To	tal/N/
A-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene	102 104 1-H MS Sample <u>Result</u> <0.00200	Sample Qualifier U	70 - 130 70 - 130 <b>Spike</b> Added 0.0996	<b>Result</b> 0.1161		mg/Kg	D	%Rec 117	Prep 1 Pre %Rec. Limits 70 - 130	Type: To	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene	102 104 1-H MS Sample Result <0.00200 <0.00200	Sample Qualifier U U	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996	<b>Result</b> 0.1161 0.1115		mg/Kg mg/Kg	<u>D</u>	%Rec 117 112	Prep T Pre %Rec. Limits 70 - 130 70 - 130	Type: To	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene	102 104 Sample Result <0.00200 <0.00200 <0.00200	Sample Qualifier U U U	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.0996	Result           0.1161           0.1115           0.1102		mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 117 112 111	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 104 -1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00400	Sample Qualifier U U U U	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.0996 0.199	Result 0.1161 0.1115 0.1102 0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene	102 104 Sample Result <0.00200 <0.00200 <0.00200	Sample Qualifier U U U U	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.0996	Result           0.1161           0.1115           0.1102		mg/Kg mg/Kg mg/Kg	D	%Rec 117 112 111	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200	Sample Qualifier U U U U U	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.0996 0.199	Result 0.1161 0.1115 0.1102 0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene p-Xylene	102 104 -1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996	Result 0.1161 0.1115 0.1102 0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene p-Xylene Surrogate	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 U.199	Result 0.1161 0.1115 0.1102 0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	102 104 -1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS %Recovery	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996	Result 0.1161 0.1115 0.1102 0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS %Recovery 104	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	Result           0.1161           0.1115           0.1102           0.2310		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 117 112 111 116	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene p-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	102 104 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS %Recovery 104 107	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	Result           0.1161           0.1115           0.1102           0.2310		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 112 111 116 114	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: To p Batch	tal/N/ : 344
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 104 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS %Recovery 104 107	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	Result           0.1161           0.1115           0.1102           0.2310		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 112 111 116 114	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch	tal/N/
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene b-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid	102 104 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 MS %Recovery 104 107	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	Result           0.1161           0.1115           0.1102           0.2310		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 112 111 116 114	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch	blicat
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene b-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 104 107 1-I MSD	Sample Qualifier U U U U U U MS	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	Result           0.1161           0.1115           0.1102           0.2310           0.1133		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 112 111 116 114	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch  Dike Dup Type: To	blicati 1 344
A-Difluorobenzene (Surr) A,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene p-Xylene Surrogate A-Bromofluorobenzene (Surr) A,4-Difluorobenzene (Surr) A,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 104 107 1-I MSD Sample	Sample Qualifier U U U U U MS Qualifier	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996	Result           0.1161           0.1115           0.1102           0.2310           0.1133	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 112 111 116 114	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Pre	Type: To p Batch  Dike Dup Type: To	blicati tal/NJ : 344
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene p-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 104 107 1-I MSD Sample	Sample Qualifier U U U U MS Qualifier Sample Qualifier	70 - 130 70 - 130 <b>Spike</b> Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130	Result           0.1161           0.1115           0.1102           0.2310           0.1133	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	Client S	%Rec 117 112 111 116 114	Prep T Pre %Rec. Limits 70 - 130 70 - 190 70 - 1	Dike Dup patch	blicati 1344 14 14 17 17 17 17 17 17 17 17 17 17 17 17 17
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A	102 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 104 107 1-I MSD Sample Result	Sample Qualifier U U U U U MS Qualifier U	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.130 70 - 130 70 - 130 70 - 130 70 - 130	Result           0.1161           0.1115           0.1102           0.2310           0.1133	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg C	Client S	%Rec 117 112 111 116 114 ample ID	Prep T Pre %Rec. Limits 70 - 130 70 - 190 70 - 130 70 - 190 70 - 100 - 100 70 - 100	Dike Dup Dike Dup Dype: To Datch	tal/NJ : 344
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene p-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-2390-A Matrix: Solid Analysis Batch: 3448 Analyte Benzene	102 104 104 1-H MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 104 107 1-I MSD Sample Result <0.00200	Sample Qualifier U U U U U MS Qualifier U U	70 - 130         70 - 130         70 - 130         Spike         Added         0.0996         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         0.199         0.0996         Limits         70 - 130         70 - 130         Spike         Added         0.0998	Result           0.1161           0.1115           0.1102           0.2310           0.1133	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg C	Client S	%Rec 117 112 111 116 114 ample ID %Rec 84	Prep T Pre %Rec. Limits 70 - 130 70 - 130 Prep T Pre %Rec. Limits 70 - 130	Dike Dup Type: To Dike Dup Type: To p Batch 	blicati tal/N/ : 344

Eurofins Xenco, Carlsbad
Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Lab Sample ID: 880-2390-A-1-I MS Matrix: Solid	SD						(	Clie	nt Sa	ample ID:	: Matrix Sp	oike Dup Type: To	
Analysis Batch: 3448	0	0		0		MOD						p Batch	
Avelate	Sample		-	Spike		MSD	1114		-	0/ D	%Rec.		RPD
Analyte	Result		lifier	Added		Qualifier	Unit		<u>D</u>	<u>%Rec</u>	Limits	RPD	Limit
o-Xylene	<0.00200	U		0.0998	0.08300		mg/Kg			83	70 - 130	31	35
	MSD	MSE	)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	86			70_130									
1,4-Difluorobenzene (Surr)	100			70 - 130									
Lab Sample ID: MB 880-3457/5-A										Client Sa	ample ID: I	Method	Blank
Matrix: Solid												Type: To	
Analysis Batch: 3460												p Batch	
		мв	MB										
nalyte	R		Qualifier	RL	_	Unit		D	Р	repared	Analyz	ed	Dil Fac
enzene		0200		0.00200		mg/Kg		_		5/21 10:23	05/25/21		Dirta
bluene		0200		0.00200		mg/Kg				5/21 10:23	05/25/21 2		
thylbenzene		0200		0.00200		mg/Kg				5/21 10:23	05/25/21 2		
-Xylene & p-Xylene		0200		0.00200		mg/Kg				5/21 10:23	05/25/21 2		· · · · · .
Xylene		0200		0.00400		mg/Kg				5/21 10:23	05/25/21 2		
-													
ylenes, Total		0400		0.00400		mg/Kg				5/21 10:23	05/25/21		
otal BTEX	<0.0	0400		0.00400	)	mg/Kg			05/2	5/21 10:23	05/25/21	20:13	
urrogate	%Reco	MB		Limits					D	repared	Analyz	od	Dil Fa
Bromofluorobenzene (Surr)	////////	69		70 - 130	-					5/21 10:23	05/25/21		DIIFa
		79	31-	70 - 130 70 - 130						5/21 10:23	05/25/21		
4-Difluorobenzene (Surr)		79		70 - 130					03/2	5/21 10.25	00/20/21	20.13	
ab Sample ID: LCS 880-3457/1-A								С	lient	Sample	ID: Lab Co	ontrol S	ample
latrix: Solid											Prep T	Type: To	tal/N/
nalysis Batch: 3460											Pre	p Batch	: 345
				Spike	LCS	LCS					%Rec.		
nalyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
enzene				0.100	0.09732		mg/Kg			97	70 - 130		
bluene				0.100	0.09447		mg/Kg			94	70 - 130		
thylbenzene				0.100	0.08807		mg/Kg			88	70 - 130		
-Xylene & p-Xylene				0.200	0.1773		mg/Kg			89	70 - 130		
-Xylene				0.100	0.08905		mg/Kg			89	70 - 130		
	LCS	LCS	1										
urrogate	%Recovery	Qua	lifier	Limits									
-Bromofluorobenzene (Surr)	98	-		70 - 130									
,4-Difluorobenzene (Surr)	98			70 - 130									
ab Sample ID: LCSD 880-3457/2	A						Cli	ent	Sam	ple ID: L	ab Contro	I Sampl	le Duj
latrix: Solid											Prep T	Type: To	tal/N
analysis Batch: 3460												p Batch	
-				Spike	LCSD	LCSD					%Rec.	-	RPI
nalyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene				0.100	0.08744		mg/Kg			87	70 - 130	11	3
oluene				0.100	0.07677		mg/Kg			77	70 - 130	21	3
thylbenzene				0.100	0.07086		mg/Kg			71	70 - 130	22	3
				0.200	0.07000		ma/Ka			70	70 130	22	35

23

17

35

35

70

75

70 - 130

70 - 130

Job ID: 890-716-1

m-Xylene & p-Xylene

o-Xylene

0.1404

0.07541

mg/Kg

mg/Kg

0.200

0.100

5

7

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

#### Lab Sample ID: 890-715-A-11-E MS

#### Matrix: Solid

Analysis	Batch:	3460	

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.07000		mg/Kg		70	70 - 130	
Toluene	<0.00202	U F1	0.100	0.05818	F1	mg/Kg		58	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.05709	F1	mg/Kg		57	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1066	F1	mg/Kg		53	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.06050	F1	mg/Kg		60	70 - 130	
	MS	MS								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

#### Lab Sample ID: 890-715-A-11-F MSD Matrix: Solid Analysis Batch: 3460

Analysis Baten. 0400									110	p Duton	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.09873		mg/Kg		99	70 - 130	34	35
Toluene	<0.00202	U F1	0.0998	0.06591	F1	mg/Kg		66	70 - 130	12	35
Ethylbenzene	<0.00202	U F1	0.0998	0.07136		mg/Kg		72	70 - 130	22	35
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1340	F1	mg/Kg		67	70 - 130	23	35
o-Xylene	<0.00202	U F1	0.0998	0.07390		mg/Kg		74	70 - 130	20	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

#### Lab Sample ID: MB 880-3460/8 Matrix: Solid

#### Analysis Batch: 3460

	MD	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130		-		05/25/21 14:43	1
1,4-Difluorobenzene (Surr)	81		70 - 130				05/25/21 14:43	1

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**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA Prep Batch: 3457

#### Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 3457

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

– Lab Sample ID: MB 880-3429/1 Matrix: Solid	<b>-A</b>										Client Sa	imple ID: Me Prep Typ		
Analysis Batch: 3438														1: 3429
· · · · · · · · · · · · · · · · · · ·	1	мв	мв											
Analyte	Res	sult	Qualifier		RL		Unit		D	P	repared	Analyzed		Dil Fac
Gasoline Range Organics	<5	0.0	U	į	50.0		mg/k	(g	_	05/2	4/21 16:09	05/25/21 13:2	27	1
(GRO)-C6-C10														
Diesel Range Organics (Over	<5	0.0	U	!	50.0		mg/K	(g		05/2	4/21 16:09	05/25/21 13:2	27	1
C10-C28)	-5							·		05/0	4/04 40:00	05/05/04 40.0	7	4
Oll Range Organics (Over C28-C36)		0.0			50.0		mg/K				4/21 16:09	05/25/21 13:2		1
Total TPH	<5	0.0	U	;	50.0		mg/k	.g		05/2	4/21 16:09	05/25/21 13:2	27	1
	1	ΜВ	МВ											
Surrogate	%Recov	ery	Qualifier	Limits	S					P	repared	Analyzed		Dil Fac
1-Chlorooctane	1	101		70 - 13	30					05/2	4/21 16:09	05/25/21 13:	27	1
o-Terphenyl	1	107		70 - 13	30					05/2	4/21 16:09	05/25/21 13:2	27	1
_														
Lab Sample ID: LCS 880-3429/	2-A								С	lient	Sample	ID: Lab Cont		
Matrix: Solid												Prep Typ		
Analysis Batch: 3438													Batch	: 3429
				Spike		LCS				_	~ -	%Rec.		
Analyte				Added			Qualifier	Unit		<u>D</u>	<u>%Rec</u>	Limits		
Gasoline Range Organics				1000		831.1		mg/Kg			83	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over				1000		1099		mg/Kg			110	70 - 130		
C10-C28)												10 100		
	LCS I	LCS												
Surrogate	%Recovery	Qual	lifier	Limits										
1-Chlorooctane	110			70 - 130										
o-Terphenyl	107			70 - 130										
								0.11		•				
Lab Sample ID: LCSD 880-342	9/3-A							CII	ent	Sam	ipie ID: L	ab Control S		
Matrix: Solid												Prep Typ		
Analysis Batch: 3438				• "									satch	: 3429
A week de				Spike			LCSD	11 14		-	0/ <b>D</b>	%Rec.		RPD
Analyte				Added			Qualifier	Unit			%Rec		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10				1000		850.2		mg/Kg			85	70 - 130	2	20
Diesel Range Organics (Over				1000		1106		mg/Kg			111	70 - 130	1	20
C10-C28)								5 5						
			<b>D</b>											
Surrogata	LCSD L			l imita										
Surrogate 1-Chlorooctane	<u>%Recovery</u> 0	Qual		Limits 70 - 130										
o-Terphenyl	106			70 - 130 70 - 130										
	100			70 - 750										
	MS										Client S	Sample ID: M	atrix	Spike
Matrix: Solid												Prep Typ		-
Analysis Batch: 3438														: 3429
-	Sample S	Sam	ple	Spike		MS	MS					%Rec.		
Analyte	Result (		-	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.9 l	U		996		878.0		mg/Kg			85	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9 l	U		996		1186		mg/Kg			119	70 - 130		
C10-C28)														

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### .... (00) 10 Method: 8015B

Method: 8015B NM - Diese	I Range Or	gani	ics (DR	(GC)	(Conti	inue	∌d)							
Lab Sample ID: 890-715-A-1-E	MS									Client	Sample ID	: Matrix	Spike	
Matrix: Solid											Prep 7	Type: Tot	/tal/NA	
Analysis Batch: 3438											Pre	p Batch:	i <b>: 3429</b>	
	MS	MS												5
Surrogate	%Recovery	Qualit	fier	Limits										
1-Chlorooctane	105			70 - 130										
o-Terphenyl	94			70 - 130										7
Lab Sample ID: 890-715-A-1-F	MSD								Clie	nt Sample ID	: Matrix S	oike Dur	olicate	-4
Matrix: Solid												Type: Tot		9
Analysis Batch: 3438												p Batch:		
-	Sample	Samp	le	Spike	Ţ	MSD	MSD				%Rec.		RPD	đ
Analyte	Result	Qualif	fier	Added	Re	esult	Qualifier	Unit		D %Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U		996	8	874.8		mg/Kg		85	70 - 130	0	20	
Diesel Range Organics (Over	<49.9	U		996	,	1162		mg/Kg		117	70 - 130	2	20	
C10-C28)														
	MSD	MSD												
Surrogate	%Recovery	Qualif	fier	Limits										
1-Chlorooctane	103			70 - 130										
o-Terphenyl	93			70 - 130										1
 Lab Sample ID: MB 880-3444/1	I <b>-A</b>									Client S	ample ID:	Method	Blank	
Matrix: Solid											Prep 7	Type: Tot	tal/NA	
Analysis Batch: 3440											Pre	p Batch:	i <b>: 3444</b>	
		MB I	МВ											
Analyte			Qualifier		RL		Unit		D	Prepared	Analyz	∠ed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<	<50.0 1	U	_	50.0		mg/Kg	ł	·	05/25/21 08:49	05/25/21	23:09	1	
Diesel Range Organics (Over	<	<50.0 l	U		50.0		mg/Kg	J		05/25/21 08:49	05/25/21	23:09	1	
C10-C28)														
Oll Range Organics (Over C28-C36)		<50.0 l			50.0		mg/Kg			05/25/21 08:49			1	
Total TPH	<	<50.0 l	IJ		50.0		mg/Kg	1		05/25/21 08:49	05/25/21	23:09	1	
		MB I	МВ											
Surrogate	%Reco	very	Qualifier	Limi	ts					Prepared	Analyz	2ed	Dil Fac	
1-Chlorooctane		112		70 - 1	130					05/25/21 08:49	05/25/21	23:09	1	
o-Terphenyl		105		70 - 1	120					05/25/21 08:49	05/25/21	22.00	1	

#### Lab Sample ID: LCS 880-3444/2-A Matrix: Solid

#### Analysis Batch: 3440

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	853.2		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1022		mg/Kg		102	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	101		70 - 130

#### **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 3444

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

Lab Sample ID: LCSD 880-3444	/ <b>3-A</b>					Clie	ent S	Samp	le ID: L	ab Control		
Matrix: Solid										Prep Ty		
Analysis Batch: 3440										Prep	Batch	: 3444
			Spike	LCSD	LCSD					%Rec.		RPI
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Gasoline Range Organics			1000	890.1		mg/Kg			89	70 - 130	4	20
(GRO)-C6-C10												
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg			102	70 - 130	1	20
	LCSD	LCSD										
Surrogate	%Recovery		Limits									
1-Chlorooctane	119		70 - 130	-								
o-Terphenyl	100		70 - 130									
Lab Sample ID: 890-716-1 MS									Client S	Sample ID:	CS1-S	urface
Matrix: Solid										Prep Ty		
Analysis Batch: 3440											Batch	
	Sample	Sample	Spike	MS	MS					%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.9		996	755.9	quamor	_ mg/Kg			76	70 - 130		
(GRO)-C6-C10	-+0.0	0	000	100.0		mg/itg			70	10 - 100		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	925.4		mg/Kg			93	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	90	Quanner -	70 - 130	-								
o-Terphenyl	70		70 - 130 70 - 130									
	70		10-100									
Lab Sample ID: 890-716-1 MSD Matrix: Solid									Client S	Sample ID: Prep Ty		
Analysis Batch: 3440											Batch	
Analysis Baten. 0440	Sample	Sample	Spike	MSD	MSD					%Rec.	Daten	RPD
Analyte		Qualifier	Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Gasoline Range Organics	<49.9		996	840.4	Quanner	mg/Kg			84	70 - 130	11	2
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9		996	1038		mg/Kg			104	70 - 130	11	20
C10-C28)		0	330	1000		ing/itg			104	70 - 100		20
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
Surrogate	%Recovery 101	Qualifier	Limits 70 - 130									
	-	Qualifier										
1-Chlorooctane o-Terphenyl	101 80	Qualifier	70 - 130	-				C	lient Sa	ample ID: N	<b>Nethod</b>	Blan
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1-	101 80	Qualifier	70 - 130					c	lient Sa	ample ID: M Prep Ty		
1-Chlorooctane	101 80	Qualifier	70 - 130					C	lient Sa	Prep Ty		tal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid	101 80	Qualifier	70 - 130					C	lient Sa	Prep Ty	ype: To	tal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid Analysis Batch: 3442	101 80 A		70 - 130	RL	Unit		D		lient Sa	Prep Ty	ype: To b Batch	tal/NA : 3450
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid Analysis Batch: 3442 Analyte	101 80 A	MB MB	70 - 130	<b>RL</b> 50.0	<u>Unit</u> /wg/k			Pre		Prep Ty Prep	ype: To b Batch ed	tal/NA : 3450 Dil Fac
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics	101 80 A	MB MB esult Qualifier	70 - 130					Pre	pared	Prep Ty Prep Analyze	ype: To b Batch ed	tal/NA : 3450 Dil Fac
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	101 80 A R	MB MB esult Qualifier	70 - 130			(g		Pre 05/25/	pared	Prep Ty Prep Analyze	ype: To b Batch ad 3:09	tal/NA : 345( Dil Fac
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-3450/1- Matrix: Solid	101 80 A R	MB MB esult Qualifier 50.0 U	70 - 130	50.0	mg/k	(g (g		Pre 05/25/ 05/25/	<b>pared</b> 21 09:04	Prep Ty Prep Analyze	ype: To b Batch ed 23:09	tal/NA

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

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Lab Sample ID: MB 880-3450/1-A									Client Sa	ample ID: M		
Matrix: Solid										Prep T		
Analysis Batch: 3442										Prep	o Batch	1: 3450
		MB MB										
Surrogate	%Reco	very Qua	lifier	Limits				Р	repared	Analyze	ed	Dil Fac
1-Chlorooctane		102		70 - 130	-			05/2	5/21 09:04	05/25/21 2	23:09	1
o-Terphenyl		102		70 _ 130				05/2	5/21 09:04	05/25/21 2	23:09	1
Lab Sample ID: LCS 880-3450/2-/	4							Client	Sample	ID: Lab Co		
Matrix: Solid										Prep T		
Analysis Batch: 3442										-	o Batch	n: 3450
				Spike		LCS		_	~ <b>-</b>	%Rec.		
Analyte				Added		Qualifier	Unit	D	<u>%Rec</u>	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	889.8		mg/Kg		89	70 - 130		
Diesel Range Organics (Over				1000	951.3		mg/Kg		95	70 - 130		
C10-C28)												
	LCS	LCS										
Surrogate	%Recovery		,	imits								
1-Chlorooctane	103	Quanner		0 - 130								
o-Terphenyl	95			0 - 130								
e leipileilji												
	-A						Clie	ent Sam	iple ID: L	ab Control. Prep T		
Matrix: Solid	- <b>A</b>						Clie	ent Sam	iple ID: L	Prep T Prep		otal/NA n: 3450
Matrix: Solid Analysis Batch: 3442	- <b>A</b>			Spike		LCSD				Prep T Prep %Rec.	ype: To b Batch	otal/NA n: 3450 RPD
Lab Sample ID: LCSD 880-3450/3 Matrix: Solid Analysis Batch: 3442 Analyte	- <b>A</b>			Added	Result	LCSD Qualifier	Unit	ent Sam	%Rec	Prep Ty Prep %Rec. Limits	ype: To b Batch 	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics	- <b>A</b>			-						Prep T Prep %Rec.	ype: To b Batch	otal/NA n: 3450 RPD
Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10	- <b>A</b>			Added	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	- <b>A</b>			Added	Result		Unit		%Rec	Prep Ty Prep %Rec. Limits	ype: To b Batch 	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10				Added	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD			Added 1000 1000	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery		L	Added 1000 1000 <i>imits</i>	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery 106		<u>_L</u> 7	Added 1000 1000 imits 0 - 130	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery		<u>_L</u> 7	Added 1000 1000 <i>imits</i>	Result 830.7		- <mark>Unit</mark> mg/Kg			Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7	otal/NA n: 3450 RPD Limit
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery 106		<u>_L</u> 7	Added 1000 1000 imits 0 - 130	Result 830.7		- <mark>Unit</mark> mg/Kg		- % <b>Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 7 2	n: 3450 RPD Limit 20
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD %Recovery 106		<u>_L</u> 7	Added 1000 1000 imits 0 - 130	Result 830.7		- <mark>Unit</mark> mg/Kg		- % <b>Rec</b>	Prep Ty Prey %Rec. Limits 70 - 130 70 - 130	ype: To Batch RPD 7 2 CS11-S	tal/NA n: 3450 RPD Limit 20 20
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS	LCSD %Recovery 106		<u>_L</u> 7	Added 1000 1000 imits 0 - 130	Result 830.7		- <mark>Unit</mark> mg/Kg		- % <b>Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 7 2 CS11-S	Contal/NA n: 3450 RPD Limit 20 20 Surface Dtal/NA
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid	LCSD %Recovery 106 97		<u>_L</u> 7	Added 1000 1000 imits 0 - 130	<b>Result</b> 830.7 973.8		- <mark>Unit</mark> mg/Kg		- % <b>Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Surface
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid	LCSD %Recovery 106 97 Sample	Qualifier	L 7 7	Added 1000 1000 imits 0 - 130 0 - 130	Result 830.7 973.8 MS	Qualifier	- <mark>Unit</mark> mg/Kg		- % <b>Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Surface
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics	LCSD %Recovery 106 97 Sample	Qualifier Sample Qualifier	L 7 7	Added 1000 1000 imits 0 - 130 0 - 130 Spike	Result 830.7 973.8 MS	Qualifier	- <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec           83           97           Client Set	Prep T Prey %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Prep T Prey %Rec.	ype: To b Batch 7 2 CS11-S ype: To	Contal/NA n: 3450 RPD Limit 20 20 Surface Dtal/NA
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCSD %Recovery 106 97 Sample Result	Qualifier Sample Qualifier U	L 7 7	Added 1000 1000 <i>imits</i> 0 - 130 0 - 130 Spike Added	Result 830.7 973.8 973.8 MS Result	Qualifier	_ Unit mg/Kg mg/Kg	<u>D</u>	%Rec           83           97           Client Sa           %Rec	Prep Ty Prey %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Surface
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<i>LCSD</i> % <i>Recovery</i> 106 97 Sample Result <49.9	Qualifier Sample Qualifier U	L 7 7	Added 1000 1000 <i>imits</i> 0 - 130 0 - 130 9 - 130 Spike Added 996	Result           830.7           973.8           MS           Result           767.9	Qualifier	- <mark>Unit</mark> mg/Kg mg/Kg - <u>Unit</u> mg/Kg	<u>D</u>	%Rec	Prep Ty Prey %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep Ty Prey %Rec. Limits 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Contal/NA n: 3450 RPD Limit 20 20 Surface Dtal/NA
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD %Recovery 106 97 Sample Result <49.9 <49.9 MS	Qualifier Sample Qualifier U U	L 7 	Added	Result           830.7           973.8           MS           Result           767.9	Qualifier	- <mark>Unit</mark> mg/Kg mg/Kg - <u>Unit</u> mg/Kg	<u>D</u>	%Rec	Prep Ty Prey %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep Ty Prey %Rec. Limits 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Surface
Matrix: Solid Analysis Batch: 3442 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-716-21 MS Matrix: Solid Analysis Batch: 3442 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<i>LCSD</i> % <i>Recovery</i> 106 97 Sample Result <49.9	Qualifier Sample Qualifier U U	L	Added 1000 1000 <i>imits</i> 0 - 130 0 - 130 9 - 130 Spike Added 996	Result           830.7           973.8           MS           Result           767.9	Qualifier	- <mark>Unit</mark> mg/Kg mg/Kg - <u>Unit</u> mg/Kg	<u>D</u>	%Rec	Prep Ty Prey %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep Ty Prey %Rec. Limits 70 - 130	ype: To b Batch 7 2 CS11-S ype: To	Surface

#### QC S

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-21 MSD

Lab Sample ID: MB 880-3539/1-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 3502

Analysis Batch: 3442

Gasoline Range Organics

Diesel Range Organics (Over

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

Sample Sample

<49.9 U

<49.9 U

MSD MSD

86

%Recovery Qualifier

88

74

Result Qualifier

Sample	e Resul	ts							1
						Job	ID: 890-	716-1	2
) (GC) (	Continue	ed)							3
					Client S		CS11-Su ype: Tot p Batch	tal/NA	4
Spike	MSD	MSD		_		%Rec.		RPD	5
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
996	758.6		mg/Kg		74	70 - 130	1	20	6
996	935.2		mg/Kg		94	70 - 130	6	20	7

05/26/21 14:55

1

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# **Client Sample ID: Method Blank**

05/26/21 22:25

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Pre	p Type: Total/NA
F	Prep Batch: 3539

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Total TPH	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			05/26/21 14:55	05/26/21 22:25	1

70 - 130

Limits

70 - 130

70 - 130

# Lab Sample ID: LCS 880-3539/2-A

#### Matrix: Solid Analysis Batch: 3502

o-Terphenyl

Analysis Batch: 3502							Pre	p Batch: 3539
	Sp	ike LCS	S LCS				%Rec.	
Analyte	Ado	ed Resul	t Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	10	969.2	2	mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	10	00 1108	8	mg/Kg		111	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	87		70 - 130

#### Lab Sample ID: LCSD 880-3539/3-A Matrix: Solid Analysis Batch: 3502

Analysis Batch: 3502							Pre	p Batch:	3539
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	872.1		mg/Kg		87	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	996.4		mg/Kg		100	70 - 130	11	20
C10-C28)									

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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

Lab Sample ID: LCSD 880-3	539/3-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										уре: То	
Analysis Batch: 3502									Pre	p Batch	: 353
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	78		70 - 130								
Lab Sample ID: 880-2503-A	-21-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	ype: To	tal/N/
Analysis Batch: 3502									Pre	p Batch	: 353
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	789.6		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	63.5		996	846.9		mg/Kg		79	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	73		70 - 130								
Lab Sample ID: 880-2503-A	-21-C MSD					Cli	ient Sa	ample IC	): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	ype: To	tal/N/
Analysis Batch: 3502									Pre	p Batch	: 3539
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	798.7		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over	63.5		996	866.8		mg/Kg		81	70 - 130	2	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
	73		70 - 130								

Lab Sample ID: MB 880-3424/1-A Matrix: Solid Analysis Batch: 3485									Client S	ample ID: Metho Prep Type:	
	МВ	МВ									
Analyte F	Result	Qualifier		RL		Unit		D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00		mg/Kg				05/26/21 19:03	1
Lab Sample ID: LCS 880-3424/2-A Matrix: Solid Analysis Batch: 3485								Clier	nt Sample	ID: Lab Control Prep Type:	
Analysis Batch. 3405			Spike		LCS	LCS				%Rec.	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250		254.3		mg/Kg		102	90 - 110	

Job ID: 890-716-1

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Method: 300.0 - Anions, Ion Chromatography (Continued)

Matrix: Solid	•							-	Lab Contro Prep	Type: So	
Analysis Batch: 3485									-		
			Spike		LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	254.1		mg/Kg		102	90 - 110	0	20
Lab Sample ID: 890-716-1 MS								Client	Sample ID	: CS1-Si	urface
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 3485											
	-	Sample	Spike		MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	<5.04	U	252	262.1		mg/Kg		102	90 - 110		
Lab Sample ID: 890-716-1 MSD								Client	Sample ID	: CS1-Si	urface
Matrix: Solid										Type: So	
Analysis Batch: 3485											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<5.04	U	252	261.6		mg/Kg		102	90 - 110	0	20
Lab Sample ID: MB 880-3451/1-A								Client	Sample ID:	Method	Blank
Matrix: Solid								onent		Type: So	
Analysis Batch: 3486									op	1900.0	orabio
,		MB MB									
											Dil Fac
Analyte	R	esult Qualifier		RL	Unit		DF	Prepared	Analyz	ea	DIFac
Analyte Chloride		solt Qualifier		<b>RL</b> 5.00	Unit mg/K	g	<u>D</u>	repared	05/26/21		Dii Fac 1
Chloride						g		-	05/26/21	21:54	1
Chloride Lab Sample ID: LCS 880-3451/2-A						g		-	05/26/21	21:54	1 ample
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid						g		-	05/26/21	21:54	1 ample
Chloride Lab Sample ID: LCS 880-3451/2-A			 Spike	5.00		g		-	05/26/21	21:54	1 ample
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486			Spike	5.00 LCS	mg/K	g Unit		-	05/26/21 e ID: Lab Co Prep	21:54	1 ample
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid			-	5.00 LCS	LCS	-	Clien	t Sample	05/26/21 e ID: Lab Co Prep %Rec.	21:54	1 ample
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride			Added	5.00 LCS Result	LCS	Unit mg/Kg	Clien	t Sample <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110	21:54 ontrol Sa Type: So	1 ample oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/			Added	5.00 LCS Result	LCS	Unit mg/Kg	Clien	t Sample <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro	21:54 ontrol Sa Type: So 	1 ample oluble 
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid			Added	5.00 LCS Result	LCS	Unit mg/Kg	Clien	t Sample <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro	21:54 ontrol Sa Type: So	1 ample oluble 
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/			Added 250	5.00 LCS Result 256.5	LCS Qualifier	Unit mg/Kg	Clien	t Sample <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep	21:54 ontrol Sa Type: So 	1 ample oluble e Dup oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486			Added 250 Spike	5.00 LCS Result 256.5	LCS Qualifier	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID:	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	21:54 ontrol Sa Type: So ol Sampl Type: So	1 oluble e Dup oluble RPD
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte			Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Clien	t Sample <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits	21:54 ontrol Sa Type: So 	1 ample oluble e Dup oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486			Added 250 Spike	5.00 LCS Result 256.5	LCS Qualifier	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u>	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	21:54 ontrol Sa Type: So ol Sampl Type: So 	1 ample oluble e Dup oluble RPD Limit
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte			Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits	21:54 ontrol Sa Type: So ol Sampl Type: So RPD 0	1 oluble oluble oluble RPD Limit 20
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid			Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103	05/26/21         e ID: Lab Correst         %Rec.         Limits         90 - 110         Lab Controc         %Rec.         Limits         90 - 110         %Rec.         Limits         90 - 110         Sample ID	21:54 ontrol Sa Type: So ol Sampl Type: So RPD 0	1 ample oluble e Dup oluble RPD Limit 20 urface
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS		<5.00 U	Added 250 Spike Added 250	5.00 LCS Result 256.5 LCSD Result 256.7	LCS Qualifier Qualifier	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103	05/26/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-So	1 ample oluble e Dup oluble RPD Limit 20 urface
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486	Sample	<5.00 U	Added 250 Spike Added 250 Spike	5.00 LCS Result 256.5 LCSD Result 256.7	LCS Qualifier Qualifier MS	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-So	1 ample oluble e Dup oluble RPD Limit 20 urface
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486 Analyte	Sample	<5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result 256.7 MS Result	LCS Qualifier Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-So	1 ample oluble e Dup oluble RPD Limit 20 urface
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486	Sample	<5.00 U	Added 250 Spike Added 250 Spike	5.00 LCS Result 256.5 LCSD Result 256.7	LCS Qualifier Qualifier MS	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-So	1 ample oluble e Dup oluble RPD Limit 20 urface
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486 Analyte	Sample	<5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result 256.7 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client <u>%Rec</u> 100	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-Su Type: So	1 ample oluble oluble RPD Limit 20 urface oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486 Analyte Chloride Chloride	Sample	<5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result 256.7 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client <u>%Rec</u> 100	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID %Rec. Limits 90 - 110 Sample ID	21:54 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 : CS6-Su Type: So	1 ample oluble e Dup oluble <u>Limit</u> 20 urface oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS	Sample	<5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result 256.7 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client <u>%Rec</u> 100	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID %Rec. Limits 90 - 110 Sample ID	21:54 ontrol Sa Type: Sa ol Sampl Type: Sa <u>RPD</u> 0 : CS6-Su Type: Sa 	1 ample oluble e Dup oluble <u>Limit</u> 20 urface oluble
Chloride Lab Sample ID: LCS 880-3451/2-A Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: LCSD 880-3451/3-/ Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analysis Batch: 3486 Analyte Chloride Lab Sample ID: 890-716-11 MS Matrix: Solid Analyte Chloride Lab Sample ID: 890-716-11 MSD Matrix: Solid	Sample Result 15.2	<5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 256.5 LCSD Result 256.7 MS Result 262.4	LCS Qualifier Qualifier MS	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 103 nple ID: <u>%Rec</u> 103 Client <u>%Rec</u> 100	05/26/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID %Rec. Limits 90 - 110 Sample ID	21:54 ontrol Sa Type: Sa ol Sampl Type: Sa <u>RPD</u> 0 : CS6-Su Type: Sa 	1 ample oluble e Dup oluble <u>Limit</u> 20 urface oluble

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Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-716-21 MS Matrix: Solid								Client S	Sample ID: Prep	CS11-S Type: S	
Analysis Batch: 3486									Пер	Type. O	orubit
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	•	Qualifie			Qualifier	Unit	D	%Rec	Limits		
Chloride	<4.95		248			mg/Kg	<u> </u>	100	90 - 110		
	-4.00	0	240	200.0		mg/rtg		100	50 - 110		
Lab Sample ID: 890-716-21 MSD								Client S	Sample ID:	CS11-S	urfac
Matrix: Solid									Prep	Type: S	olubl
Analysis Batch: 3486											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride	<4.95	U	248	254.0		mg/Kg		101	90 _ 110	0	2
											_
Lab Sample ID: MB 880-3455/1-A								Client S	Sample ID: I		
Matrix: Solid									Prep	Type: S	olubl
Analysis Batch: 3533											
		MB ME					_				
Analyte		esult Qu	alifier	RL	Unit		D F	Prepared	Analyz		Dil Fa
Chloride	<	<5.00 U		5.00	mg/K	g			05/27/21 (	00:46	
Lab Sample ID: LCS 880-3455/2-A							Clien	t Sample	D: Lab Co	ontrol S	ampl
Matrix: Solid							onen	Coumpic		Type: S	
Analysis Batch: 3533									Пер	Type. O	olubi
Analysis Daten. 5555			Spike	LCS	LCS				%Rec.		
			•		Qualifier	Unit	D	%Rec	Limits		
Analyte											
Analyte			Added		Quaimer			103			
Analyte Chloride			Added 250		Quaimer	mg/Kg	<u> </u>		90 - 110		
Chloride					Quaimer	mg/Kg		103	90 - 110		le Du
Chloride Lab Sample ID: LCSD 880-3455/3-A	<u> </u>				Quaimer	mg/Kg		103	90 <sub>-</sub> 110 Lab Contro		
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid	<u> </u>				Quaimer	mg/Kg		103	90 <sub>-</sub> 110 Lab Contro	I Sampl Type: S	
Chloride Lab Sample ID: LCSD 880-3455/3-A			250	257.1	LCSD	mg/Kg		103	90 <sub>-</sub> 110 Lab Contro		olubl
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533	<u> </u>			257.1 LCSD	LCSD	mg/Kg		103	90 <sub>-</sub> 110 Lab Contro Prep		oluble RPI
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte			250 Spike	257.1 LCSD Result		mg/Kg Cli Unit	ent Sar	103 mple ID:	90 <sub>-</sub> 110 Lab Contro Prep ` %Rec.	Type: S	olubl RP
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533			250 Spike Added	257.1 LCSD Result	LCSD	mg/Kg Cli	ent Sar	103	90 - 110 Lab Contro Prep %Rec. Limits	Type: S	olubl RPI Limi
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte			250 Spike Added	257.1 LCSD Result	LCSD	mg/Kg Cli Unit	ent Sar	103 mple ID: 1 %Rec 103	90 - 110 Lab Contro Prep %Rec. Limits	Type: S	Olubi RPI Lim 2
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride			250 Spike Added	257.1 LCSD Result	LCSD	mg/Kg Cli Unit	ent Sar	103 mple ID: 1 %Rec 103	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: 0	Type: S <u>RPD</u> 0 CS16-S	olubi RPI Lim 2 urfac
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid			250 Spike Added	257.1 LCSD Result	LCSD	mg/Kg Cli Unit	ent Sar	103 mple ID: 1 %Rec 103	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: 0	Type: S	oluble RPI Limi 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS	Sample	Sample	250 Spike Added	257.1 LCSD Result 256.9	LCSD	mg/Kg Cli Unit	ent Sar	103 mple ID: 1 %Rec 103	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: 0	Type: S <u>RPD</u> 0 CS16-S	oluble RPI Limi 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid	Sample	Sample Qualifier	250 Spike Added 250 Spike	257.1 LCSD Result 256.9 MS	LCSD Qualifier	mg/Kg Cli Unit	ent Sar	103 mple ID: 1 %Rec 103	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: 0 Prep	Type: S <u>RPD</u> 0 CS16-S	oluble RPI Limi 20 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533	Sample	Qualifie	250 Spike Added 250 Spike	257.1 LCSD Result 256.9 MS Result	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: ( Prep %Rec.	Type: S <u>RPD</u> 0 CS16-S	oluble RPI Limi 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride	Sample Result	Qualifie	Spike Added 250 Spike Added	257.1 LCSD Result 256.9 MS Result	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102	90 - 110 Lab Contro Prep 7 %Rec. Limits 90 - 110 Sample ID: 0 Prep 7 %Rec. Limits 90 - 110	Type: S <u>RPD</u> 0 CS16-Si Type: S	olubl RPI Lim 2 urfact olubl
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD	Sample Result	Qualifie	Spike Added 250 Spike Added	257.1 LCSD Result 256.9 MS Result	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102	90 - 110  Lab Contro Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %	Type: S <u>RPD</u> 0 CS16-SI Type: S CS16-SI	olubl RPI Lim 2 urfact olubl urfact
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid	Sample Result	Qualifie	Spike Added 250 Spike Added	257.1 LCSD Result 256.9 MS Result	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102	90 - 110  Lab Contro Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %	Type: S <u>RPD</u> 0 CS16-Si Type: S	olubl RPI Lim 2 urfact olubl urfact
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD	Sample Result <4.96	Qualifier	Spike Added 250 Spike Added	257.1 LCSD Result 256.9 MS Result	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102	90 - 110  Lab Contro Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %	Type: S <u>RPD</u> 0 CS16-SI Type: S CS16-SI	oluble RPI Limi 2 urface oluble urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid	Sample Result <4.96 Sample	Qualifier U Sample	250 Spike Added 250 Spike 248 Spike	257.1 LCSD Result 256.9 MS Result 256.9	LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102	90 - 110  Lab Contro Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %Rec. Limits 90 - 110  Sample ID: %	Type: S <u>RPD</u> 0 CS16-SI Type: S CS16-SI	olubi RPI Lim 2 urface olubi
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Analysis Batch: 3533 Analyte	Sample Result <4.96 Sample Result	Qualifier U Sample Qualifier	Spike Added 250 Spike Added 248 Spike Added	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: ( Prep %Rec. Limits 90 - 110 Sample ID: ( Prep %Rec. Limits	Type: S RPD 0 CS16-Si Type: S CS16-Si Type: S RPD	oluble RPI Limi 2 urface oluble urface oluble RPI Limi
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533	Sample Result <4.96 Sample	Qualifier U Sample Qualifier	250 Spike Added 250 Spike 248 Spike	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID: 0 Prep %Rec. Limits 90 - 110 Sample ID: 0 Prep %Rec.	Type: S RPD 0 CS16-Si Type: S CS16-Si Type: S	olubi RPI Lim 2 urface olubi urface olubi
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Chloride Chlorid	Sample Result <4.96 Sample Result	Qualifier U Sample Qualifier	Spike Added 250 Spike Added 248 Spike Added	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec 102	90 - 110  Lab Contro Prep % Rec. Limits 90 - 110  Sample ID:  % Rec. Limits 90 - 110  Sample ID:  % Rec. Limits 90 - 110  Sample ID:  % Rec. Limits 90 - 110	RPD         0           CS16-Si         Type: S           CS16-Si         Type: S           CS16-Si         Type: S           CS16-Si         Type: S	olubi RPI Lim 2 urface olubi urface olubi RPI Lim 2
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-41 MS	Sample Result <4.96 Sample Result	Qualifier U Sample Qualifier	Spike Added 250 Spike Added 248 Spike Added	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec 102	90 - 110  Lab Contro Prep % Rec. Limits 90 - 110  Sample ID: %	Type: S RPD 0 CS16-SI Type: S CS16-SI Type: S RPD 0 CS21-SI	olubi RPI Lim 2 urface olubi urface olubi RPI Lim 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-41 MS Matrix: Solid	Sample Result <4.96 Sample Result	Qualifier U Sample Qualifier	Spike Added 250 Spike Added 248 Spike Added	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec 102	90 - 110  Lab Contro Prep % Rec. Limits 90 - 110  Sample ID: %	RPD         0           CS16-Si         Type: S           CS16-Si         Type: S           CS16-Si         Type: S           CS16-Si         Type: S	olubli RPI Limi 2 urface olubli olubli RPI Limi 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-41 MS	Sample Result <4.96 Sample Result <4.96	Qualifier U Sample Qualifier U	Spike Added 250 Spike Added 248 Spike Added 248	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result 256.9	LCSD Qualifier MS Qualifier MSD Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec 102	90 - 110  Lab Contro Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Prep %Rec. Limits 90 - 110  Sample ID: %Rec. Prep %Rec. Note:	Type: S RPD 0 CS16-Si Type: S CS16-Si Type: S RPD 0 CS21-Si	olubli RPI Limi 2 urface olubli olubli RPI Limi 2 urface
Chloride Lab Sample ID: LCSD 880-3455/3-A Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MS Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-31 MSD Matrix: Solid Analysis Batch: 3533 Analyte Chloride Lab Sample ID: 890-716-41 MS Matrix: Solid	Sample Result <4.96 Sample Result <4.96	Qualifier U Sample Qualifier	Spike Added 250 Spike Added 248 Spike Spike	257.1 LCSD Result 256.9 MS Result 256.9 MSD Result 256.9	LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg Unit	ent Sar D	103 mple ID: 1 %Rec 103 Client S %Rec 102 Client S %Rec 102	90 - 110  Lab Contro Prep % Rec. Limits 90 - 110  Sample ID: %	Type: S RPD 0 CS16-Si Type: S CS16-Si Type: S RPD 0 CS21-Si	oluble RPE Limi 20 urface oluble urface oluble RPE Limi 20 urface oluble RPE Limi 20 urface oluble urface oluble RPE urface oluble RPE urface oluble RPE urface oluble RPE urface oluble RPE urface oluble RPE Limi urface oluble RPE Limi urface oluble RPE Limi urface oluble RPE Limi urface oluble RPE Limi

Job ID: 890-716-1

110	U	%Rec	Limits	RPD	Limit	
g/Kg	_	103	90 - 110	0	20	
		Client S	Sample ID:	CS16-Si	urface	

S Datch: 3033										
	Sample	Sample	Spike	MS	MS				%Rec.	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	<4.96	U	248	256.9		mg/Kg		102	90 - 110	

	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	<4.96	U	248	256.9		mg/Kg		102	90 - 110	0	20
)-716-41 MS								Client	Sample ID:	CS21-S	urface

Sample	Sample	Spike	MS	MS				%Rec.	
 Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
18.4		250	272.7		mg/Kg		102	90 - 110	

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5/28/2021
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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

#### Method: 300.0 - Anions, Ion Chromatography

atrix: Solid nalysis Batch: 3533									iiep	Type: So	orubie	
ach to		Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD	
n <b>alyte</b>	18.4		250	272.6	Quaimer	_ Unit mg/Kg		102	90 - 110	0	Limit 20	
												Ē.
												2

Eurofins Xenco, Carlsbad

Prep Type

Prep Type

Prep Type

Total/NA

Matrix

Solid

Matrix

Solid

Matrix

Solid

Method

Method

Method

8021B

5035

5035

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

**Client Sample ID** 

**Client Sample ID** 

**Client Sample ID** 

CS1-Surface

CS2-Surface

CS3-Surface

CS4-Surface

CS5-Surface

CS6-Surface

CS1-1'

CS2-1'

CS3-1'

CS4-1'

CS5-1'

Method Blank

Method Blank

**GC VOA** 

Prep Batch: 3334 Lab Sample ID

MB 880-3334/5-A

Prep Batch: 3385 Lab Sample ID

MB 880-3385/5-A

Lab Sample ID

890-716-1

890-716-2

890-716-3

890-716-4

890-716-5

890-716-6

890-716-7

890-716-8 890-716-9

890-716-10

890-716-11

Analysis Batch: 3386

Prep Batch

Prep Batch

Prep Batch

3392

3392

3392

3392

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3392

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3392

Job ID: 890-716-1

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# 8

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5

890-716-12	CS6-1'	Total/NA	Solid	8021B
890-716-13	CS7-Surface	Total/NA	Solid	8021B
890-716-14	CS7-1'	Total/NA	Solid	8021B
890-716-15	CS8-Surface	Total/NA	Solid	8021B
890-716-16	CS8-1'	Total/NA	Solid	8021B
890-716-17	CS9-urface	Total/NA	Solid	8021B
890-716-18	CS9-1'	Total/NA	Solid	8021B
890-716-19	CS10-Surface	Total/NA	Solid	8021B
890-716-20	CS10-1'	Total/NA	Solid	8021B
VIB 880-3334/5-A	Method Blank	Total/NA	Solid	8021B
MB 880-3392/5-A	Method Blank	Total/NA	Solid	8021B
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	8021B
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B
890-716-1 MS	CS1-Surface	Total/NA	Solid	8021B
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8021B

#### Analysis Batch: 3387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8021B	3390
890-716-22	CS11-1'	Total/NA	Solid	8021B	3390
890-716-23	CS12-Surface	Total/NA	Solid	8021B	3390
890-716-24	CS12-1'	Total/NA	Solid	8021B	3390
890-716-25	CS13-Surface	Total/NA	Solid	8021B	3390
890-716-26	CS13-1'	Total/NA	Solid	8021B	3390
890-716-27	CS14-Surface	Total/NA	Solid	8021B	3390
890-716-28	CS14-1'	Total/NA	Solid	8021B	3390
890-716-29	CS15-Surface	Total/NA	Solid	8021B	3390
890-716-30	CS15-1'	Total/NA	Solid	8021B	3390
MB 880-3385/5-A	Method Blank	Total/NA	Solid	8021B	3385
MB 880-3390/5-A	Method Blank	Total/NA	Solid	8021B	3390
LCS 880-3390/1-A	Lab Control Sample	Total/NA	Solid	8021B	3390
LCSD 880-3390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3390

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### GC VOA (Continued)

#### Analysis Batch: 3387 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-21 MS	CS11-Surface	Total/NA	Solid	8021B	3390
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8021B	3390

#### Analysis Batch: 3388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-716-41	CS21-Surface	Total/NA	Solid	8021B	3389	
890-716-42	CS21-1'	Total/NA	Solid	8021B	3389	_
390-716-43	CS22-Surface	Total/NA	Solid	8021B	3389	8
390-716-44	CS22-1'	Total/NA	Solid	8021B	3389	
890-716-45	CS23-Surface	Total/NA	Solid	8021B	3389	g
890-716-46	CS23-1'	Total/NA	Solid	8021B	3389	
MB 880-3388/8	Method Blank	Total/NA	Solid	8021B		
MB 880-3389/5-A	Method Blank	Total/NA	Solid	8021B	3389	
LCS 880-3389/1-A	Lab Control Sample	Total/NA	Solid	8021B	3389	
_CSD 880-3389/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3389	
320-756-A-11-G MS	Matrix Spike	Total/NA	Solid	8021B	3389	
820-756-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3389	

#### Prep Batch: 3389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	5035	
890-716-42	CS21-1'	Total/NA	Solid	5035	
890-716-43	CS22-Surface	Total/NA	Solid	5035	
890-716-44	CS22-1'	Total/NA	Solid	5035	
890-716-45	CS23-Surface	Total/NA	Solid	5035	
890-716-46	CS23-1'	Total/NA	Solid	5035	
MB 880-3389/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3389/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3389/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-756-A-11-G MS	Matrix Spike	Total/NA	Solid	5035	
820-756-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 3390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	5035	
890-716-22	CS11-1'	Total/NA	Solid	5035	
890-716-23	CS12-Surface	Total/NA	Solid	5035	
890-716-24	CS12-1'	Total/NA	Solid	5035	
890-716-25	CS13-Surface	Total/NA	Solid	5035	
890-716-26	CS13-1'	Total/NA	Solid	5035	
890-716-27	CS14-Surface	Total/NA	Solid	5035	
890-716-28	CS14-1'	Total/NA	Solid	5035	
890-716-29	CS15-Surface	Total/NA	Solid	5035	
890-716-30	CS15-1'	Total/NA	Solid	5035	
MB 880-3390/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3390/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3390/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-716-21 MS	CS11-Surface	Total/NA	Solid	5035	
890-716-21 MSD	CS11-Surface	Total/NA	Solid	5035	

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### Prep Batch: 3392

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Total/NA	Solid	5035	
890-716-2	CS1-1'	Total/NA	Solid	5035	5
890-716-3	CS2-Surface	Total/NA	Solid	5035	
890-716-4	CS2-1'	Total/NA	Solid	5035	
890-716-5	CS3-Surface	Total/NA	Solid	5035	
890-716-6	CS3-1'	Total/NA	Solid	5035	
890-716-7	CS4-Surface	Total/NA	Solid	5035	
890-716-8	CS4-1'	Total/NA	Solid	5035	8
890-716-9	CS5-Surface	Total/NA	Solid	5035	_
890-716-10	CS5-1'	Total/NA	Solid	5035	9
890-716-11	CS6-Surface	Total/NA	Solid	5035	
890-716-12	CS6-1'	Total/NA	Solid	5035	
890-716-13	CS7-Surface	Total/NA	Solid	5035	
890-716-14	CS7-1'	Total/NA	Solid	5035	
890-716-15	CS8-Surface	Total/NA	Solid	5035	
890-716-16	CS8-1'	Total/NA	Solid	5035	
890-716-17	CS9-urface	Total/NA	Solid	5035	
890-716-18	CS9-1'	Total/NA	Solid	5035	1
890-716-19	CS10-Surface	Total/NA	Solid	5035	13
890-716-20	CS10-1'	Total/NA	Solid	5035	
MB 880-3392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-716-1 MS	CS1-Surface	Total/NA	Solid	5035	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	5035	

#### Prep Batch: 3445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Total/NA	Solid	5035	
890-716-32	CS16-1'	Total/NA	Solid	5035	
890-716-33	CS17-Surface	Total/NA	Solid	5035	
890-716-34	CS17-1'	Total/NA	Solid	5035	
890-716-35	CS18-Surface	Total/NA	Solid	5035	
890-716-36	CS18-1'	Total/NA	Solid	5035	
890-716-37	CS19-Surface	Total/NA	Solid	5035	
890-716-38	CS19-1'	Total/NA	Solid	5035	
890-716-39	CS20-Surface	Total/NA	Solid	5035	
890-716-40	CS20-1'	Total/NA	Solid	5035	
MB 880-3445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2390-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-2390-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 3448

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Total/NA	Solid	8021B	3445
890-716-32	CS16-1'	Total/NA	Solid	8021B	3445
890-716-33	CS17-Surface	Total/NA	Solid	8021B	3445
890-716-34	CS17-1'	Total/NA	Solid	8021B	3445
890-716-35	CS18-Surface	Total/NA	Solid	8021B	3445

#### Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### GC VOA (Continued)

#### Analysis Batch: 3448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-36	CS18-1'	Total/NA	Solid	8021B	3445
890-716-37	CS19-Surface	Total/NA	Solid	8021B	3445
890-716-38	CS19-1'	Total/NA	Solid	8021B	3445
890-716-39	CS20-Surface	Total/NA	Solid	8021B	3445
890-716-40	CS20-1'	Total/NA	Solid	8021B	3445
MB 880-3445/5-A	Method Blank	Total/NA	Solid	8021B	3445
LCS 880-3445/1-A	Lab Control Sample	Total/NA	Solid	8021B	3445
LCSD 880-3445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3445
880-2390-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	3445
880-2390-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3445

#### Prep Batch: 3457

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	5035	
890-716-42	CS21-1'	Total/NA	Solid	5035	
890-716-43	CS22-Surface	Total/NA	Solid	5035	
890-716-44	CS22-1'	Total/NA	Solid	5035	
890-716-45	CS23-Surface	Total/NA	Solid	5035	
890-716-46	CS23-1'	Total/NA	Solid	5035	
MB 880-3457/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3457/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3457/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-715-A-11-E MS	Matrix Spike	Total/NA	Solid	5035	
890-715-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 3460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8021B	3457
890-716-42	CS21-1'	Total/NA	Solid	8021B	3457
890-716-43	CS22-Surface	Total/NA	Solid	8021B	3457
890-716-44	CS22-1'	Total/NA	Solid	8021B	3457
890-716-45	CS23-Surface	Total/NA	Solid	8021B	3457
890-716-46	CS23-1'	Total/NA	Solid	8021B	3457
MB 880-3457/5-A	Method Blank	Total/NA	Solid	8021B	3457
MB 880-3460/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-3457/1-A	Lab Control Sample	Total/NA	Solid	8021B	3457
LCSD 880-3457/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3457
890-715-A-11-E MS	Matrix Spike	Total/NA	Solid	8021B	3457
890-715-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3457

#### GC Semi VOA

#### Prep Batch: 3429

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8015NM Prep	
890-716-42	CS21-1'	Total/NA	Solid	8015NM Prep	
890-716-43	CS22-Surface	Total/NA	Solid	8015NM Prep	
890-716-44	CS22-1'	Total/NA	Solid	8015NM Prep	
890-716-45	CS23-Surface	Total/NA	Solid	8015NM Prep	
890-716-46	CS23-1'	Total/NA	Solid	8015NM Prep	
MB 880-3429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

#### Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### GC Semi VOA (Continued)

#### Prep Batch: 3429 (Continued)

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
.CS 880-3429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
CSD 880-3429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
90-715-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
90-715-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
alysis Batch: 3438					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
90-716-41	CS21-Surface	Total/NA	Solid	8015B NM	342
90-716-42	CS21-1'	Total/NA	Solid	8015B NM	342
90-716-43	CS22-Surface	Total/NA	Solid	8015B NM	342
90-716-44	CS22-1'	Total/NA	Solid	8015B NM	34
90-716-45	CS23-Surface	Total/NA	Solid	8015B NM	342
90-716-46	CS23-1'	Total/NA	Solid	8015B NM	34
IB 880-3429/1-A	Method Blank	Total/NA	Solid	8015B NM	34
CS 880-3429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34
CSD 880-3429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34
90-715-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	34
90-715-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34
•	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
nalysis Batch: 3440	Client Comple ID	Deep Ture	Maderice	Mashaad	Dren Det
ab Sample ID	Client Sample ID CS1-Surface	Prep Type Total/NA	Matrix Solid	Method 8015B NM	
ab Sample ID 90-716-1					34
ab Sample ID 90-716-1 90-716-2	CS1-Surface	Total/NA	Solid	8015B NM	34
ab Sample ID 90-716-1 90-716-2 90-716-3	CS1-Surface CS1-1'	Total/NA Total/NA	Solid Solid	8015B NM 8015B NM	34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4	CS1-Surface CS1-1' CS2-Surface	Total/NA Total/NA Total/NA	Solid Solid Solid	8015B NM 8015B NM 8015B NM	34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5	CS1-Surface CS1-1' CS2-Surface CS2-1'	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1'	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-3 90-716-5 90-716-5 90-716-6 90-716-7 90-716-8	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-8 90-716-9	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1'	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34 34 34 34
alysis Batch: 3440           ab Sample ID           90-716-1           90-716-2           90-716-3           90-716-4           90-716-5           90-716-6           90-716-7           90-716-8           90-716-9           90-716-10           90-716-11	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-8 90-716-9 90-716-9	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1'	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-7 90-716-8 90-716-9 90-716-10 90-716-11 90-716-11	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS5-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-6 90-716-7 90-716-8 90-716-8 90-716-9 90-716-10 90-716-11 90-716-12 90-716-13	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1'	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-6 90-716-7 90-716-8 90-716-8 90-716-9 90-716-10 90-716-11 90-716-12 90-716-13 90-716-14	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34 3
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-6 90-716-7 90-716-8 90-716-8 90-716-9 90-716-10 90-716-11 90-716-12 90-716-13 90-716-14 90-716-15	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface CS7-1'	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-3 90-716-5 90-716-6 90-716-6 90-716-7 90-716-8 90-716-8 90-716-8 90-716-10 90-716-11 90-716-12 90-716-13 90-716-14 90-716-15 90-716-16	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface CS7-1' CS8-Surface	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34 3
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-7 90-716-8 90-716-8 90-716-10 90-716-10 90-716-11 90-716-12 90-716-13 90-716-15 90-716-15 90-716-16 90-716-17	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface CS7-1' CS8-Surface CS7-1'	Total/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34 3
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-7 90-716-8 90-716-8 90-716-10 90-716-10 90-716-11 90-716-12 90-716-13 90-716-15 90-716-15 90-716-17 90-716-17	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface CS7-1' CS8-Surface CS7-1' CS8-Surface CS8-1' CS8-Surface	Total/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	34 34 34 34 34 34 34 34 34 34 34 34 34 3
ab Sample ID 90-716-1 90-716-2 90-716-3 90-716-4 90-716-5 90-716-6 90-716-7 90-716-8 90-716-8 90-716-9 90-716-10 90-716-11	CS1-Surface CS1-1' CS2-Surface CS2-1' CS3-Surface CS3-1' CS4-Surface CS4-1' CS5-Surface CS5-1' CS6-Surface CS6-1' CS7-Surface CS7-1' CS8-Surface CS7-1' CS8-Surface CS8-1' CS9-urface CS9-1'	Total/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NATotal/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM	Prep Batt 344 344 344 344 344 344 344 344 344 3

Job ID: 890-716-1

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## 5/28/2021

Eurofins Xenco, Carlsbad

Prep Batch

3444

3444

3444

3444

3450

3450

#### Released to Imaging: 1/24/2023 12:30:40 PM

LCS 880-3444/2-A

890-716-1 MS

890-716-1 MSD

Lab Sample ID

890-716-21

890-716-22

LCSD 880-3444/3-A

Analysis Batch: 3442

CS1-Surface

CS1-Surface

**Client Sample ID** 

CS11-Surface

CS11-1'

Lab Control Sample

Lab Control Sample Dup

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

8015B NM

8015B NM

8015B NM

8015B NM

Method

8015B NM

8015B NM

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### GC Semi VOA (Continued)

#### Analysis Batch: 3442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-23	CS12-Surface	Total/NA	Solid	8015B NM	3450
890-716-24	CS12-1'	Total/NA	Solid	8015B NM	3450
890-716-25	CS13-Surface	Total/NA	Solid	8015B NM	3450
890-716-26	CS13-1'	Total/NA	Solid	8015B NM	3450
890-716-27	CS14-Surface	Total/NA	Solid	8015B NM	3450
890-716-28	CS14-1'	Total/NA	Solid	8015B NM	3450
890-716-29	CS15-Surface	Total/NA	Solid	8015B NM	3450
890-716-30	CS15-1'	Total/NA	Solid	8015B NM	3450
890-716-31	CS16-Surface	Total/NA	Solid	8015B NM	3450
890-716-33	CS17-Surface	Total/NA	Solid	8015B NM	3450
890-716-34	CS17-1'	Total/NA	Solid	8015B NM	3450
890-716-35	CS18-Surface	Total/NA	Solid	8015B NM	3450 🧹
890-716-36	CS18-1'	Total/NA	Solid	8015B NM	3450
890-716-37	CS19-Surface	Total/NA	Solid	8015B NM	3450
890-716-38	CS19-1'	Total/NA	Solid	8015B NM	3450
890-716-39	CS20-Surface	Total/NA	Solid	8015B NM	3450
890-716-40	CS20-1'	Total/NA	Solid	8015B NM	3450
MB 880-3450/1-A	Method Blank	Total/NA	Solid	8015B NM	3450
LCS 880-3450/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3450
LCSD 880-3450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3450
890-716-21 MS	CS11-Surface	Total/NA	Solid	8015B NM	3450
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8015B NM	3450

#### Prep Batch: 3444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Total/NA	Solid	8015NM Prep	
890-716-2	CS1-1'	Total/NA	Solid	8015NM Prep	
890-716-3	CS2-Surface	Total/NA	Solid	8015NM Prep	
890-716-4	CS2-1'	Total/NA	Solid	8015NM Prep	
890-716-5	CS3-Surface	Total/NA	Solid	8015NM Prep	
890-716-6	CS3-1'	Total/NA	Solid	8015NM Prep	
890-716-7	CS4-Surface	Total/NA	Solid	8015NM Prep	
890-716-8	CS4-1'	Total/NA	Solid	8015NM Prep	
890-716-9	CS5-Surface	Total/NA	Solid	8015NM Prep	
890-716-10	CS5-1'	Total/NA	Solid	8015NM Prep	
890-716-11	CS6-Surface	Total/NA	Solid	8015NM Prep	
890-716-12	CS6-1'	Total/NA	Solid	8015NM Prep	
890-716-13	CS7-Surface	Total/NA	Solid	8015NM Prep	
890-716-14	CS7-1'	Total/NA	Solid	8015NM Prep	
890-716-15	CS8-Surface	Total/NA	Solid	8015NM Prep	
890-716-16	CS8-1'	Total/NA	Solid	8015NM Prep	
890-716-17	CS9-urface	Total/NA	Solid	8015NM Prep	
890-716-18	CS9-1'	Total/NA	Solid	8015NM Prep	
890-716-19	CS10-Surface	Total/NA	Solid	8015NM Prep	
890-716-20	CS10-1'	Total/NA	Solid	8015NM Prep	
MB 880-3444/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3444/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3444/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-716-1 MS	CS1-Surface	Total/NA	Solid	8015NM Prep	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8015NM Prep	

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Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### GC Semi VOA

#### Prep Batch: 3450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8015NM Prep	
890-716-22	CS11-1'	Total/NA	Solid	8015NM Prep	5
890-716-23	CS12-Surface	Total/NA	Solid	8015NM Prep	
890-716-24	CS12-1'	Total/NA	Solid	8015NM Prep	
890-716-25	CS13-Surface	Total/NA	Solid	8015NM Prep	
890-716-26	CS13-1'	Total/NA	Solid	8015NM Prep	
890-716-27	CS14-Surface	Total/NA	Solid	8015NM Prep	
890-716-28	CS14-1'	Total/NA	Solid	8015NM Prep	8
890-716-29	CS15-Surface	Total/NA	Solid	8015NM Prep	_
890-716-30	CS15-1'	Total/NA	Solid	8015NM Prep	9
890-716-31	CS16-Surface	Total/NA	Solid	8015NM Prep	
890-716-33	CS17-Surface	Total/NA	Solid	8015NM Prep	
890-716-34	CS17-1'	Total/NA	Solid	8015NM Prep	
890-716-35	CS18-Surface	Total/NA	Solid	8015NM Prep	
890-716-36	CS18-1'	Total/NA	Solid	8015NM Prep	
890-716-37	CS19-Surface	Total/NA	Solid	8015NM Prep	
890-716-38	CS19-1'	Total/NA	Solid	8015NM Prep	
890-716-39	CS20-Surface	Total/NA	Solid	8015NM Prep	4.9
890-716-40	CS20-1'	Total/NA	Solid	8015NM Prep	13
MB 880-3450/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3450/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-716-21 MS	CS11-Surface	Total/NA	Solid	8015NM Prep	
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 3502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-32	CS16-1'	Total/NA	Solid	8015B NM	3539
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015B NM	3539
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3539
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3539
880-2503-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	3539
880-2503-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	3539

#### Prep Batch: 3539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-32	CS16-1'	Total/NA	Solid	8015NM Prep	
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2503-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-2503-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### HPLC/IC

#### Leach Batch: 3424

Lab Sample ID 890-716-1	Client Sample ID CS1-Surface	Prep Type Soluble	Matrix Solid	Method Prep Batch
890-716-2	CS1-1'	Soluble	Solid	DI Leach
890-716-3	CS2-Surface	Soluble	Solid	DI Leach
890-716-4	CS2-1'	Soluble	Solid	DI Leach

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### HPLC/IC (Continued)

#### Leach Batch: 3424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-5	CS3-Surface	Soluble	Solid	DI Leach	
890-716-6	CS3-1'	Soluble	Solid	DI Leach	
890-716-7	CS4-Surface	Soluble	Solid	DI Leach	
890-716-8	CS4-1'	Soluble	Solid	DI Leach	
890-716-9	CS5-Surface	Soluble	Solid	DI Leach	
890-716-10	CS5-1'	Soluble	Solid	DI Leach	
MB 880-3424/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3424/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3424/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-1 MS	CS1-Surface	Soluble	Solid	DI Leach	
890-716-1 MSD	CS1-Surface	Soluble	Solid	DI Leach	

#### Leach Batch: 3451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-11	CS6-Surface	Soluble	Solid	DI Leach	
890-716-12	CS6-1'	Soluble	Solid	DI Leach	
890-716-13	CS7-Surface	Soluble	Solid	DI Leach	
890-716-14	CS7-1'	Soluble	Solid	DI Leach	
890-716-15	CS8-Surface	Soluble	Solid	DI Leach	
890-716-16	CS8-1'	Soluble	Solid	DI Leach	
890-716-17	CS9-urface	Soluble	Solid	DI Leach	
890-716-18	CS9-1'	Soluble	Solid	DI Leach	
890-716-19	CS10-Surface	Soluble	Solid	DI Leach	
890-716-20	CS10-1'	Soluble	Solid	DI Leach	
890-716-21	CS11-Surface	Soluble	Solid	DI Leach	
890-716-22	CS11-1'	Soluble	Solid	DI Leach	
890-716-23	CS12-Surface	Soluble	Solid	DI Leach	
890-716-24	CS12-1'	Soluble	Solid	DI Leach	
890-716-25	CS13-Surface	Soluble	Solid	DI Leach	
890-716-26	CS13-1'	Soluble	Solid	DI Leach	
890-716-27	CS14-Surface	Soluble	Solid	DI Leach	
890-716-28	CS14-1'	Soluble	Solid	DI Leach	
890-716-29	CS15-Surface	Soluble	Solid	DI Leach	
890-716-30	CS15-1'	Soluble	Solid	DI Leach	
MB 880-3451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-11 MS	CS6-Surface	Soluble	Solid	DI Leach	
890-716-11 MSD	CS6-Surface	Soluble	Solid	DI Leach	
890-716-21 MS	CS11-Surface	Soluble	Solid	DI Leach	
890-716-21 MSD	CS11-Surface	Soluble	Solid	DI Leach	

#### Leach Batch: 3455

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Soluble	Solid	DI Leach	
890-716-32	CS16-1'	Soluble	Solid	DI Leach	
890-716-33	CS17-Surface	Soluble	Solid	DI Leach	
890-716-34	CS17-1'	Soluble	Solid	DI Leach	
890-716-35	CS18-Surface	Soluble	Solid	DI Leach	
890-716-36	CS18-1'	Soluble	Solid	DI Leach	
890-716-37	CS19-Surface	Soluble	Solid	DI Leach	

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### HPLC/IC (Continued)

#### Leach Batch: 3455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-38	CS19-1'	Soluble	Solid	DI Leach	
890-716-39	CS20-Surface	Soluble	Solid	DI Leach	5
890-716-40	CS20-1'	Soluble	Solid	DI Leach	
890-716-41	CS21-Surface	Soluble	Solid	DI Leach	
890-716-42	CS21-1'	Soluble	Solid	DI Leach	
890-716-43	CS22-Surface	Soluble	Solid	DI Leach	
890-716-44	CS22-1'	Soluble	Solid	DI Leach	_
890-716-45	CS23-Surface	Soluble	Solid	DI Leach	8
890-716-46	CS23-1'	Soluble	Solid	DI Leach	
MB 880-3455/1-A	Method Blank	Soluble	Solid	DI Leach	9
LCS 880-3455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-31 MS	CS16-Surface	Soluble	Solid	DI Leach	
890-716-31 MSD	CS16-Surface	Soluble	Solid	DI Leach	
890-716-41 MS	CS21-Surface	Soluble	Solid	DI Leach	
890-716-41 MSD	CS21-Surface	Soluble	Solid	DI Leach	
- Analysia Pataby 2495					
Analysis Batch: 3485					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Soluble	Solid	300.0	3424
890-716-2	CS1-1'	Soluble	Solid	300.0	3424
890-716-3	CS2-Surface	Soluble	Solid	300.0	3424
890-716-4	CS2-1'	Soluble	Solid	300.0	3424
890-716-5	CS3-Surface	Soluble	Solid	300.0	3424
890-716-6	CS3-1'	Soluble	Solid	300.0	3424
890-716-7	CS4-Surface	Soluble	Solid	300.0	3424
890-716-8	CS4-1'	Soluble	Solid	300.0	3424
890-716-9	CS5-Surface	Soluble	Solid	300.0	3424
890-716-10	CS5-1'	Soluble	Solid	300.0	3424
MB 880-3424/1-A	Method Blank	Soluble	Solid	300.0	3424
LCS 880-3424/2-A	Lab Control Sample	Soluble	Solid	300.0	3424
LCSD 880-3424/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3424
890-716-1 MS	CS1-Surface	Soluble	Solid	300.0	3424
890-716-1 MSD	CS1-Surface	Soluble	Solid	300.0	3424

#### Analysis Batch: 3486

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-11	CS6-Surface	Soluble	Solid	300.0	3451
890-716-12	CS6-1'	Soluble	Solid	300.0	3451
890-716-13	CS7-Surface	Soluble	Solid	300.0	3451
890-716-14	CS7-1'	Soluble	Solid	300.0	3451
890-716-15	CS8-Surface	Soluble	Solid	300.0	3451
890-716-16	CS8-1'	Soluble	Solid	300.0	3451
890-716-17	CS9-urface	Soluble	Solid	300.0	3451
890-716-18	CS9-1'	Soluble	Solid	300.0	3451
890-716-19	CS10-Surface	Soluble	Solid	300.0	3451
890-716-20	CS10-1'	Soluble	Solid	300.0	3451
890-716-21	CS11-Surface	Soluble	Solid	300.0	3451
890-716-22	CS11-1'	Soluble	Solid	300.0	3451
890-716-23	CS12-Surface	Soluble	Solid	300.0	3451
890-716-24	CS12-1'	Soluble	Solid	300.0	3451

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Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

#### HPLC/IC (Continued)

#### Analysis Batch: 3486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-25	CS13-Surface	Soluble	Solid	300.0	3451
890-716-26	CS13-1'	Soluble	Solid	300.0	3451
890-716-27	CS14-Surface	Soluble	Solid	300.0	3451
890-716-28	CS14-1'	Soluble	Solid	300.0	3451
890-716-29	CS15-Surface	Soluble	Solid	300.0	3451
890-716-30	CS15-1'	Soluble	Solid	300.0	3451
MB 880-3451/1-A	Method Blank	Soluble	Solid	300.0	3451
LCS 880-3451/2-A	Lab Control Sample	Soluble	Solid	300.0	3451
LCSD 880-3451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3451
890-716-11 MS	CS6-Surface	Soluble	Solid	300.0	3451
890-716-11 MSD	CS6-Surface	Soluble	Solid	300.0	3451
890-716-21 MS	CS11-Surface	Soluble	Solid	300.0	3451
890-716-21 MSD	CS11-Surface	Soluble	Solid	300.0	3451

#### Analysis Batch: 3533

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Soluble	Solid	300.0	3455
890-716-32	CS16-1'	Soluble	Solid	300.0	3455
890-716-33	CS17-Surface	Soluble	Solid	300.0	3455
890-716-34	CS17-1'	Soluble	Solid	300.0	3455
890-716-35	CS18-Surface	Soluble	Solid	300.0	3455
890-716-36	CS18-1'	Soluble	Solid	300.0	3455
890-716-37	CS19-Surface	Soluble	Solid	300.0	3455
890-716-38	CS19-1'	Soluble	Solid	300.0	3455
890-716-39	CS20-Surface	Soluble	Solid	300.0	3455
890-716-40	CS20-1'	Soluble	Solid	300.0	3455
890-716-41	CS21-Surface	Soluble	Solid	300.0	3455
890-716-42	CS21-1'	Soluble	Solid	300.0	3455
890-716-43	CS22-Surface	Soluble	Solid	300.0	3455
890-716-44	CS22-1'	Soluble	Solid	300.0	3455
890-716-45	CS23-Surface	Soluble	Solid	300.0	3455
890-716-46	CS23-1'	Soluble	Solid	300.0	3455
MB 880-3455/1-A	Method Blank	Soluble	Solid	300.0	3455
LCS 880-3455/2-A	Lab Control Sample	Soluble	Solid	300.0	3455
LCSD 880-3455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3455
890-716-31 MS	CS16-Surface	Soluble	Solid	300.0	3455
890-716-31 MSD	CS16-Surface	Soluble	Solid	300.0	3455
890-716-41 MS	CS21-Surface	Soluble	Solid	300.0	3455
890-716-41 MSD	CS21-Surface	Soluble	Solid	300.0	3455

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#### **Client Sample ID: CS1-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Batch		Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:26	СН	XEN MID

#### Client Sample ID: CS1-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial Amount	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor		Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:41	CH	XEN MID

#### **Client Sample ID: CS2-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch	Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:46	СН	XEN MID

#### Client Sample ID: CS2-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 00:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:00	СН	XEN MID

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Lab Sample ID: 890-716-1

Lab Sample ID: 890-716-2

Matrix: Solid

Matrix: Solid

Job ID: 890-716-1

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#### Lab Sample ID: 890-716-3 Matrix: Solid

#### Lab Sample ID: 890-716-4 Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-716-5

#### **Client Sample ID: CS3-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3392	05/24/21 09:50	KL	XEN MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 00:35	KL	XEN MI
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MI
Total/NA	Analysis	8015B NM		1			3440	05/26/21 02:19	AJ	XEN MI
Soluble	Leach	DI Leach			4.67 g	50 mL	3424	05/24/21 13:48	SC	XEN MI
Soluble	Analysis	300.0		1			3485	05/26/21 21:05	СН	XEN MI

#### **Client Sample ID: CS3-1'** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial Amount	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor		Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 00:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:10	СН	XEN MID

#### **Client Sample ID: CS4-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

#### Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 3392 Prep 5.00 g 5 mL 05/24/21 09:50 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 3386 05/25/21 01:16 KL XEN MID 1 Total/NA 8015NM Prep 10.01 g 10 mL 3444 05/25/21 08:49 DM XEN MID Prep Total/NA 8015B NM 05/26/21 03:01 XEN MID Analysis 1 3440 AJ 5.03 g 50 mL 05/24/21 13:48 SC XEN MID Soluble Leach DI Leach 3424 3485 XEN MID Soluble Analysis 300.0 05/26/21 21:15 CH 1

#### Client Sample ID: CS4-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch	D	Dil	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	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 01:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 03:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:20	СН	XEN MID

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#### Lab Sample ID: 890-716-7 Matrix: Solid

Lab Sample ID: 890-716-8

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-716-9

Lab Sample ID: 890-716-10

#### Client Sample ID: CS5-Surface Date Collected: 05/21/21 00:00

Date Received:	05/21/21	13:48

Batch	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 01:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:25	CH	XEN MID

#### Client Sample ID: CS5-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 02:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:30	СН	XEN MID

#### Client Sample ID: CS6-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3392	05/24/21 09:50	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 03:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 04:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:09	СН	XEN MID

#### Client Sample ID: CS6-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 03:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:24	СН	XEN MID

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Lab Sample ID: 890-716-11 Matrix: Solid

Lab Sample ID: 890-716-12

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-716-13

Lab Sample ID: 890-716-14

#### Client Sample ID: CS7-Surface Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3392	05/24/21 09:50	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 04:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:29	СН	XEN MI

#### Client Sample ID: CS7-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 04:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:33	СН	XEN MID

#### Client Sample ID: CS8-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:38	СН	XEN MID

#### Client Sample ID: CS8-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:53	СН	XEN MID

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#### Lab Sample ID: 890-716-15 Matrix: Solid

Lab Sample ID: 890-716-16

#### Client Sample ID: CS9-urface Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:58	СН	XEN MID

#### Client Sample ID: CS9-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 06:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 07:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:03	СН	XEN MID

#### Client Sample ID: CS10-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

#### Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 3392 Prep 5.04 g 5 mL 05/24/21 09:50 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 3386 05/25/21 06:22 KL XEN MID 1 Total/NA 8015NM Prep 10.03 q 10 mL 3444 05/25/21 08:49 DM XEN MID Prep Total/NA 8015B NM 05/26/21 07:36 XEN MID Analysis 1 3440 AJ 50 mL 05/25/21 10:02 SC XEN MID Soluble Leach DI Leach 4.96 g 3451 XEN MID Soluble Analysis 300.0 3486 05/26/21 23:08 CH 1

#### Client Sample ID: CS10-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 06:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 07:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:13	СН	XEN MID

Matrix: Solid

Lab Sample ID: 890-716-20

Matrix: Solid

Lab Sample ID: 890-716-19

Lab Sample ID: 890-716-18

Lab Sample ID: 890-716-17 Matrix: Solid

Matrix: Solid

Job ID: 890-716-1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-716-21

Lab Sample ID: 890-716-22

	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	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 00:12	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:18	СН	XEN MID

#### Client Sample ID: CS11-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:15	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:32	СН	XEN MID

#### **Client Sample ID: CS12-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:37	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:37	СН	XEN MID

#### Client Sample ID: CS12-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:57	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:52	СН	XEN MID

Matrix: Solid

Lab Sample ID: 890-716-24

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#### Lab Sample ID: 890-716-23 Matrix: Solid

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 890-716-25

Lab Sample ID: 890-716-26

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 02:19	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:57	СН	XEN MID

#### Client Sample ID: CS13-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 02:40	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:02	СН	XEN MID

#### **Client Sample ID: CS14-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:01	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:07	СН	XEN MID

#### Client Sample ID: CS14-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:22	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:11	СН	XEN MID

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#### Lab Sample ID: 890-716-27 Matrix: Solid

Lab Sample ID: 890-716-28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Fotal/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:57	KL	XEN MID
īotal/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:16	СН	XEN MID

#### Client Sample ID: CS15-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 02:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 04:04	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:21	СН	XEN MID

#### **Client Sample ID: CS16-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 16:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 04:46	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:00	СН	XEN MID

#### Client Sample ID: CS16-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 17:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3502	05/27/21 06:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:15	СН	XEN MID

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Job ID: 890-716-1

#### Lab Sample ID: 890-716-29 Matrix: Solid

Lab Sample ID: 890-716-30

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#### Lab Sample ID: 890-716-31 Matrix: Solid

Lab Sample ID: 890-716-32

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 17:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 05:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:20	СН	XEN MID

#### Client Sample ID: CS17-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 05:50	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:25	CH	XEN MID

#### Client Sample ID: CS18-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:11	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:30	СН	XEN MID

#### Client Sample ID: CS18-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:32	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:44	СН	XEN MID

Eurofins Xenco, Carlsbad

# J/27/21 01:25 CH XEN MID Lab Sample ID: 890-716-35

Lab Sample ID: 890-716-36

Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 890-716-1

#### Lab Sample ID: 890-716-33 Matrix: Solid

Lab Sample ID: 890-716-34

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-716-37

Lab Sample ID: 890-716-38

	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	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:53	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:49	СН	XEN MID

#### Client Sample ID: CS19-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:14	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:54	СН	XEN MID

#### **Client Sample ID: CS20-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:36	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:59	СН	XEN MID

#### Client Sample ID: CS20-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 20:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:57	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:04	СН	XEN MID

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#### Lab Sample ID: 890-716-39 Matrix: Solid

Lab Sample ID: 890-716-40

Client: EOR/Ridgeway Arizona Oil Corp

**Client Sample ID: CS21-Surface** 

Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

#### Lab Sample ID: 890-716-41 Matrix: Solid

Lab Sample ID: 890-716-42

Lab Sample ID: 890-716-43

Lab Sample ID: 890-716-44

Matrix: Solid

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 06:54	MR	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 22:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 20:45	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:09	СН	XEN MID

#### Client Sample ID: CS21-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

#### Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 3389 XEN MID Prep 4.98 g 5 mL 05/24/21 13:00 MR Total/NA 8021B Analysis 1 5 mL 5 mL 3388 05/25/21 07:15 MR XEN MID Total/NA 5035 Prep 5.01 a 5 mL 3457 05/25/21 10:23 MR XEN MID Total/NA Analysis 8021B 1 5 mL 5 mL 3460 05/25/21 22:45 MR XEN MID Total/NA 8015NM Prep 10.00 g XEN MID Prep 10 mL 3429 05/24/21 16:09 DM Total/NA Analysis 8015B NM 1 3438 05/25/21 21:06 AM XEN MID Leach Soluble DI Leach 4.96 g 50 mL 3455 05/25/21 10:05 SC XEN MID Soluble Analysis 300.0 1 3533 05/27/21 02:23 CH XEN MID

#### **Client Sample ID: CS22-Surface**

#### Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 07:35	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 23:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 21:28	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:28	СН	XEN MID

#### Client Sample ID: CS22-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 07:56	MR	XEN MID

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Released to Imaging: 1/24/2023 12:30:40 PM

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

## Lab Sample ID: 890-716-44

Lab Sample ID: 890-716-45

Matrix: Solid

Matrix: Solid

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Project/Site: Mizar 11 Fed Com 14 Client Sample ID: CS22-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 23:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 21:49	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:43	СН	XEN MID

#### **Client Sample ID: CS23-Surface** Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	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	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 08:16	MR	XEN MID
Total/NA	Prep	5035			5.06 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/26/21 00:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 22:11	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:48	СН	XEN MID

#### Client Sample ID: CS23-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

#### Lab Sample ID: 890-716-46 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 08:36	MR	XEN MID
Total/NA	Prep	5035			5.07 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/26/21 00:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 22:32	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:53	СН	XEN MID

#### Laboratory References:

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

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Job ID: 890-716-1

#### Accreditation/Certification Summary

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

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Laboratory: Eurofins Xenco, Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Ithority	P	Program	Identification Number	Expiration Date		
xas	N	IELAP	T104704400-20-21	06-30-21		
• •		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for		
the agency does not of	fer certification.					
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte			
0,		Matrix Solid	Analyte Total TPH			

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#### **Method Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Method	Method Description	Protocol	Laboratory	
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID	-
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
300.0	Anions, Ion Chromatography	MCAWW	XEN MID	
5035	Closed System Purge and Trap	SW846	XEN MID	
3015NM Prep	Microextraction	SW846	XEN MID	
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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.

#### Laboratory References:

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

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Eurofins Xenco, Carlsbad

#### Sample Summary

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

ab Sample ID.	Client Sample ID	Matrix	Collected	Receive
90-716-1	CS1-Surface	Solid	05/21/21 00:00	05/21/21 13:4
90-716-2	CS1-1'	Solid	05/21/21 00:00	05/21/21 13:48
90-716-3	CS2-Surface	Solid	05/21/21 00:00	05/21/21 13:48
90-716-4	CS2-1'	Solid	05/21/21 00:00	05/21/21 13:48
0-716-5	CS3-Surface	Solid	05/21/21 00:00	05/21/21 13:48
0-716-6	CS3-1'	Solid	05/21/21 00:00	05/21/21 13:48
0-716-7	CS4-Surface	Solid	05/21/21 00:00	05/21/21 13:48
)-716-8	CS4-1'	Solid	05/21/21 00:00	05/21/21 13:48
-716-9	CS5-Surface	Solid	05/21/21 00:00	05/21/21 13:48
-716-10	CS5-1'	Solid	05/21/21 00:00	05/21/21 13:48
-716-11	CS6-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-12	CS6-1'	Solid	05/21/21 00:00	05/21/21 13:48
-716-13	CS7-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-14	CS7-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-15	CS8-Surface	Solid	05/21/21 00:00	05/21/21 13:48
16-16	CS8-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-17	CS9-urface	Solid	05/21/21 00:00	05/21/21 13:48
716-18	CS9-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-19	CS10-Surface	Solid	05/21/21 00:00	05/21/21 13:48
16-20	CS10-1'	Solid	05/21/21 00:00	05/21/21 13:48
16-21	CS11-Surface	Solid	05/21/21 00:00	05/21/21 13:48
16-22	CS11-1'	Solid	05/21/21 00:00	05/21/21 13:48
16-23	CS12-Surface	Solid	05/21/21 00:00	05/21/21 13:48
16-24	CS12-1'	Solid	05/21/21 00:00	05/21/21 13:48
6-25	CS13-Surface	Solid	05/21/21 00:00	05/21/21 13:48
6-26	CS13-1'	Solid	05/21/21 00:00	05/21/21 13:48
6-20 6-27	CS14-Surface			
		Solid	05/21/21 00:00	05/21/21 13:48
16-28	CS14-1'	Solid	05/21/21 00:00	05/21/21 13:48
16-29	CS15-Surface	Solid	05/21/21 00:00	05/21/21 13:48
6-30	CS15-1'	Solid	05/21/21 00:00	05/21/21 13:48
6-31	CS16-Surface	Solid	05/21/21 00:00	05/21/21 13:48
16-32	CS16-1'	Solid	05/21/21 00:00	05/21/21 13:48
16-33	CS17-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-34	CS17-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-35	CS18-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-36	CS18-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-37	CS19-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-38	CS19-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-39	CS20-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-40	CS20-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-41	CS21-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-42	CS21-1'	Solid	05/21/21 00:00	05/21/21 13:48
716-43	CS22-Surface	Solid	05/21/21 00:00	05/21/21 13:48
716-44	CS22-1'	Solid	05/21/21 00:00	05/21/21 13:48
0-++				
6-45	CS23-Surface	Solid	05/21/21 00:00	05/21/21 13:48

#### Chain of Custody **eurofins** Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 **Environment Testing** Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Page / of 5 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Deven Energy Tom Bynum Work Order Comments Project Manager: Bill to: (if different) Program: UST/PST 🗍 PRP 🗍 Brownfields 🗍 RRC 🗍 Superfund 🗌 PIMA Company Name: Company Name: 1601 N. Timer St. State of Project: Address: Address: Reporting: Level II 🗍 Level III 🗋 PST/UST 📋 TRRP 📄 Level IV 🗍 Hobbs NM 88220 City, State ZIP: City, State ZIP: Deliverables: EDD ADaPT 🛛 Other: Email: Phone: **Preservative Codes** Parkway West SWO 1 ANALYSIS REQUEST **Turn Around** Project Name: Pres. DI Water: H<sub>2</sub>O Routine Rush None: NO Project Number: Code MeOH: Me Cool: Cool Due Date: Project Location: HCL: HC HNO3: HN TAT starts the day received by Sampler's Name: the lab, if received by 4:30pm NaOH: Na H2SO4: H2 PO #: Parameters H<sub>3</sub>PO₄: HP Yes No SAMPLE RECEIPT Temp Blank: Wet Ice: Yes No NaHSO4: NABIS Yes m-Samples Received Intact: No Thermometer ID: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub> Ņ, N/A Correction Factor: Cooler Custody Seals: Yes No à Zn Acetate+NaOH: Zn Yes Sample Custody Seals: No N/A Temperature Reading: 74.4 NaOH+Ascorbic Acid: SAPC 24.2 Corrected Temperature: Total Containers: Grab/ Date # of Time Sample Comments Sample Identification Matrix Depth Sampled Cont Sampled Comp CSI-Surface 5/21/21 G Soul CS1 - 1' CS2 - Surface CS2-1' CS3- Surface C53-1' CS4-Surface CS4-1' C35-Surface CS5-1' 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: Hg: 1631 / 245.1 / 7470 / 7471 TCLP/SPLP 6010: SRCRA SD AS Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed 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. Date/Time Received by: (Signature) Relinguished by: (Signature) Received by: (Signature) Date/Time Relinguished by: (8) gnature 5-21-21 1348 Caslean 10 Ino

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Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 1/4/2023 7:04:36 AM

# 13

					bock, TX (806 bad, NM (575					www.xend	co.com	Page _ 2 of _ 5
Project Manager:	Bill to: (if differen	nt)								Work (	Order Co	mments
Company Name: 29	Company Nam	ie:						Program	n: UST/PS1		] Brownfi	elds RRC Superfund
Address:	Address:							,	Project:			
City, State ZIP:	City, State ZIP:							Reportir	ig: Level II [	Level III		JST 🛛 TRRP 🗌 Level IV 🗌
	Email:		l					Delivera	bles: EDD		ADaPT [	Other:
Phone:								_ <u> </u>				
Project Name:	Turn Around	Pres.	_		1 1	ANALYS	IS RE	QUEST				Preservative Codes
Project Number:	Routine Rush	Code			<u> </u>	<b> </b>			$\rightarrow$		N	one: NO DI Water: H <sub>2</sub> O
Project Location:	Due Date:										c	ool: Cool MeOH: Me
Sampler's Name:	TAT starts the day received by	<u></u>						+	-+-+		Н	CL: HC HNO3: HN
PO #:	the lab, if received by 4:30pm	2									H H	<sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT Temp Blank: Yes No	Wet Ice: Yes No	Parameters					1				н	₃PO₄: HP
Samples Received Intact: Yes No Thermomet	er ID.	- au		X							N	aHSO₄: NABIS
Cooler Custody Seals: Yes No N/A Correction F		- B		N							N	a <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Tes No N/A Temperatur	e Reading:	] '	2	17							Z	n Acetate+NaOH: Zn
Total Containers: Corrected T	emperature:	]		ali							N	aOH+Ascorbic Acid: SAPC
Sample Identification Matrix Date Sampled		/ # of Cont										Sample Comments
CS6-Surface Soil 5/21/21	6	$\pi$		11								
CS6-11												
CS7-Surfue												
<u>cs7-1'</u>		++		+++								
	┝───┼──┼─╊	┽╋╼┦		+++				1-1				
CS8-Surface		┼┽┙	+		+ - + -							
<u>c38-1'</u>		┼╋┙		+++	++	++		+ +-			+	
CS9-Surface		┼╋╌┙	+++	+++	┢──┤──			+ -+				
<u>csq-1'</u>		┽╄╌┙		+++		┨──		+		_+_	+	
CS10-Surface		++		╅╢╁	┢──┟───	+ +	+	+			+	
C\$10-1'												
Total 200.7 / 6010 200.8 / 6020: 8F	RCRA 13PPM Texas 11	AIS	b As	Ba Be E	Cd Ca C	r Co Cu	Fe Pl	o Mg Mn	Mo Ni K	Se Ag	SiO <sub>2</sub> Na	Sr TI Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		CRA	SD AS	ва Ве	Cd Cr Co	Cu Pb N	In Mo	Ni Se A	gTIU	Hg:	1631 / 24	45.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples con	stitutes a valid purchase order from	m client c	ompany	to Eurofins	enco, its affilia	tes and subco	ontracto	rs. It assigns	standard terr	ns and cond	litions	
of service. Eurofins Xenco will be liable only for the cost of samples our of furofins Xenco. A minimum charge of \$65.00 will be applied to each	nd shall not assume any responsib	ility for a	ny losses	s or expense	incurred by th	e client if suc	h losses	are due to c	rcumstances	beyond the o	control	
of Euronins Xenco. A minimum charge of \$65.00 min be applied to cach		T	Deter	Time	Relingu	ished by:	(Signa	ture)	Receiv	ved by: (S	Signature	) Date/Time
	ed by; (Signature)		Date/	nme	1 resinge	ionoa oj.	(0.9			···· (·		
	ed by: (Signature)	5	21.7	1 1347			(0.9.10					

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Environment Testing Xenco

#### **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 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

Work Order No: \_\_\_\_\_

		Hobbs, NM (	(575) 392-7550, Carlst	oad, NM (575) 988-3199	www.xenco.cor	m Page <u>3 of </u>
Project Manager:		Bill to: (if different)			Work Order	
Company Name:	. /	Company Name:			Program: UST/PST PRP Brow	wnfields RRC Superfund
	A	Address:			State of Project:	
City, State ZIP:		City, State ZIP:			Reporting: Level II 🗌 Level III 🔲 P	ST/UST 🗍 TRRP 📋 Level IV 🗌
Phone:	Email:		<u> </u>		Deliverables: EDD 🗌 ADal	PT 🔲 Other:
		· · · · · ·		ANALYSIS REQ	HEST	Preservative Codes
Project Name:		Rush Pres.				None: NO DI Water: H <sub>2</sub> O
Project Number:		Code	╏╋╴╸┫╍╍╌┠╸╸			Cool: Cool MeOH: Me
Project Location: Sampler's Name:	Due Date:	e day received by				HCL: HC HNO3: HN
PO #:		eived by 4:30pm				H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT Temp B	lank: Yes No Wet Ice:	Aarameters				H <sub>3</sub> PO <sub>4</sub> : HP
Samples Received Intact: Yes		ram	, ,+			NaHSO₄: NABIS
Cooler Custody Seals: Yes No	N/A Correction Factor	Pa				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Yes No	N/A Temperature Reading:	·	10 K Ci			Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:		1XMV			NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix Date Time Sampled Sampled	Depth Grab/ # of Comp Cont				Sample Comments
CSII-Surface	5011 5/21/21	GI				
CSII - I'						
CS12-Surface						
CS12-1'						
CS13-Surface			<del>↓↓                                   </del>			
CS13-1'			┼┼╶┼┼╼┼╌╉╶			<u> </u>
CS14-Surface		┝╾╾╌┥┥┥┥┝	╎╅╼┤╄╶┼╶╉╼		┟──┼──┼──┼──┼──	+
cs14-1'		┝╼══┝╋╋┥╋╸	┼╉╌┼╄╌┼╉╌			
CS15-Sortace		┝╌═╼╀═╊╌╄╼╋	┼┼╌┼╂╶┼╂╌		┟┈┟━┥╸┾╺┼╌┾┈	
CS15-1'						
Total 200.7 / 6010 200.8 / 60					Mg Mn Mo Ni K Se Ag SiO <sub>2</sub>	
Circle Method(s) and Metal(s) to be	analyzed TCLP / SI	LP 6010: 8RCRA	Sb As Ba Be C	d Cr Co Cu Pb Mn Mo	NiSe Ag TIU Hg: 1631	/245.1/7470/7471
Notice: Signature of this document and relinqu of service. Eurofins Xenco will be liable only fo of Eurofins Xenco. A minimum charge of \$85.0	or the cost of samples and shall not assi	me any responsibility for a	any losses or expenses	incurred by the client if such losses a	re due to circumstances beyond the control	ted.
Relinquished by: (Signature)	Received by: (Signa	the second s	Date/Time	Relinquished by: (Signatu		
Leleustram C.	Clae Cut	5	-21-21 1347	Ŷ		
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Released to Imaging: 1/24/2023 12:30:40 PM

5/28/2021

Revised Date: 08/25/2020 Rev. 2020.2

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Xenco	ment Testing	EL Pa	so, TX (915)	04-5440, San Ar 585-3443, Lubb 392-7550, Carlst	ock, TX (806)	794-1296			k Order I		4_of_5
Project Manager:	Bill	to: (if differen	t)						Work Orde	er Comments	
		mpany Name					Progra	m: UST/PST		ownfields RR	C Superfund
Address:		dress:					1 1	of Project:			
City, State ZIP:		y, State ZIP:					Report	ing: Level II 🗌	Level III 🗌	PST/UST 🗌 TRE	RP 🗍 Level IV
Phone:	Email:						Deliver	ables: EDD [	AD	aPT Oth	er:
Project Name:	Turn Arc	ound				ANALYSIS	REQUEST			Preser	vative Codes
Project Number:		Rush	Pres. Code	TT						None: NO	DI Water: H <sub>2</sub> 0
Project Location:	Due Date:									Cool: Cool	MeOH: Me
Sampler's Name:	TAT starts the day	y received by		╶┼╴╌┼╴╌╸				-+-+		HCL: HC	HNO3: HN
PO #:	the lab, if receive	ed by 4:30pm	2							H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT Temp Blank:	Yes No Wet Ice:	Yes No	Parameters							H₃PO₄: HP	
Samples Received Intact: Yes No	Thermometer ID:		aran							NaHSO₄: NA	
Cooler Custody Seals: Yes No N/A	Correction Factor: C	4/	Å.							Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : Na	
Sample Custody Seals: Yes No H/A	Temperature Reading:									Zn Acetate+N	
Total Containers:	Corrected Temperature:									NaOH+Ascor	bic Acid: SAPC
Sample Identification Matrix CS/16 - Surface Soil	Date Time De Sampled Sampled De	epth Grab/ Comp							_	Sample	e Comments
CS16 - 1'	5/2//11	<u> </u>	$\frac{1}{1}$								
CS17-Surface				+							
C317-1'											
CS18-Surface											
CS18-1'		-++									
CS19-Surface											
C319-11											
CS20-Surface											
CS20-1'											
Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM	Texas 11		s Ba Re R	Cd Ca Cr	Co Cu Fe	Pb Ma M	MoNiK !	Se Aa SiO	ha Sr TI Sn	UVZn
Circle Method(s) and Metal(s) to be analy										31 / 245.1 / 7470	
Notice: Signature of this document and relinguishment of service. Eurofins Xenco will be liable only for the cos of Eurofins Xenco. A minimum charge of \$85.00 will be	t of samples and shall not assume a	any responsibil	ity for any los	ses or expenses	incurred by the	client if such lo	sses are due to	circumstances be	yond the contr	ol	
Retinquished by: (Signature)	Received by: (Signature			e/Time		shed by: (Si			d by: (Sign		Date/Time
11-1-11	1.10 Carte		5-21.	21 1348	2						
La local accor CV.											

Page 87 of 92

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Environment Testing Xenco

#### Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 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

Work Order No: \_\_\_\_\_

						HODD			_								ww	w.xen	co.com	Page _	<u></u>
Project Manager:					Bill to: (	if differen	t)		_		/							Work	Order	Comments	
ompany Name:					Compa	ny Nam			0						Prog	ram: US	/PST	PRP	Brow	nfields 🗌 R	RC Superfund
ddress:					Address	s:			te	1						of Proje					_
ity, State ZIP:		_			City, Sta	ate ZIP:				)				7	Repo	rting: Lev	el II 🗌 I	Level II	I 🗌 PS	T/UST 🗌 T	
hone:				Ema	il:										Delive	erables:		]	ADaP	т 🗆 о	ther:
roject Name:				Tu	rn Around	1						ANA	LYSIS	REC	UEST	•				Pres	ervative Codes
roject Number:				Routine	Rus	h	Pres. Code				T				Γ					None: NO	DI Water: H <sub>2</sub> O
oject Location:				Due Date	:															Cool: Cool	MeOH: Me
ampler's Name:				TAT starts	the day rec	eived by					_{				+					HCL: HC	HNO3: HN
) #:				the lab, if	eceived by	4:30pm	2													H₂S0₄: H₂	NaOH: Na
AMPLE RECEIPT	Temp Bl	ank:	Yes N	Wette	Yes	No	lete											1		H₃PO₄: HP	
mples Received Intact:	Yes	No	Thermon	ieter ID:	al		Parameters													NaHSO₄: N	ABIS
ooler Custody Seals: Y	res No	NA	Correctio	n Factor:	p		1 4								[					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : N	laSO <sub>3</sub>
mple Custody Seals:	No No	N/A	Tempera	ture Reading:							1										+NaOH: Zn
tal Containers:			Corrected	d Temperatur	ə:															NaOH+Asc	orbic Acid: SAPC
Sample Identification	n	Matrix	Date Sample	Time d Sampled	Depth	Grab/ Comp	# of Cont													Sam	ple Comments
CS21-Surfa	e	Soil	5/21/2	21		6	1														
CS21-1'																				L	
CS22-Sur	nee																				
CS22-1'																					
CS23-Such	ace			ſ																	
cSa3-1'																					
		-																			
Total 200.7 / 6010 20	00.8 / 60	20.		8RCRA 13		xas 11	ALS	b As	Ba Be	B Cr	I Ca C	Co	Cu Fe	Ph	Ma N	In Mo	NIKS	e Aa	SiO <sub>2</sub>	Va Sr TI S	Sn U V Zn
cle-Method(s) and Metal					SPLP 601															/ 245.1 / 74	
									_						_		_				
ce: Signature of this document a ervice. Eurofins Xenco will be lia urofins Xenco. A minimum charg	able only for	r the cos	at of samples	and shall not a	sume any re	sponsibil	ity for a	ny losse:	or expe	nses incl	urred by th	e client i	fsuch los	ses a	re due te	o circumsta	inces bey	ond the	control	d	
Relinguished by: (Signat	ture)	2	Recei	ved by: (Sig	nature)			Date/	Time		Relinqu	ished	by: (Sig	Inat	ure)	R	eceived	d by: (\$	Signatu	ire)	Date/Time
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and and 6										4											
(	+														·····						

1089 N Canal St.

Page 258 of 262

## **Chain of Custody Record**

13



eurofins | Environment Testing | America

Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199

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	Sampler			Lab	DM								0			- N - 7-3			locon				
Client Information (Sub Contract Lab)	Gampier				/lor, F	Holly							Car	TIEFIT	аскіло	No(s)			COC No 890-23				
Client Contact: Shipping/Receiving	Phone:		<u></u>	E-Ma		lor@	euro	ofinse		m					Drigin: exico				Page: Page				
Company										See note	e)		110						Job #:				
Eurofins Xenco					NE	LAP	- Te	exas			-								890-7	6-1			
Address. 1211 W Florida Ave, ,	Due Date Request 5/27/2021	ted								Ana	lysi	is Re	que	ste	d					vation Co			
City Nielend	TAT Requested (d	ays)					Т	T	T		Ť		Ť.	1	1	T			A HCI B NaC			Hexane None	
Midland State, Zip:	4				19													1	C - Zn D - Nitr			AsNaO2	
TX, 79701																			E - Nał	ISO4		Na2O4S Na2SO3	
Phone:	PO#								Ŧ										F Me G Am			Va2S2O3 H2SO4	
432-704-5440(Tel) Email	WO #:				-9			ride	F									1999 1999	H Asc	orbic Acid	Т	SP Dodecahy	drate
	110 <i>m</i> .				or	(j		ਤੋ	ц Ц										J Ice		VI	Acetone MCAA	
Project Name: Mizar 11 Fed Com 14	Project #:				- <u>%</u>	P P	×	Ę	۲, E									tainar	K - ED L ED			pH 4-5 other (specify)	
Site:	89000051 SSOW#:				- Pie	Xes	818	9	ş									onta	Other <sup>.</sup>			····· (-F-1))	
					Sam	SD	8021B/5036FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8016NM_S_Prep Fuil TPH									Of C					
			Sample	Matrix	Pe	NWS1	<u>a</u> '	M_28	B/MN									her	ŝ				
	]		Туре	(W≈water		E	6036	RGF	8									Amin					
Complete de stiffe etters - Offent (D. (Let. (D.)		Sample	(C≕Comp,	S≖solid, O≕waste/oll,	bid	ē	21B	2	16M									Total					
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) Preservat			ě	8	8	8	- <u></u>	and the second		teriti provatete	ang armaga	and Steamed	(interes)	<del>र नाम सम्बद्ध</del> ि ह	L		Special	nstru	ctions/Note	
CC4 Curtage (800.746.4)			rieselval	0.18	A		<u>)</u>	<u>186.</u> ]		Carrand Sec. 1	4		n a la l	a a a a a a a a a a a a a a a a a a a	S. Erennen	<u>i in sei</u>	ingen and a second s	<u> </u>	S indexed		Hellower Part	And	anna ann an tha ann an tha
CS1-Surface (890-716-1)	5/21/21	Mountain	<u> </u>	Solid	+		×	×	X				_						1				
CS1-1' (890-716-2)	5/21/21	Mountain		Solid	$\downarrow$		X	×	×										1				
CS2-Surface (890-716-3)	5/21/21	Mountain		Solid			x	x	х										1				
CS2-1' (890-716-4)	5/21/21	Mountain		Solid			x	х	х										1				
CS3-Surface (890-716-5)	5/21/21	Mountain		Solid			х	x	х		Τ								1				
CS3-1' (890-716-6)	5/21/21	Mountain		Solid			x	х	х							Ι			1				
CS4-Surface (890-716-7)	5/21/21	Mountain		Solid			x	x	х						1	1			1				P
CS4-1' (890-716-8)	5/21/21	Mountain		Solid	Π		х	x	x										1				
CS5-Surface (890-716-9)	5/21/21	Mountain		Solid	Π		x	х	x							1		0	1				
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix	places the ownershi	p of method, a	nalyte & accred	itation complia	ance u	upon	out su	ubcont	ract la	aborator	ries. T	This sa	mple s	hipme	ent is f	orward	ed und	er chair	n-of-custoc	y If the la	boratory	does not curre	entiy
LLC attention immediately If all requested accreditations are current to date ret	urn the signed Chair	of Custody att	esting to said c	omplicance to	Euro	fins X	enco	LLC.	ory or	other in	ISTructi	IONS W	ili be p	rovide	ea. An	y chan	ges to	accredit	tation statu	s should di	e brougi	nt to Eurofins X	enco
Possible Hazard Identification						Sam	ple	Disp	osal	(A fe	e ma	ay be	asse	esse	d if s	ampl			ined lon	ger than	1 mo	nth)	
Unconfirmed								eturn	To C	Client		L	<sup>l</sup> Disp	osal	By L	ab	C	An	chive Fo	r	/	Months	
Deliverable Requested I II III IV Other (specify)	Primary Delive	rable Rank	2			Spe	cial I	nstru	ictior	ns/QC	Requ	uirem	ents										
Empty Kit Relinquished by		Date		and the second	Tin			. /	1	1	7	./		Me	thod o	f Shipn		an a	annaidh 200 ann ann	iki maagoog Gibkr	Aliyo anta ang	******	
Relinquished by GLOCOR 5-21	DatenTime:		(	Company		l	Perfei	veor	h					<b>,</b>		Date	Jime	11-2	1 107	nar	1 Coi	npany	h
Relinquished by:	Date/Time:			Company		Ī	Recei	Ved by	<u>y</u> Y							Date	/Time <sup>.</sup>		<u></u>	~~ .	Cor	mpany	******
Relinquished by	Date/Time:		(	Company		-	Recei	ved by	y.							Date	/Time				Cor	npany	
Custody Seals Intact Custody Seal No	<u> </u>						Coole	r Tem	perati	ure(s) °(	C and	Other	Rema	rks									
Δ Yes Δ No																							

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5/28/2021

#### Eurofins Xenco, Carlsbad

## Chain of Custody Record

13

Environment Testing America

Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199

	Complex																					
Client Information (Sub Contract Lab)	Sampler	·			lor, ł	Holly							Carri	er Trac	king l	Vo(s)				COC No: 890-232 3		<u>Haraki</u>
Shipping/Receiving	Phone <sup>.</sup>			E-Mi holi		/lor@	)eurc	ofinse	et.co	m				of Ori v Mex						Page Page 3 of 6		
Company Eurofins Xenco						reditat			ired (S	See note	)		<b>I</b>						Ť	Job #:		
Address 1211 W Florida Ave	Due Date Request 5/27/2021	ed			╧		- 10								******					890-716-1 Preservation Code	)S	
City <sup>-</sup>	TAT Requested (d	ays).			274038	026	Т		Т	Ana	lysis	s Re	ques	sted		- 1		1		A HCL	M - Hexane	
Midland State, Zip:	-					х х (														B NaOH C - Zn Acetate	N None O - AsNaO2	
TX, 79701																		Study on the	63	D - Nitric Acid E - NaHSO4	P Na2O4S Q - Na2SO3	
Phone: 432-704-5440(Tel)	PO #:								Ŧ									dire Action			R Na2S2O3 S H2SO4	
Email	WO #:				or No	6		hlorid	In											lice	T - TSP Dodecahyd U Acetone	irate
Project Name:	Project #:				- 30	Z		ъ В	Prep										6	K - EDTA	V MCAA W pH 4-5	
Mizar 11 Fed Com 14 Site:	89000051 SSOW#:					Yes	E E	E E	S N												Z other (specify)	
		<u>.</u>			Sam	ISD (	Calc	D/D	3016N										of cc	Other <sup>.</sup>		
			Sample	Matrix	pere	MSM	8021B/6036FP_Calc BTEX	300_ORGFM_23D/DI_LEACH Chloride	8015MOD_NM/8016NM_S_Prep Fuil TPH				ł						Total Number			
		Sample	Type (C=comp,	(W≖water S≈solid,	Ne P	Eo	B/60	ORG	MOM										INN			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	O≕waste/oil, BT≈Tissue, A=Air	Field	F.	8021	30	8015									( ) service and	Tota	Special Ins	structions/Note:	:
		$\geq$	Preserva	tion Code:	X	X.	<del>") """, "", ", ", ", ", ", ", ", ", ", ", </del>	i san an a'					anger og						X			far en al ser
CS10-Surface (890-716-19)	5/21/21	Mountain		Solid			x	х	x										1			
CS10-1' (890-716-20)	5/21/21	Mountain		Solid			x	x	x									1000000	1			
CS11-Surface (890-716-21)	5/21/21	Mountain		Solid			x	x	x										1			
CS11-1' (890-716-22)	5/21/21	Mountain		Solid			x	x	x		-							- ALERANCE	1			
CS12-Surface (890-716-23)	5/21/21	Mountain		Solid			x	x	х			1				·			1			
CS12-1' (890-716-24)	5/21/21	Mountain		Solid	Π		х	x	х									6- 100.1000	1	<u></u>	·····	
CS13-Surface (890-716-25)	5/21/21	Mountain		Solid	Π		x	x	х										1		<u></u>	
CS13-1' (890-716-26)	5/21/21	Mountain		Solid	Π		x	x	х										1	······································		
CS14-Surface (890-716-27)	5/21/21	Mountain		Solid	Π		x	x	x			1						14 R.J	1			
Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix i LLC attention immediately. If all requested accreditations are current to date return									ract la	boratori	es. Th	nis sam	ple shi	ipment	is for	warde	d und	er cha	in-of	-custody If the labor	atory does not curre	ntly
	Irn the signed Chain	of Custody att	esting to said o	complicance to	Eurof	fins Xe	enco l	LLC.	ny Ori			ns wii	pe bro	ovided	Any	change	es to a	accrec	ntatic	in status should be br	ought to Eurofins Xe	enco
Possible Hazard Identification					Т	Sam	ple	Disp	osal	( A fe	e ma	y be a	sses	ssed	if sa	mple	s ar	e ret	aine	ed longer than 1	month)	
Unconfirmed Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Pank	2				_			lient	Dee			sal B	y Lal	)	L	A	rchi	ve For	Months	
Empty Kit Relinguished by	-		۷.					instru	ICtior	ns/QC	Requ	lireme	,									
Polinguished hu	Date/Time:	Date		Compony	Tin		-		/ 		<u> </u>	4	_	Metho								
Relinquished by Abe (1) 5.21.21				Company			114	vector	11	U	<u>Í I</u>			·		Dateл Э~		1-2		0'00.m	Company	
	Date/Time:			Company		R	Recielari	ved by	r	U						Date/1	Time:				Company	
Relinquished by	Date/Time:			Company		R	Receiv	ved by	r.							Date/T	'ime <sup>.</sup>				Company	
Custody Seals Intact Custody Seal No $\Delta$ Yes $\Delta$ No						с	Cooler	r Temp	peratu	re(s) °C	and C	ther R	emark	s	l						L	

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5/28/2021

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#### Login Sample Receipt Checklist

Client: EOR/Ridgeway Arizona Oil Corp

Login Number: 716 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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		I
Samples were received on ice.	True		ï
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		

Job Number: 890-716-1 SDG Number:

List Source: Eurofins Xenco, Carlsbad

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#### Login Sample Receipt Checklist

Client: EOR/Ridgeway Arizona Oil Corp

Login Number: 716

Creator: Copeland, Tatiana

List Number: 2

Job Number: 890-716-1 SDG Number:

List Source: Eurofins Xenco, Midland	
List Creation: 05/24/21 10:13 AM	

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 <6mm (1/4").	True	
MS/MSDs Containers requiring zero headspace have no headspace or bubble is		

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	172038
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/24/2023

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Action 172038