		SI	TE INFOR	MATION		
	R	Report Typ	e: Work I	Plan 2	2RP-541	7
General Site Info						
Site:		RJ Unit #10				
Company:		COG Opera				
Section, Towns	hip and Range	Unit F	Sec. 27	T 17S	R 29E	
Lease Number:						
County:		Eddy Count			_	
GPS:			32.808046			-104.06373
Surface Owner: Mineral Owner:		Federal				
Directions:						Rd turn South on Valley Gas Rd and go and go .40 miles and arrive on site
Release Data:						
Date Released:		4/17/2019				
Type Release:		Produced W				
Source of Contai	mination:	Braden Head		. (
Fluid Released: Fluids Recovered	√ ·		s Produced water			
Official Commu		10,000 0013	produced water	'1		
Name:	Ike Tavarez				Clair Gonz	zales
Company:	COG Operating, L	LC			Tetra Tecl	
Address:	One Concho Cent					Wall Street
	600 W. Illinois Ave				Suite 100	
City:	Midland Texas, 79				Midland, 7	
Phone number:	(432) 686-3023				(432) 687	
Fax:	(432) 684-7137				102, 001	
Email:	itavarez@conch				01 : 0	nzales@tetratech.com

Site Characterization	
Depth to Groundwater:	76' bgs
Floodplain:	Within Floodplain

		Recommended Remedial Action Levels (RRALs)	
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg



September 10, 2019

Mr. Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Work Plan for the COG Operating, LLC, RJ Unit #108, Unit F, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico. 2RP-5417

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess a release that occurred at the RJ Unit #108, Unit F, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.808046°, -104.063730°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on April 17, 2019 and released greater than 13,690 barrels of produced water due to a fitting on the Braden head blowing out. A vacuum truck was dispatched to remove all freestanding fluids, recovering approximately 13,690 barrels of produced water. As shown on Figure 3, the release occurred on pad and pasture impacting an area measuring approximately 400' x 1,500'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, or subsurface mines are located within the specified distances. However, the site is located within a floodplain area and is in a low karst potential area.

The nearest water well is reported in Section 22 on the New Mexico Office of the State Engineer's (NMOSE) database, approximately 0.90 miles North of the site, and has a reported depth to groundwater of 79 feet below surface. The USGS database lists one well located in Section 35, approximately 1.25 miles to the southeast, has a reported depth to groundwater of 152 feet below surface. The USGS database also lists one well in Section 29, approximately 1.60 miles to the southwest of the site, with a reported depth to groundwater of 210 feet below



surface. Additionally, two monitor wells (2" and 4") were found approximately 2.85 miles east of the site (32.813690, -104.018250), that were not listed with the USGS or NMOSE database. COG personnel gauged the monitor wells and found that the 2" well was dry with a total depth of 157' below surface. The 4" monitor well gauged showed a static water level of 266' below surface but could not measure the total depth of the well. The site characterization data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Initial Soil Assessment

Geo-Probe Installation and Sampling

On May 9-10, 2019, Talon personnel were onsite to evaluate and sample the release area. A total of twenty (20) Geoprobe bores (BH-1 through BH-20) were installed in the release footprint to total depths ranging from 0-1' and 12' below surface. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 1. The sample locations are shown on **Figure 4**.

Referring to Table 1, none of the samples collected showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits, with the exception of BH-13, which showed a TPH concentration of 539 mg/kg at 2.0' below surface. However, all boreholes showed elevated chloride concentrations. The areas of BH-12, BH-14, and BH-19 were not vertically defined at 600 mg/kg chlorides at depths ranging from 7.0' to 11.0' below surface. The remaining boreholes were vertically defined to 600 mg/kg at depths ranging from 2.0' to 12.0' below surface.

Horizontal and Overspray Sampling

On May 15, 2019, Talon personnel returned to the site to collect additional samples to assess the overspray area and establish horizontal delineation of the release footprint. A total of twenty (20) auger holes (S-1 through S-20) were installed to total depths 0-1'and 2.0' below surface. Auger holes (S-1 through S-8) were installed in the overspray area to the northeast of the pad and auger holes (S-9 through S-20) were installed around the perimeter of the release footprint for horizontal delineation. The soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B,



and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 1. The sample locations are shown on **Figure 5**.

Referring to Table 1, none of the samples collected showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. Additionally, none of the samples showed any significant chloride concentrations, with concentrations ranging from <16.0 mg/kg to 160 mg/kg and the release footprint was horizontally defined.

Additional Soil Assessment and Re-Evaluation

Borehole Installation and Sampling

Due to recent heavy rains, Tetra Tech personnel returned to the site between June 1-12, 2019 to install boreholes at the site. The additional assessment was performed in order to re-evaluate the subsurface soils to determine if the heavy rains affected the chlorides distribution or concentrations in the subsurface soils.

A total of twenty-four (24) boreholes (BH-1 through BH-24) were installed in the release footprint to total depths ranging from 0-1' to 40.0' below surface. The soil samples were collected and submitted to the laboratory for chloride by EPA method 300.0. The drilling logs are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 2. The sample locations are shown on **Figure 4 and 6**.

North and South Draw Areas

As shown in Figure 4, a total of seven (7) boreholes (BH-12, BH-13, BH-17, BH-18, BH-19, BH-20, and BH-24) were installed along the north draw area and eight (8) boreholes (BH-5, BH-6, BH-7, BH-8, BH-9, BH-10, BH-11, and BH-22) were installed along the south draw area. A chloride concentration distribution Cross-Section (A-A') of these areas are shown on **Figure 7A**.

The north draw area shows the heaviest chloride load, with concentrations exceeding 5,000 mg/kg, in the areas of BH-12, BH-13, BH-17, BH-18, BH-19, and BH-20 in the subsurface soils at depths ranging between 4.0' and 12.0' below surface. However, the areas of BH-12 and BH-13 showed chloride concentrations below 600 mg/kg in the shallow soils from surface to 3.0'-4.0' below surface before increasing with depth to chloride highs of 9,800 mg/kg at 5.0' and 8,660 mg/kg at 6.0' below surface, respectively. The area of BH-24 did not show any chloride concentrations above the RRALs. All of the boreholes in this north draw area were vertically defined to below 600 mg/kg at depths ranging from 9.0' to 35.0' below surface.

The south draw area showed the heaviest chloride loads, with concentrations above 5,000 mg/kg, in the areas of BH-5, BH-6, BH-8, BH-9, and BH-10 in the subsurface soils at depths ranging from surface to 12.0' below surface. The areas of BH-7, BH-8, BH-9, BH-10, and BH-11 did not show a significant chloride impact in the shallow soil from approximately 3'.0 to 4.0' below surface before increasing with depth. The area of BH-22 did not show any elevated chloride concentrations above the RRALs. All of the boreholes in the south area were vertically defined to below 600 mg/kg at depths ranging from 6.0' to 25.0' below surface



Pad Area

A total of five (5) boreholes (BH-1, BH-2, BH-3, BH-4, and BH-23) were installed on the pad area. A chloride concentration distribution Cross-Section (B-B') of these areas is shown on **Figure 8A**.

Referring to Figure 8A, the heaviest chloride loads, with chloride concentrations exceeding 5,000 mg/kg, are in the shallow soils in the areas of BH-2, BH-3, and BH-23 at depths ranging from surface to 3.0' below surface. The areas of BH-1 and BH-4 showed chloride highs of 1,620 mg/kg at 4.0' and 3,280 mg/kg at 0-1', respectively, before declining with depth to below the RRALs at 5.0' below surface. All boreholes were vertically defined to below 600 mg/kg at depths ranging from 4.0' and 8.0' below surface.

South Pad Area/Pasture

A total of four (4) boreholes (BH-14, BH-15, BH-16, and BH-21) were installed in the south pad/pasture area. A chloride concentration distribution Cross-Section (C-C') of these areas is also shown on **Figure 8A**.

Referring to Figure 8A, the heaviest chloride loads, with concentrations exceeding 5,000 mg/kg, are in the area of BH-21 to a depth of 20.0' below surface. Upon further review, the historical aerial photographs appear to show a closured reserve pit in the area. The area of BH-14 showed a chloride high of 4,320 mg/kg at surface and was vertically defined to below 600 mg/kg at 8.0' below surface. The areas of BH-14 and BH-16 did not show any elevated chloride concentrations above the RRALs.

Proposed Work Plan

North and South Draw Areas

In the north draw area, COG proposes to excavate the areas as shown on **Figures 7B** and **9A**. To remove some of elevated chlorides, the areas of boreholes (BH-12, BH-13 and, BH-17) will be excavated to a depth of approximately 7.0'-8.0' below surface and 4.0' in the areas of boreholes (BH-18, BH-19, and BH-20). Once excavated to the appropriate depth, the north area will be capped with a 20-mil liner and backfilled with clean soil. All of the material will be hauled to proper disposal.

In the south draw area, COG proposes to excavate the areas as shown on **Figures 7B and 9A**. The areas of boreholes (BH-5 and BH-6) will be excavated to an approximate depth of 7.0'-8.0' below surface and transported to proper disposal. In addition, the areas of boreholes (BH-7, BH-8, BH-9, BH-10, BH-11, and BH-12) will be excavated to a depth of approximately 4.0' below surface. The south draw area will be capped with a 20-mil liner at 4.0' below surface.



South Draw Area - Stockpile Sampling and Evaluation

As shown in **Figure 7B**, the top 4.0' of material did not show a significant chloride impact to the shallow soils in the areas of boreholes (BH-7, BH-8, BH-9, BH-10, BH-11, and BH-12). This area will be excavated to a depth of approximately 4.0' below surface. The excavated material will be segregated into approximately 50-75 cubic yard stockpiles and sampled for chloride analysis evaluation. Based on the sampling results, the stockpile material will be placed back into the excavated areas, if chloride concentrations are below 600 mg/kg. If the material exceeds 600 mg/kg, the excavated soil will be transported to proper disposal and the excavation will be backfilled with clean soil.

Pad Area

Based on the laboratory results, COG proposes to excavate the areas as shown on the on **Figure 8B and 9B**. The areas of BH-1, BH-2, BH-4, and BH-23 will be excavated to a depth of 1.0' below surface. The area of BH-3 will be excavated to a depth of 4.0' below surface. The excavated areas will be backfilled with clean soil. All of the material will be hauled to proper disposal.

South Pad Area/Pasture

In the south pad area, COG proposes to excavate the areas as shown on **Figure 8B** and **9B**. The area of BH-21, which appears to be in the area of a closed reserve pit, will be excavated to a depth of 4.0' below surface and capped with a 20-mil liner to prevent further vertical migration of the deeper impacts. The area of BH-15 will be excavated to a depth of 4.0' below surface. The excavated areas will be backfilled with clean soil. All of the material will be hauled to proper disposal.

Liner Variance and Alternative Sampling Plan

Per rule 19.15.29.14, COG requests a variance to install a 20-mil liner at 4.0' in the closed reserve pit for the area of BH-21 and in the North and South Draw areas (BH-5, BH-6, BH-7, BH-8, BH-9, BH-11, BH-12, BH-13, and BH-17, BH-18, BH-19, and BH-20) to prevent vertical migration of the deeper chloride concentrations detected. Composite sidewall samples will be collected every 2,500 square feet (50' x 50' areas) in the North and South Draw areas. In addition, composite sidewall and bottom hole samples will be collected every 900 square feet (30' x 30') on the Pad and South Pad/Pasture areas. All of the composite samples will be analyzed for chlorides by EPA method 300.0.

An active Plains Pipeline (buried line) is located along the North and South Draw release areas. For proper capping of the impacted areas, the 20-mil liner will be placed underneath the Plains Pipeline. The location of the Plains Pipeline is shown on **Figure 4 and 9A**.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. Also, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.



Once the excavation is complete, the areas will be backfilled with clean material to surface grade. COG estimates approximately 27,000 cubic yards will be excavated, and the remediation to be implemented 90 days after the work plan is approved.

Conclusion

Once the remediation activities have been completed, a final report will be submitted. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,

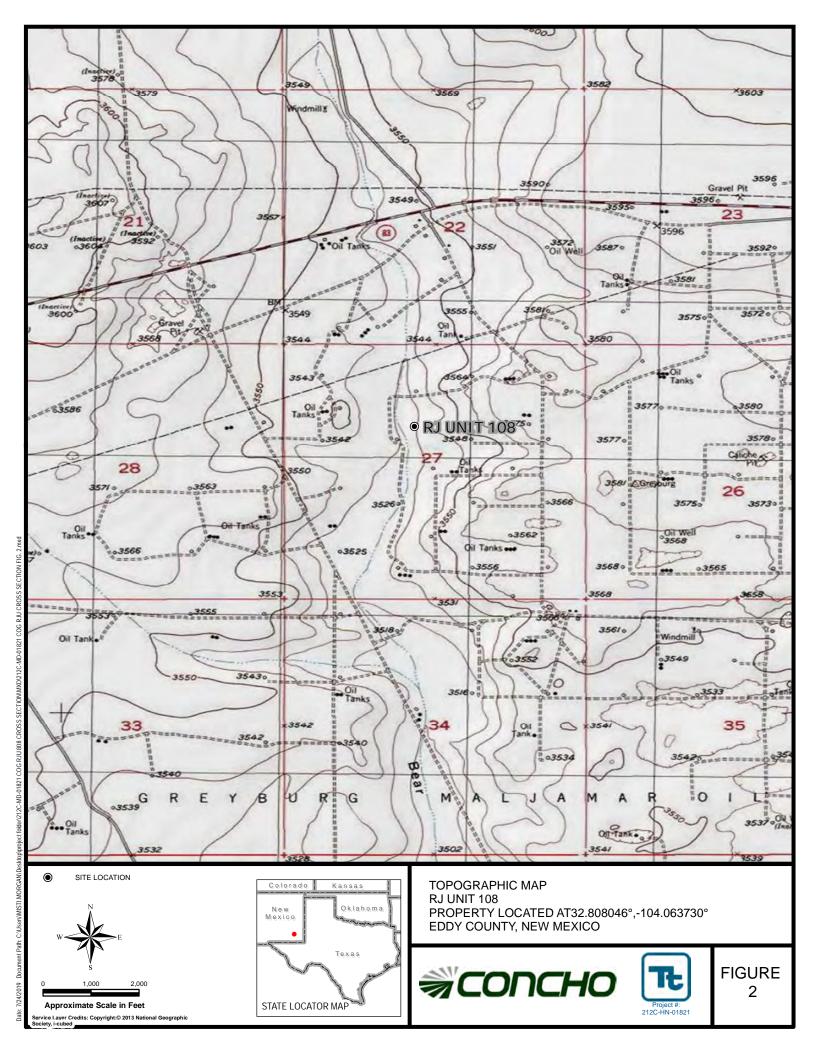
TETRA TECH

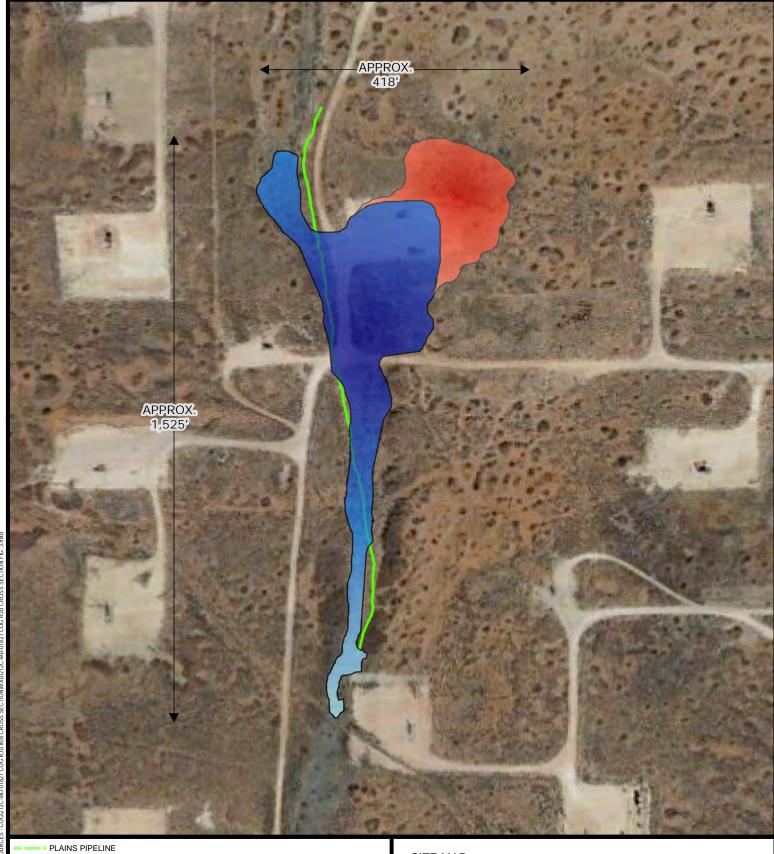
Clair Gonzales, P.G. Project Manager

CC

Ike Tavarez - COG

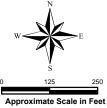
Figures







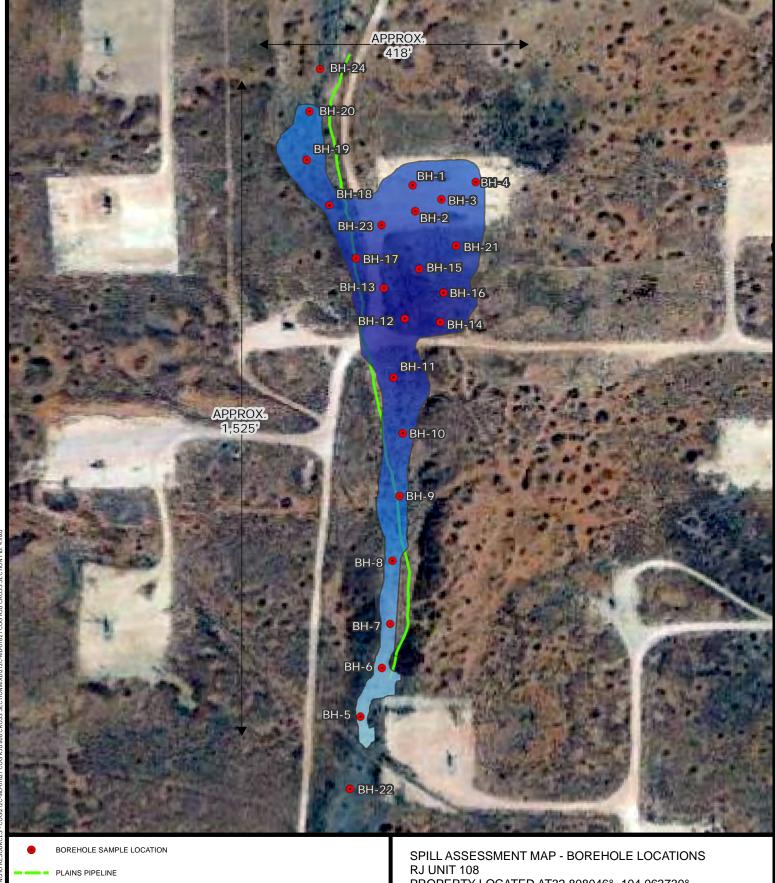
OVERSPRAY SPILL AREA



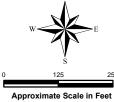
SITE MAP RJ UNIT 108 PROPERTY LOCATED AT32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO







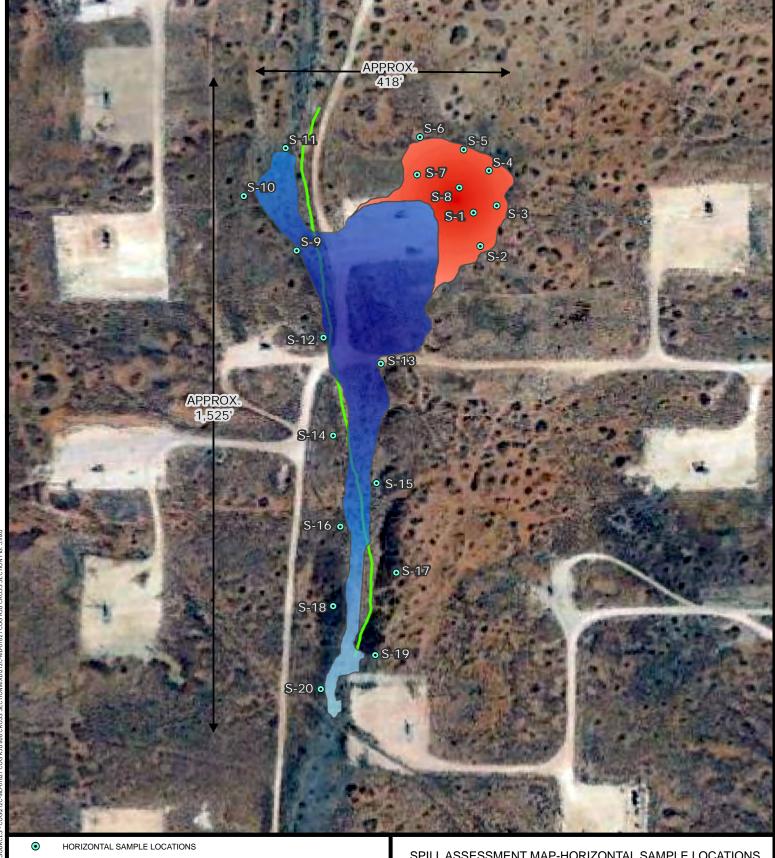
AFFECTED SPILL AREA

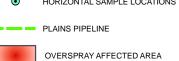


PROPERTY LOCATED AT32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO

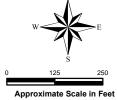








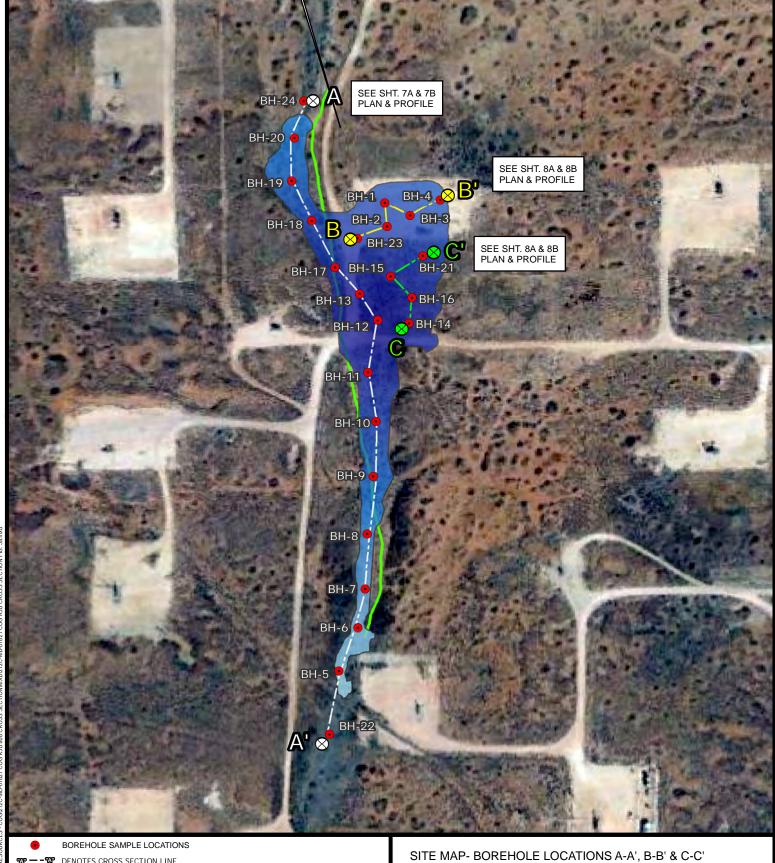
AFFECTED SPILL AREA

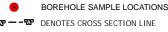


SPILL ASSESSMENT MAP-HORIZONTAL SAMPLE LOCATIONS RJ UNIT 108 PROPERTY LOCATED AT32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO



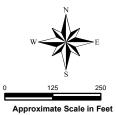






PLAINS PIPELINE

AFFECTED SPILL AREA

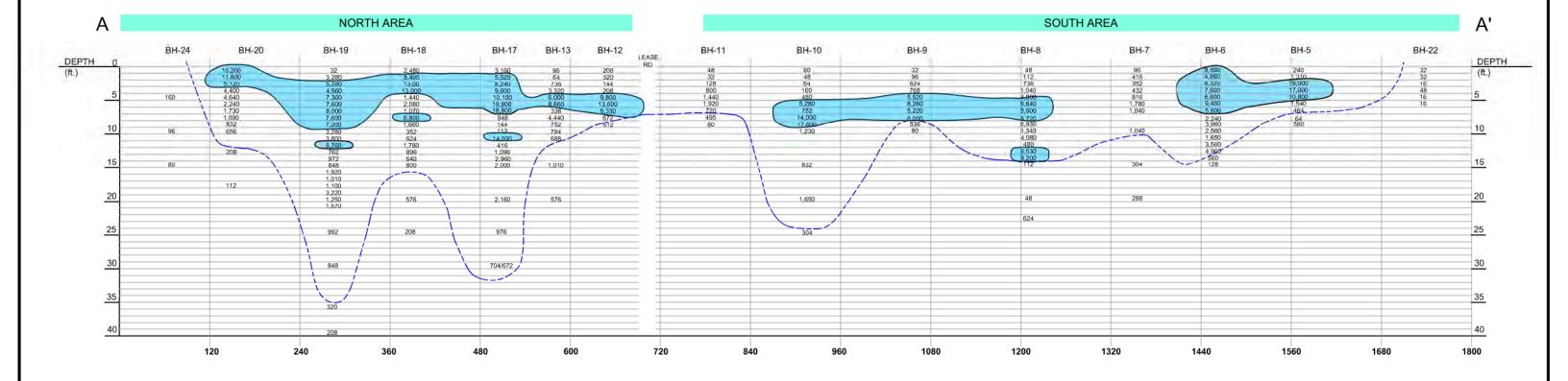


RJ UNIT 108 PROPERTY LOCATED AT32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO





CROSS SECTION A-A'



HORIZ. SCALE 1"=120'

LEGEND

>5000 PPM CHLORIDE ---- >600 PPM CHLORIDE

NOTES:







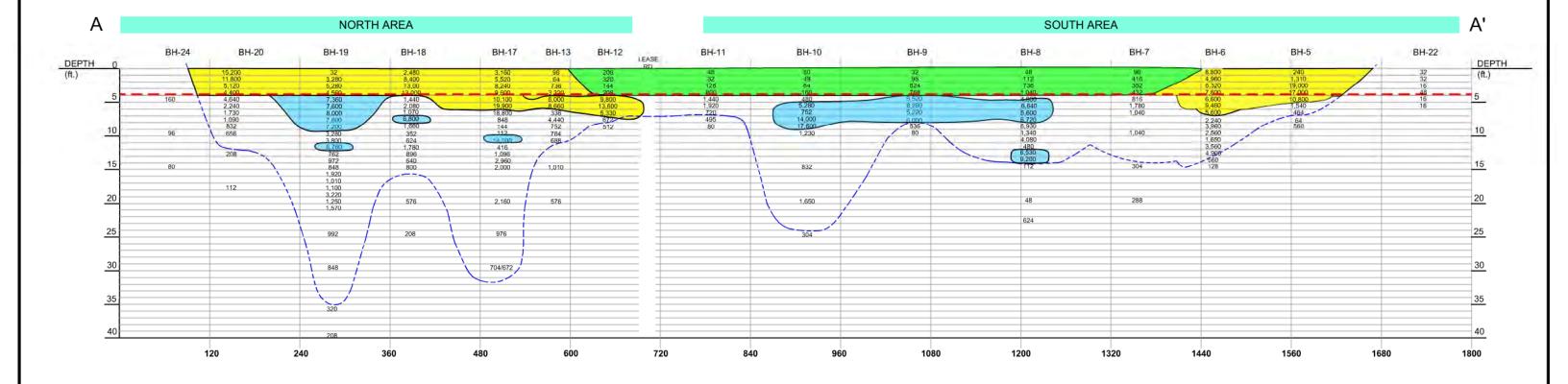
FIGURE 7A CROSS SECTION A-A' CHLORIDE CONCENTRATION DISTRIBUTION(mg/kg

RJ UNIT 108 PROPERTY LOCATED AT 32.808046°,-104.063730°

EDDY COUNTY, NEW MEXICO

Project: 212C-MD-01821 Date: 8/20/2019

CROSS SECTION A-A'



HORIZ. SCALE 1"=120'

LEGEND PROPOSED EXCAVATION PROPOSED EXCAVATION / SAMPLE / PLACE MATERIAL BACK INTO EXCAVATED AREA >5000 PPM CHLORIDE ---- >600 PPM CHLORIDE - LINER

NOTES:





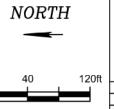
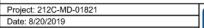
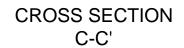


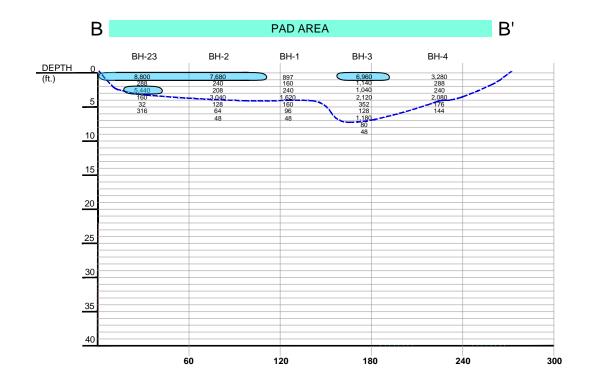
FIGURE 7B CROSS SECTION A-A' PROPOSED EXCAVATION MAP RJ UNIT 108 PROPERTY LOCATED AT 32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO

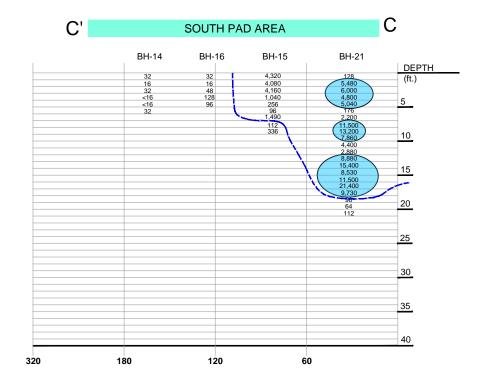
Project: 212C-MD-01821



CROSS SECTION B-B'







HORIZ. SCALE 1"=60'

>5000 PPM CHLORIDE >600 PPM CHLORIDE

LEGEND

NOTES:





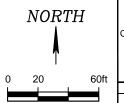


FIGURE 8A

CROSS SECTION B-B' & C-C' CHLORIDE CONCENTRATION DISTRIBUTION(mg/kg) RJ UNIT 108

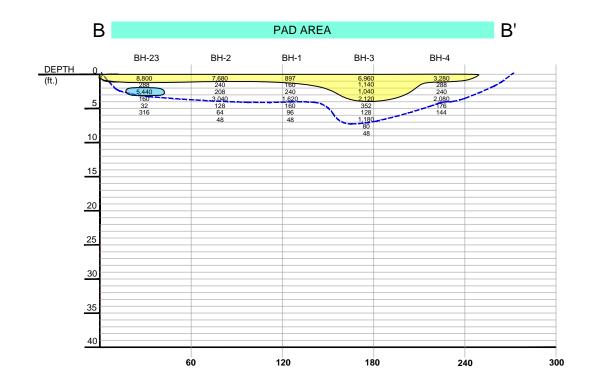
PROPERTY LOCATED AT 32.808046°,-104.063730° EDDY COUNTY, NEW MEXICO

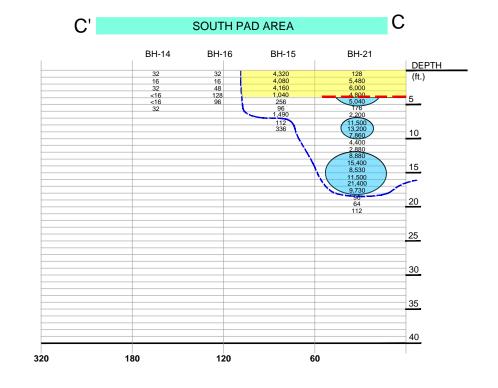
Project: 212C-MD-01821 Date: 8/19/2019 File: FIGURE 5B



CROSS SECTION B-B'







HORIZ. SCALE 1"=60'

PROPOSED EXCAVATION

>5000 PPM CHLORIDE
>600 PPM CHLORIDE
LINER

NOTES:





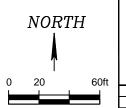
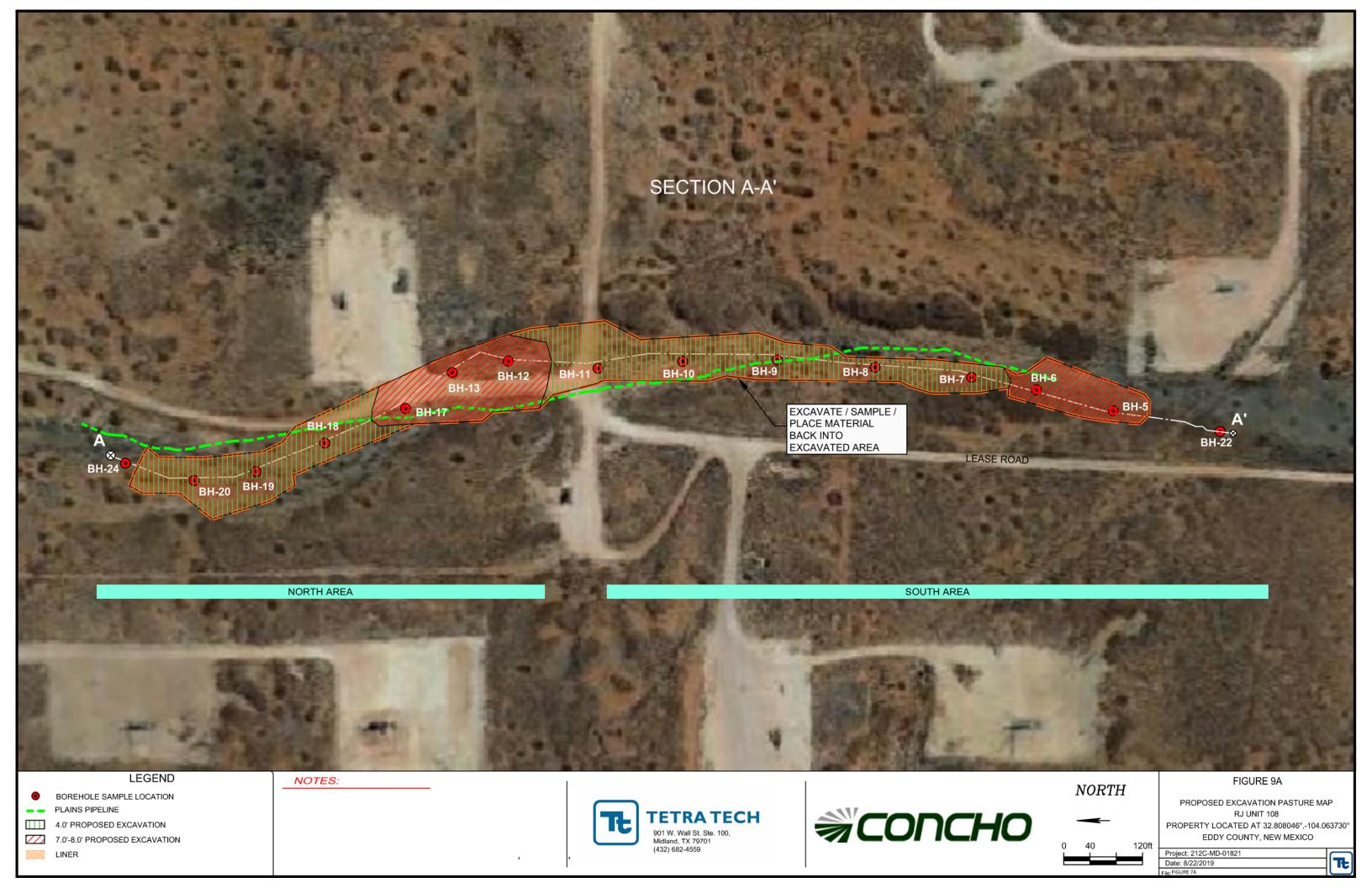


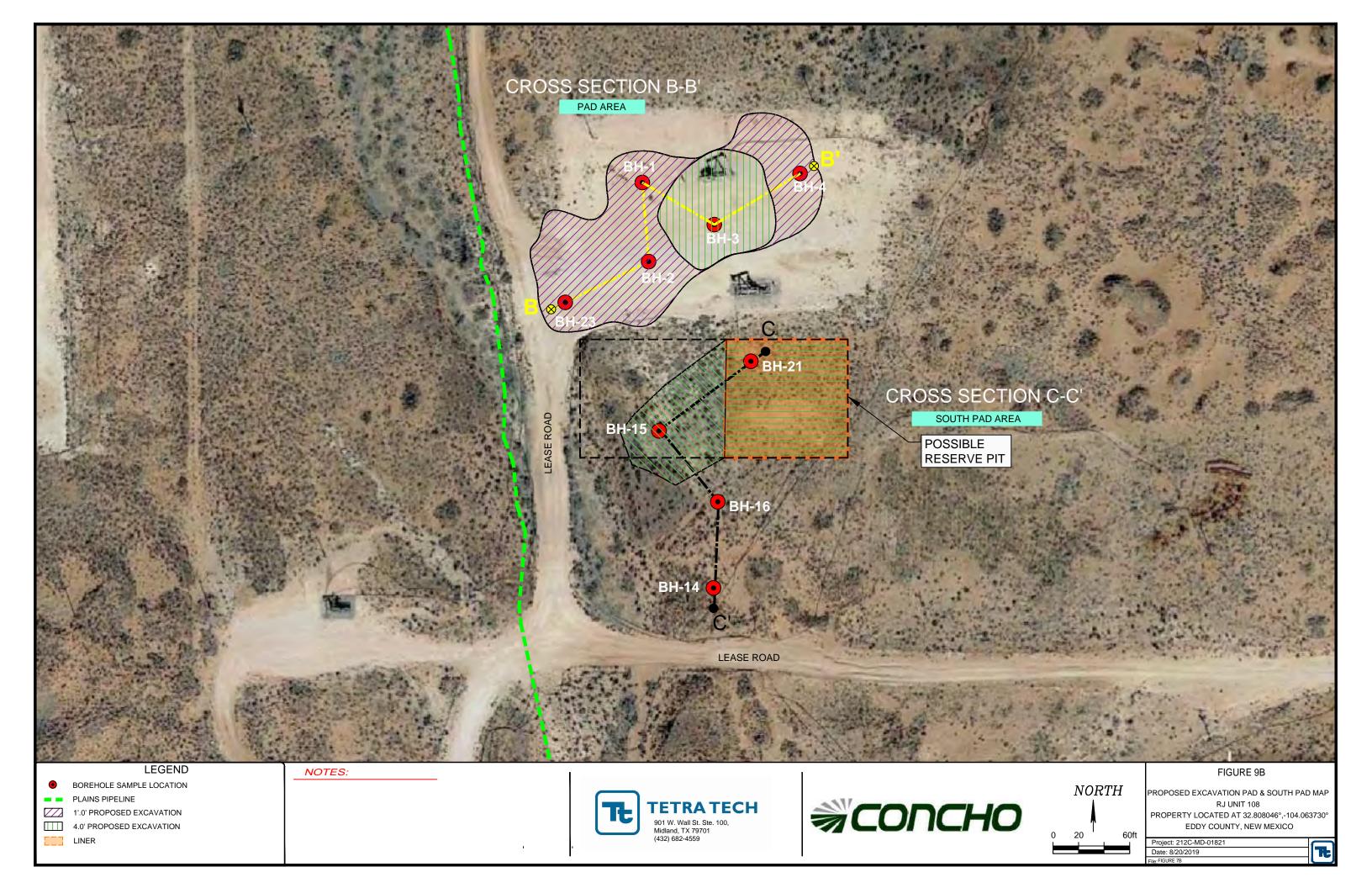
FIGURE 8B
CROSS SECTION B-B' & C-C'
PROPOSED EXCAVATION MAP
RJ UNIT 108

RJ UNIT 108
PROPERTY LOCATED AT 32.808046°,-104.063730°
EDDY COUNTY, NEW MEXICO

Project: 212C-MD-01821
Date: 8/19/2019
File: FIGURE 6B

C-MD-01821 019





Tables

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

0 1 15		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	7/1/2019	0-1	Χ		-	-	-	-	-	-	-	-	-	896
	"	2	Χ		-	-	-	-	-	-	-	-	-	160
	"	3	Χ		-	-	-	-	-	-	-	-	-	240
	"	4	Χ		-	-	-	-	-	-	-	-	-	1,620
	"	5	Χ		-	-	-	-	-	-	-	1	-	160
	"	6	Χ		-	-	-	-	-	-	-	-	-	96.0
	"	7	Χ		-	-	-	-	-	-	-	-	-	48.0
BH-2	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	7,680
	"	2	Х		-	-	-	-	-	-	-	-	-	240
	"	3	Χ		-	-	-	-	-	-	-	-	-	208
	"	4	Χ		-	-	-	-	-	-	-	-	-	3,040
	"	5	Х		-	-	-	-	-	-	-	-	-	128
	"	6	Χ		-	-	-	-	-	-	-	-	-	64.0
	II .	7	Х		-	-	-	-	-	-	-	-	-	48.0
BH-3	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	6,960
	"	2	Х		-	-	-	-	-	-	-	-	-	1,140
	"	3	Χ		-	-	-	-	-	-	-	-	-	1,040
	"	4	Χ		-	-	-	-	-	-	-	-	-	2,120
	"	5	Χ		-	-	-	-	-	-	-	-	-	352
	"	6	Χ		-	-	-	-	-	-	-	-	-	128
	"	7	Х		-	-	-	-	-	-	-	-	-	1,180
	"	8	Χ		-	-	-	-	-	-	-	-	-	80.0
	II .	9	Х		-	-	-	-	-	-	-	-	-	48.0
BH-4	7/1/2019	0-1	Х		-	_	_	_	_	_	_	-		3,280
	"	2	X		-	-	-	-	-	-	-	-	-	288
	"	3	X			-	-	_	-	-	-	-	-	240
	"	4	X		-	-	-	-	-	-	-	-	-	2,080
	"	5	X		-	-	-	-	-	-	-	-	-	176
		6	X		_	_	_	_	_	_	-	-	_	144

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-5	7/2/2019	0-1	Х		-	-	-	-	-	-	-	•	-	240
	"	2	Χ		-	-	-	-	-	-	Ē	•	-	1,310
	"	3	Х		-	-	-	-	-	-	i	ı	-	19,000
	"	4	Χ		-	-	-	-	-	-	-	-	-	17,000
	"	5	Χ		-	-	-	-	-	-	-	-	-	10,800
	"	6	Χ		-	-	-	-	-	-	i	1	-	1,540
	· ·	7	Χ		-	-	-	-	-	-	-	-	-	464
	"	8	Х		-	-	-	-	-	-	i	1	-	64.0
	п	9	Х		-	-	-	-	-	-	-	-	-	560
BH-6	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	8,800
	"	2	Х		-	-	-	-	-	-	-	-	-	4,960
	"	3	Х		-	-	-	-	-	-	i	ı	-	6,320
	"	4	Χ		-	-	-	-	-	-	-	-	-	7,600
	"	5	Χ		-	-	-	-	-	-	-	-	-	6,600
	"	6	Χ		-	-	-	-	-	-	-	-	-	9,460
	· ·	7	Χ		-	-	-	-	-	-	-	-	-	2,240
	"	8	Х		-	-	-	-	-	-	-	-	-	3,960
	"	9	Х		-	-	-	-	-	-	=	-	-	2,560
	"	10	Х		-	1	-	-	-	-	ı	ï	-	1,650
	"	11	Х		-	1	-	-	-	-	ı	ï	-	3,560
	II .	12	Х		-	-	-	-	-	-	-	-	-	4,960
	m m	13	Х		-	-	-	-	-	-	-	-	-	560
	"	14	Х		-	-	-	-	-	-	-	-	-	96.0
	"	15	Х		-	-	-	-	-	-	-	-	-	128

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-7	7/2/2019	0-1	Х		-	-	-	-	-	-	-	•	-	96.0
	"	2	Χ		-	-	-	-	-	-	-	1	-	416
	"	3	Χ		-	-	-	-	-	-	-	-	-	352
	"	4	Х		-	-	-	-	-	-	-	-	-	432
	"	5	Χ		-	-	-	-	-	-	-	-	-	816
	"	6	Χ		-	-	-	-	-	-	-	-	-	1,780
	"	7	Χ		-	-	-	-	-	-	-	-	-	1,040
BH-7	7/10/2019	5	Х		-	-	-	-	-	-	-	-	-	5,680
	"	10	Χ		-	-	-	-	-	-	-	•	-	400
	"	15	Χ		-	-	-	-	-	-	-	ı	-	304
	"	20	Χ		-	-	-	-	-	-	-	-	-	288
BH-8	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	48.0
	"	2	Х		-	-	-	-	-	-	-	-	-	112
	"	3	Х		-	-	-	-	-	-	-	-	-	736
	"	4	Χ		-	-	-	-	-	-	-	-	-	1,040
	"	5	Χ		-	-	-	-	-	-	-	-	-	4,800
	"	6	Χ		-	-	-	-	-	-	-	-	-	6,640
	"	7	Χ		-	-	-	-	-	-	-	-	-	5,600
	"	8	Х		-	-	-	-	-	-	-	-	-	6,720
	"	9	Х		-	-	-	-	-	-	-	-	-	6,930
	"	10	Х		-	-	-	-	-	-	-	-	-	1,340
	"	11	Х		-	-	-	-	-	-	-	-	-	4,080
	"	12	Х		-	-	-	-	-	-	-	-	-	480
	"	13	Х		-	-	-	-	-	-	-	-	-	6,530
	"	14	Х		-	-	-	-	-	-	-	•	-	9,200
BH-8	7/10/2019	10	Х		-	-	-	-	-	-	-	-	-	6,800
	"	15	Х		-	-	-	-	-	-	-	-	-	112
	"	20	Х		-	-	-	-	-	-	-	•	-	48.0
	"	25	Х		-	-	-	-	-	-	-	-	-	624

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-9	7/2/2019	0-1	Χ		-	-	-	-	-	-	-	-	-	32.0
	"	2	Χ		-	-	-	-	-	-	-	-	-	96.0
	"	3	Χ		-	-	-	-	-	-	-	-	-	624
	"	4	Χ		-	-	-	-	-	-	-	-	-	768
	"	5	Х		-	-	-	-	-	-	-	ı	-	5,520
	"	6	Χ		-	-	-	-	-	-	-	•	-	8,260
	"	7	Χ		-	-	-	-	-	-	-	ı	-	5,920
	"	8	Х		-	-	-	-	-	-	-	ı	-	6,000
	"	9	Х		-	1	-	-	-	-	-	ï	-	336
	"	10	Х		-	1	-	-	-	-	-	1	-	80.0
BH-10	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	- 1	80.0
	"	2	Χ		-	-	-	-	-	-	-	-	-	48.0
	"	3	Χ		-	-	-	-	-	-	-	-	-	64.0
	"	4	Χ		-	-	-	-	-	-	-	-	-	160
	"	5	Х		-	-	-	-	-	-	-	-	-	480
	"	6	Χ		-	-	-	-	-	-	-	-	-	5,280
	"	7	Χ		-	-	-	-	-	-	-	-	-	752
	"	8	Х		-	-	-	-	-	-	-	-	-	14,000
	"	9	Х		-	-	-	-	-	-	-	-	-	17,600
BH-10	7/10/2019	5	Х		-	-	-	-	-	-	-	-	-	4,240
	"	10	Х		-	-	-	-	-	-	-	-	-	1,230
	"	15	Χ		-	-	-	-	-	-	-	-	-	832
	"	20	Χ		-	-	-	-	-	-	-	-	-	1,650
	"	25	Χ		-	-	-	-	-	-	-	-	-	304

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-11	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	48.0
	"	2	Х		-	-	-	-	-	-	-	-	-	32.0
	"	3	Χ		-	-	-	-	-	-	-	•	-	128
	"	4	Χ		-	-	-	-	-	-	-	-	-	800
	"	5	Χ		-	-	-	-	-	-	-	-	-	1,440
	"	6	Χ		-	-	-	-	-	-	-	-	-	1,920
	"	7	Χ		-	-	-	-	-	-	-	-	-	720
	"	8	Х		-	-	-	-	-	-	-	-	-	496
	"	9	Х		-	-	-	-	-	-	-	1	-	80.0
BH-12	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	208
	"	2	Х		-	-	-	-	-	-	-	-	-	320
	"	3	Х		-	-	-	-	-	-	-	-	-	144
	"	4	Χ		-	-	-	-	-	-	-	-	-	208
	"	5	Х		-	-	-	-	-	-	-	-	-	9,800
	"	6	Χ		-	-	-	-	-	-	-	•	-	13,600
	"	7	Χ		-	-	-	-	-	-	-	-	-	5,330
	"	8	Х		-	-	-	-	-	-	-	-	-	672
	"	9	Х		-	-	-	-	-	-	-	1	-	512
BH-13	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	96.0
	"	2	Х		-	-	-	-	-	-	-	-	-	64.0
	"	3	Χ		-	-	-	-	-	-	-	•	-	736
	"	4	Х		-	-	-	-	-	-	-	-	-	3,320
	"	5	Х		-	-	-	-	-	-	-	-	-	6,000
	"	6	Χ		-	-	-	-	-	-	-	-	-	8,660
	"	7	Χ		-	-	-	-	-	-	-	-	-	336
	"	8	Х		-	-	-	-	-	-	-	-	-	4,400
	II .	9	Х		-	-	-	-	-	-	-	1	-	752
	II .	10	Х		-	-	-	-	-	-	-	-	-	784
	"	11	Х		-	-	-	-	-	-	-	-	-	688
BH-13	7/10/2019	10	Х		-	-	-	-	-	-	-	-	-	320
	"	15	Χ		-	-	-	-	-	-	-	-	-	1,010
	"	20	Х		-	-	-	-	-	-	-	-	-	576

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-14	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	32.0
	"	2	Х		-	-	-	-	-	-	-	-	-	16.0
	"	3	Х		-	-	-	-	-	-	-	-	-	32.0
	"	4	Χ		-	-	-	-	-	-	-	-	-	<16.0
	"	5	Χ		-	-	-	-	-	-	-	-	-	<16.0
	"	6	Х		-	-	-	-	-	-	-	-	-	32.0
BH-14	7/11/2019	5	Х		-	-	-	-	-	-	-	-	-	48.0
	"	10	Х		-	-	-	-	-	-	-	-	-	48.0
	"	15	Х		-	-	-	-	-	-	-	-	-	48.0
BH-15	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	4,320
	п	2	Х		-	-	-	-	-	-	-	-	-	4,080
	п	3	Х		-	-	-	-	-	-	-	-	-	4,160
	"	4	Х		-	-	-	-	-	-	-	-	-	1,040
	"	5	Х		-	-	-	-	-	-	-	-	-	256
	"	6	Х		-	-	-	-	-	-	-	-	-	96.0
	"	7	Χ		-	-	-	-	-	-	-	-	-	1,490
	"	8	Х		-	-	-	-	-	-	-	-	-	112
	"	9	Х		-		-	-	-	-	-	-	-	336
BH-16	7/1/2019	0-1	Х		_	_	-	_	-	-	-	-	-	32.0
	"	2	Х		-	-	-	-	-	-	-	-	-	16.0
	"	3	Х		-	-	-	-	-	-	-	-	-	48.0
	п	4	Х		-	-	-	-	-	-	-	-	-	128
	п	5	Х		-	-	-	-	-	-	-	-	-	128
	"	6	Х		-	-	-	-	-	-	-	-	-	96.0
BH-16	7/11/2019	5	Х		-	-	-	-	-	-	-	-	-	64.0
	"	10	Х		-	-	-	-	-	-	-	-	-	3,920
	"	15	Х		-	-	-	-	-	-	-	-	-	496
	"	20	Х		-	-	-	-	-	-	-	-	-	2,200
	"	25	Χ		-	-	-	-	-	-	-	-	-	592

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg
BH-17	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	3,160
	"	2	Χ		-	-	-	-	-	-	-	-	-	5,520
	II II	3	Χ		-	-	-	-	-	-	-	1	-	8,240
	"	4	Х		-	-	-	-	-	-	-	-	-	9,600
	II II	5	X		-	-	-	-	-	-	-	-	-	10,100
	"	6	Х		-	-	-	-	-	-	-	-	-	19,800
	II .	7	Χ		-	-	-	-	-	-	-	-	-	18,800
	"	8	Х		-	-	-	-	-	-	-	-	-	848
	"	9	Х		-	-	-	-	-	-	-	-	-	144
	"	10	Х		-	-	-	-	-	-	-	-	-	112
	"	11	Х		-	-	-	-	-	-	-	-	-	14,000
	"	12	Х		-	1	-	-	-	-	-	ı	-	416
	"	13	Х		-	-	-	-	-	-	-	-	-	1,090
	ıı	14	Х		-	-	-	-	-	-	-	-	-	2,960
BH-17	7/11/2019	10	Х		-	-	-	-	-	-	-	-	-	1,520
	"	15	Х		-	-	-	-	-	-	-	-	-	2,000
	"	20	Х		-	-	-	-	-	-	-	-	-	2,160
	"	25	Χ		-	-	-	-	-	-	-	-	-	976
	"	30	Χ		-	-	-	-	-	-	-	-	-	704
				·		·		Re-re	un	•		•		672

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

		Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-18	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	2,480
	"	2	Χ		-	-	-	-	-	-	-	-	-	8,400
	"	3	Χ		-	-	-	-	-	-	-	-	-	13,000
	"	4	Χ		-	-	-	-	-	-	-	-	-	8,130
	"	5	Χ		-	-	-	-	-	-	-	-	-	1,440
	"	6	Χ		-	-	-	-	-	-	-	-	-	2,080
	"	7	Χ		-	-	-	-	-	-	-	-	-	1,070
	"	8	Х		-	-	-	-	-	-	-	-	-	6,800
	"	9	Х		-	-	-	-	-	-	-	-	-	1,360
	"	10	Х		-	-	-	-	-	-	-	-	-	352
	"	11	Х		-	-	-	-	-	-	-	-	-	624
	"	12	Х		-	-	-	-	-	-	-	-	-	1,790
	"	13	Х		-	-	-	-	-	-	-	-	-	896
	"	14	Х		-	-	-	-	-	-	-	-	-	640
	II .	15	Х		-	-	-	-	-	-	-	-	-	800
BH-18	7/11/2019	15	Х		-	-	-	-	-	-	-	-	-	960
	"	20	Х		-	-	-	-	-	-	-	-	-	576
	"	25	Х		-	-	-	-	-	-	-	-	-	208

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

0I- ID	0l- D :	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chlorid
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg
BH-19	7/2/2019	0-1	Х		-	-	-	-	-	-	-	•	-	32
	"	2	Χ		-	-	-	-	-	-	-	-	-	3,280
	II .	3	Х		-	-	-	-	-	-	-	-	-	5,200
	"	4	Х		-	-	-	-	-	-	-	-	-	4,560
	"	5	Χ		-	-	-	-	-	-	-	-	-	7,360
	"	6	Χ		-	-	-	-	-	-	-	-	-	7,600
	"	7	Х		-	-	-	-	-	-	-	-	-	8,000
	"	8	Х		-	-	-	-	-	-	-	-	-	7,600
	"	9	Х		-	-	-	-	-	-	-	-	-	7,200
	"	10	Х		-	-	-	-	-	-	-	-	-	3,280
	"	11	Х		-	-	-	-	-	-	-	ı	-	3,800
	"	12	Х		-	-	-	-	-	-	-	-	-	6,260
	"	13	Х		-	-	-	-	-	-	-	-	-	752
	"	14	Х		-	-	-	-	-	-	-	-	-	976
	"	15	Х		-	-	-	-	-	-	-	-	-	848
	"	16	Х		-	-	-	-	-	-	-	-	-	1,920
	"	17	Х		-	-	-	-	-	-	-	-	-	1,010
	"	18	Х		-	-	-	-	-	-	-	-	-	1,100
	"	19	Х		-	-	-	-	-	-	-	-	-	3,320
	"	20	Х		-	-	-	-	-	-	-	-	-	1,250
	"	21	Х		-	-	-	-	-	-	-	-	-	1,570
BH-19	7/12/2019	20	Х		-	-	-	-	-	-	-	-	-	736
	"	25	Х		-	-	-	-	-	-	-	-	-	992
	"	30	Х		-	-	-	-	-	-	-	-	-	848
	"	35	Х		-	-	-	-	-	-	-	-	-	320
	п	40	Х		-	-	-	-	-	-	-	-	-	208

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

Sample ID		Sample	Soil	Status	TPH (mg/kg)			•	Benzene		Ethlybenzene	Xylene	Total BTEX	Chloride
	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	Toluene (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-20	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	15,200
	"	2	Χ		-	-	-	-	-	-	-	-	-	11,800
	"	3	Χ		-	-	-	-	-	-	-	•	-	5,120
	"	4	Χ		-	-	-	-	-	-	-	-	-	4,400
	"	5	Χ		-	-	-	-	-	-	-	-	-	4,640
	"	6	Χ		-	-	-	-	-	-	-	-	-	2,240
	"	7	Х		-	-	-	-	-	-	-	-	-	1,730
	"	8	Х		-	-	-	-	-	-	-	-	-	1,09
	"	9	Х		-	-	-	-	-	-	-	1	-	832
	"	10	Х		-	-	-	-	-	-	-	-	-	944
	"	11	Х		-	-	-	-	-	-	-	-	-	736
	"	12	Х		-	-	-	-	-	-	-	•	-	656
BH-20	7/12/2019	10	Х		-	-	-	-	-	-	-	-	-	1,14
	"	15	Х		-	-	-	-	-	-	-	-	-	208
	"	20	Χ		-	-	-	-	-	-	-	ı	-	112
BH-21	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	128
	"	2	Х		-	-	-	-	-	-	-	-	-	5,84
	"	3	Х		-	-	-	-	-	-	-	-	-	6,00
	"	4	Х		-	-	-	-	-	-	-	-	-	4,80
	"	5	Х		-	-	-	-	-	-	-	-	-	5,04
	"	6	Х		-	-	-	-	-	-	-	-	-	176
	"	7	Х		-	-	-	-	-	-	-	-	-	2,22
	"	8	Х		-	-	-	-	-	-	-	-	-	11,50
	"	9	Х		-	-	-	-	-	-	-	-	-	13,20
	"	10	Х		-	-	-	-	-	-	-	-	-	7,86
	"	11	Χ		-	-	-	-	-	-	-	-	-	4,40
	"	12	Х		-	-	-	-	-	-	-	-	-	2,88
	"	13	Х		-	-	-	-	-	-	-	-	-	8,88
	II .	14	Х		-	-	-	-	-	-	-	-	-	15,40
	ıı .	15	Х		-	-	-	-	-	-	-	-	-	8,53
	"	16	Х		-	-	-	-	-	-	-	-	-	11,50
	"	17	Х		-	-	-	-	-	-	-	-	-	21,40
	"	18	Х		-	-	-	-	-	-	-	-	-	9,73
BH-21	7/10/2019	15	Х		-	-	-	-	-	-	-	1	-	496
	"	20	Х		-	-	-	-	-	-	-	1	-	96.0
	"	25	Х		-	-	-	-	-	-	-	-	-	64.0
	"	30	Х		-	-	-	-	-	-	-	-	-	112

Table 2 COG RJ Unit #108 (4.17.19) Eddy County, New Mexico

Sample ID		Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
	Sample Date		In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-22	7/2/2019	0-1	Х		-	-	-	-	-	-	-	-	-	32.0
	"	2	Х		-	-	-	-	-	-	-	-	-	32.0
	"	3	Х		-	-	-	-	-	-	-	-	-	16.0
	"	4	Х		-	-	-	-	-	-	-	-	-	48.0
	"	5	Х		-	-	-	-	-	-	-	-	-	16.0
	"	6	Χ		-	-	-	-	-	-	-	-	-	16.0
ВН-23	7/1/2019	0-1	Х		-	-	-	-	-	-	-	-	-	8,800
	"	2	Х		-	-	-	-	-	-	-	-	-	288
	"	3	Х		-	-	-	-	-	-	-	-	-	80.0
	"	4	Х			-	-	-	-	-	-	-	-	5,440
	"	5	Χ		-	-	-	-	-	-	-	-	-	160
	"	6	Χ			-	-	-	-	-	-	1	-	32.0
	"	7	Χ		-	-	-	-	-	-	-	-	-	16.0
BH-24	7/12/2019	5	Х		-	-	-	-	-	-	-	-	- 1	160
	"	10	Х		-	-	-	-	-	-	-	-	-	96.0
	"	15	Х		-	-	-	-	-	-	-	-	-	80.0

(-) Not Analyzed
Proposed Excavation Depths
Proposed Liner Depth

Photos





View South - Pad Area



View North - Pad Area





View South - South Pad Area



Looking South - South Pad Area





View South - South Pad Area



Looking North - South Pad Area





View South - North Pasture Area



View North - North Pasture Area

COG Operating LLC RJ Unit 108 Eddy County, New Mexico





View North - North Pasture Area



View South - South Pasture Area

COG Operating LLC RJ Unit 108 Eddy County, New Mexico





View South - South Pasture Area



View South - South Pasture Area

COG Operating LLC RJ Unit 108 Eddy County, New Mexico





View North - South Pasture Area



View South - South Pasture Area

Appendix A

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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Nam	e				Contact Te	elephone	
Contact emai	1				Incident #	(assigned by OCD	9)
Contact mail	ing address				•		
			Location	ı of R	elease So	ource	
T. die 1			Locuion	. 01 11			
Latitude			(NAD 83 in de	lecimal de	Longitude _ grees to 5 decin	nal places)	
Site Name					Site Type		
Date Release	Discovered				API# (if app	olicable)	
Unit Letter	Section	Township	Range		Coun	nty	
Surface Owner	:: State	☐ Federal ☐ Tr	ibal 🔲 Private ((Name:)
			Nature an	d Vol	umo of I	Dalansa	
Crude Oil	Material	(s) Released (Select all Volume Released		ch calculat	ions or specific	Volume Reco	e volumes provided below) overed (bbls)
Produced	Water	Volume Release	d (bbls)			Volume Reco	overed (bbls)
		Is the concentrate		chloride	in the	Yes N	No
Condensa	te	produced water > Volume Release				Volume Reco	overed (bbls)
Natural G		Volume Release				Volume Reco	
Other (des		Volume/Weight		de units)	<u> </u>		ght Recovered (provide units)
_ `	,		4	ĺ			Q
Cause of Rele	ease						

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence re	mediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial e	fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notifient. The acceptance of a C-141 report by the O ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature:	Opeant	Date:
email:		Telephone:
OCD Only		
Received by:	nation Intamente	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
□ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel □ Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps □ Laboratory data including chain of custody	ls.

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a t	he best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have hreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature: 1778	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation point ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ☐ Proposed schedule for remediation (note if remediation plan times)	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: _ /4 7 }	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Appendix B

Water Well Data Average Depth to Groundwater (ft) RJ Unit #108 Eddy County, New Mexico

	16 S	outh	28	B East			16 S	outh	2	9 East			16 S	outh	3	0 East	
6 sia	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14 220	13	18	17	16	15	14	13
19	20	0.4	22	23	24	19	20	21	22	dry 23	24	19	20	21	22	23	24
19	20	21 61	22	23	24	110	20	2	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	17 S	outh	28	B East	<u>, </u>		17 Sc	outh	2	9 East			17 S	outh	3	0 East	
6	5	4	3	2 28	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
		<u> </u>		80				ļ.,						4			
19 224	20	21	22 45 79	23	24	19	20	21	22 76	23	24	19	20 80	21	22	23	24
30	29	28	27	26	25	30	29 210 208	28	27 Site	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
				258						153							
	18 S	outh	28	B East			18 S	outh	2	9 East			18 S	outh	3	0 East	
6	5	4	3	2 55	1	6	5	4	3	2	1	6	5	4	3	2	1
7 49	8 81	108	10	11	12	7	8	9	10 9	5 11	12	7	8	9	10	11	12
	69																
18	17	16	15 80	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23 44	24
20. 42=	20	226	107	100	105	20	200	00	07	00	158	20	00	000	07	200	0.5
30 137	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
				35			32	33	1	1	1						36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- **143** NMOCD Groundwater map well location

USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

▼ Geographic Area: Groundwater ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News RSS icon

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 324935104040401

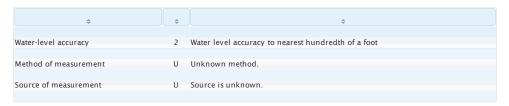
 $\mathbf{Minimum\ number\ of\ levels} = 1$

Save file of selected sites to local disk for future upload

USGS 324935104040401 17S.29E.22.112311

Eddy County, New Mexico Latitude 32°49'35", Longitude 104°04'04" NAD27 Land-surface elevation 3,541 feet above NAVD88 This well is completed in the San Andres Limestone (313SADR) local aquifer.





Questions about sites/data? Feedback on this web site Automated retrievals

Data Tips

Subscribe for system changes

Accessibility Plug-Ins FOIA Privacy Policies and Notices

USA gov logo
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2019-07-11 14:34:21 EDT

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

replaced, O orphaned, C the file is

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

no ronger serves a	C the m	e is	(4-										
water right file.)	closed)		(qu	arters	are	smalle	est to la	argest)	(NAD8	3 UTM in meters)	(In feet)	
		OD											
		Sub-										,	Water
OD Number	Code	basin	County	41	4	Sec	Tws	Rng		D	epthWellDept	hWater (olumn
RA 11807 POD1		RA	ED	1 2	2 3	22	17S	29E	5873 0	3 31585	131	7	55

Average Depth to Water:

Minimum Depth: 7 feet 7 feet

7 feet

Maximum Depth:

Record Count: 1

LSS Search:

Township: 17S

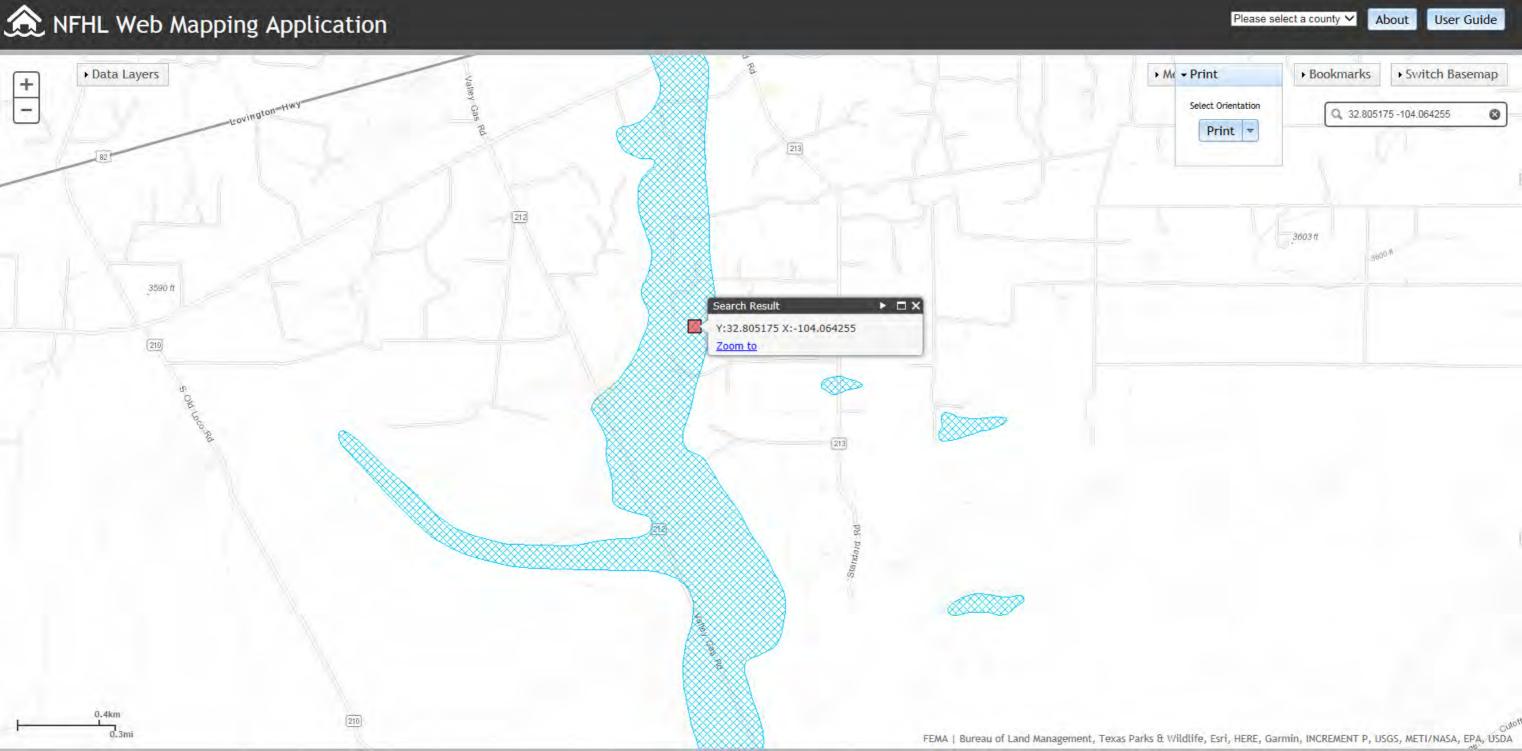
Range: 29E

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

7/11/19 12:25 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





Appendix C



BH-7

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No. : <u>212C-MD-01821</u>

Location: Eddy County, New Mexico

Coordinates : 32.805175 -104.064255

Elevation : NA

Date: Wednesday, July 10, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Brown Silty/Sand (Soft) Brown Silty/Clay with Caliche (soft) nodues (Loose) Dense Layer of Caliche Interbedded Layers of Caliche with clay Brown Soft Sand w/ Caliche nodules Interedded gravel layer with Fine sands Dense layer of gravel with cobble with loose fine brown sand Red Fine sand with gravel & cobble (0.5" to 1.5") Total Depth Drilled: 20'	1,200 500	Titration Test	50		Soil Description Comments:	Chloride Field Test (ppm)	Titration Test
45				+				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-8

Soil Drilling Log with Field Testing Results

Project Name: COG RJU Unit #108 Date: Wednesday, July 10, 2019

Project No.: 212C-MD-01821 Sampler: Conner Moehring

Location: Eddy County, New Mexico

 Coordinates :
 32.805175 -104.064255
 Driller :
 Scarborough Drilling

 Elevation :
 NA

 Method :
 Air Rotary

Fine Brown Silty Sand (loose) 55 Fine Brown Silty Sandwith Clay (loose) Fine Sand with interbedded gravel Fine Brown Sand with Gravel (loose) 55 60 65 70 Brown Fine sand with gravel (loose) 97 120 70 Damp Gravel with Clay (loose) 425 400 75	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
30 — Comments:	10		Fine Brown Silty Sandwith Clay (loose) Fine Sand with interbedded gravel Fine Brown Sand with Gravel (loose) Brown Fine sand with gravel (loose)	5,610 105	120	55		Comments:		(ppm)

^{*} H.O. = Heavy Odor

dor * L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



BH-10

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

 $\textbf{Coordinates:} \ \ \, \underline{32.805717\text{-}104.063998}$

Elevation: NA

Date: Wednesday, July 10, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
		Fine Brown Silty Sand with clay (loose)			50				
5		Fine Brown Silty Sand with clay (loose) Damp Green Fine Sand (loose)	4,510		55				
10		Fine Brown/Green Silty Sandwith Clay (Moist) (loose)	1,110		60				
15		Coarse Brown Sand with Clay (Damp) (loose)	600		65				
20		Brown Coasre sand with Clay & gravel (Loose)	1,720	840	70				
25		Layer Gypsum (Dense) Fine Gypsum with Sand (Dense)	860	400	75				
10		Total Depth Drilled: 25'			+		Comments:		
35					+				
40 +					+				
45					‡ ‡ ‡				
±					#				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-13

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No. : <u>212C-MD-01821</u>

Location: Eddy County, New Mexico

Coordinates: 32.807680 -104.0664151

Elevation : NA

Date: Wednesday, July 10, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	/L Soil D€	escription	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
°Ŧſ	Fine Brown Silty Sand	(loose)			50				
5	Fine Brown Silty Sand	(loose)			55				
10	Brown Clay with Silty	Sand (loose)	760		60				
15	Brown Clay nodules w		970		65				
#1	Damp Brown Clay noo	dules (Dense)			#				
20	Brown Clay Nodules (I	Dense)	286	240	70				
10					75				
30	Total Dept	h Drilled: 20'			‡ ‡	c	Comments:		
#1					#				
35					#				
ŦI					Ŧ				
40					#				
					#				
45					#				
45					+				
50									

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-14

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates: 32.807518 -104.063798

Elevation : NA

Date: Thursday, July 11, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
		Red Silty/ Sand (Dry) (Loose)			50				
10		Fine Red Silty/Sand Grey Sand with Clay	49		55				
10		Grey / Brown sand with Clay (Loose) Red Clay nodules intermittent	107		60				
15 —		Red Clay nodules with fine sand with gypsum.	900	240	65				
20					70				
25					75				
30		Total Depth Drilled: 15'			‡ ‡		Comments:		
35					‡ ‡ +				
40					-				
45					+				
45					+				
₅₀ <u></u> <u></u> L					土				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



BH-16

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates: 32.807635 -104.063770

Elevation : NA

Date: Thursday, July 11, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WI	. Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
	Red Silty/ Sand (Dry) (Loose)			50				
5	Fine Red Silty/Sand Grey Sand with Clay	150		55				
10	Grey / Brown sand with Clay (Loose) Red Clay nodules intermittent	2,710		60				
10	Red sand with Clay nodules Dense	942	1,200	65				
20	Black/Brown Silty sand with clay Dense	2,160	O.L	70				
25	Dense layer of gravel Dense Layer of Gravel and sand	322	120	75				
30	Total Depth Drilled: 25'			+++++++++++++++++++++++++++++++++++++++	Comn	nents:		
45				+				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-18

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates: 32.805113 -104.064490

Elevation: NA

Date: Thursday, July 11, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
		Red Silty/ Sand (Mosit) (Loose)			50				
10		Red Silty/ Clay with gravel (Mosit) (Loose) Dense layer of clay with gravel (Moist)			60				
		Red Clay nodules very moist and dense Very dense layer of clay			‡				
15		Moist Dense layer of red clay nodules wth gravel Fine Red Silty sand with clay nodules (Loose) (Dry)			65				
20		Fine Brown Silty Sand with Clay (Loose) Fine Powdery redish silty sand (Loose) with clay	695	510	70				
30 - 35 - 35		Fine Powdery redish silty sand (Loose) with clay	372	240	75		Comments:		
<u> </u>		Total Depth: 25'			-				
45					± + + + + + + + + + + + + + + + + + + +				
50					\pm				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-19

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates : 32.806234 -104.064098

Elevation: NA

Date: Friday, July 12, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
0 🛨		Loose Brown Sand			50				
5		Loose Brown Silty sand with clay (Loose) (Dry) Layer of Gravel			55				
10		Red clay nodules with gravel (Dense) (Slightly Damp) ine red silty sand (Loose) (Dry)			60				
10		Fine Red sand with Clay and Gravel (Dense) (Slightly damp) Dense layer of Gravel			65				
20 =		Fine Red Sand with clay and gravel (Dense) (Slightly damp) Large Cobble (1"-2") tan sand (dense) (Dry)	642		70				
25		Pink Sand with Gravel & cobble (1" - 2") (Dense slightly damp)	962		75				
30		Fine Brown silty sand with Gravel (loose) (Slightly damp)	772	800	‡		Comments:		
35		Gravel with Red isg Fine sand (Loose) (Slightly damp)	420		#				
40 ===		Gravel with Red Sand (Loosing pressure)	290	240	#				
45		Total Depth: 40'			Ŧ				
50					圭				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



BH-20

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates: 32.808745 -104.064615

Elevation : NA

Date : Friday, July 12, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
		Red loose sand (Dry)			50				
5		Fine loose red clay with red sand (Dense) (Slightly damp)			55				
10		Moderatly damp red clay nodules (Dense)	725		60				
士		Grey Sand with clay (Dense) (Dry)			土				
10		Grey gravel with Cobble With clay and sand (Dry)(Loose)	315		65 =-				
20		Fine grey sand with gravel (Loose)(Dry)	306	240	70				
25		Total Depth: 20'			75				
#					#				
30 —					‡ ‡		Comments:		
35					#				
#					‡				
40					#				
45 ——					#				
45					+				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



BH-21

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No.: 212C-MD-01821

Location: Eddy County, New Mexico

Coordinates: 32.807838 -104.063779

Elevation : NA

Date: Wednesday, July 10, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	/L Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL Soil Description	Chloride Field Test (ppm) Field Titration Test (ppm)
	Fine Brown Silty Sand (loose)			50		
5	Fine Brown Silty Sand with clay nodules (loose)			55		
10	Brown Clay with Silty Sand (loose)			60		
15	Fine Black/Brown silty sand (Loose)	460		65		
20	Brown/Black Fine silt/ sand with clay (Loose)	266		70		
#1	Interedded layers of gravel			#1		
10	Gravel with Dense clay	180	240	75		
30 🛨	Brown Dense clay with sand	270	240	#	Comments:	
35	Total Depth Drilled: 30'					

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining



Borehole ID: BH-24

Soil Drilling Log with Field Testing Results

Project Name : COG RJU Unit #108

Project No. : <u>212C-MD-01821</u>

Location: Eddy County, New Mexico

Coordinates : 32.808947 -104.064519

Elevation : NA

Date: Friday, July 12, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Red sand with clay Red Clay nodules with silty sand (Dry) (loose) Dense layer of Gypsum (Dense) (Dry) Gypsum with gravel (Dense) Gypsum Layer Total Depth:15'	Field Test	Titration Test	50		Soil Description Comments:	Chloride Field Test (ppm)	Titration Test
45				+ + + + + + + + + + + + + + + + + + +				

^{*} H.O. = Heavy Odor

^{*} H.S. = Heavy Staining

^{*} L.O. = Low Odor

^{*} L.S. = Low Staining

Appendix D

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-1 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 9:00:00 AM

 Lab ID:
 1905679-001
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	12000	60	Ε	mg/Kg	20	5/16/2019 11:31:12 AM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/16/2019 9:08:50 PM	44940
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 9:08:50 PM	44940
Surr: DNOP	126	70-130		%Rec	1	5/16/2019 9:08:50 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/17/2019 10:16:56 AM	44917
Surr: BFB	82.1	73.8-119		%Rec	1	5/17/2019 10:16:56 AM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	5/17/2019 10:16:56 AM	44917
Toluene	ND	0.049		mg/Kg	1	5/17/2019 10:16:56 AM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/17/2019 10:16:56 AM	44917
Xylenes, Total	ND	0.098		mg/Kg	1	5/17/2019 10:16:56 AM	44917
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	5/17/2019 10:16:56 AM	44917

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

Qualifiers:

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

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

Page 1 of 0

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-1 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 9:05:00 AM

 Lab ID:
 1905679-002
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	260	60		mg/Kg	20	5/16/2019 12:08:25 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/16/2019 9:33:22 PM	44940
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 9:33:22 PM	44940
Surr: DNOP	151	70-130	S	%Rec	1	5/16/2019 9:33:22 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/17/2019 11:27:22 AM	44917
Surr: BFB	76.2	73.8-119		%Rec	1	5/17/2019 11:27:22 AM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	5/17/2019 11:27:22 AM	44917
Toluene	ND	0.049		mg/Kg	1	5/17/2019 11:27:22 AM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/17/2019 11:27:22 AM	44917
Xylenes, Total	ND	0.098		mg/Kg	1	5/17/2019 11:27:22 AM	44917
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	5/17/2019 11:27:22 AM	44917

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

Qualifiers:

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

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

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Date Reported:

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

RJ Unit 108 **Collection Date:** 5/9/2019 9:50:00 AM **Project:** 1905679-008 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	1900	60		mg/Kg	20	5/16/2019 12:45:39 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 9:57:55 PM	44940
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/16/2019 9:57:55 PM	44940
Surr: DNOP	159	70-130	S	%Rec	1	5/16/2019 9:57:55 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/17/2019 11:50:44 AM	44917
Surr: BFB	78.4	73.8-119		%Rec	1	5/17/2019 11:50:44 AM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/17/2019 11:50:44 AM	44917
Toluene	ND	0.050		mg/Kg	1	5/17/2019 11:50:44 AM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/17/2019 11:50:44 AM	44917
Xylenes, Total	ND	0.099		mg/Kg	1	5/17/2019 11:50:44 AM	44917
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	5/17/2019 11:50:44 AM	44917

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

Qualifiers:

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

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

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-2 2'

Project: RJ Unit 108
 Collection Date: 5/9/2019 10:00:00 AM

 Lab ID: 1905679-009
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	160	60		mg/Kg	20	5/16/2019 12:58:03 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2019 10:22:36 PM	44940
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/16/2019 10:22:36 PM	44940
Surr: DNOP	131	70-130	S	%Rec	1	5/16/2019 10:22:36 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/17/2019 12:14:15 PM	44917
Surr: BFB	78.9	73.8-119		%Rec	1	5/17/2019 12:14:15 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/17/2019 12:14:15 PM	44917
Toluene	ND	0.050		mg/Kg	1	5/17/2019 12:14:15 PM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/17/2019 12:14:15 PM	44917
Xylenes, Total	ND	0.10		mg/Kg	1	5/17/2019 12:14:15 PM	44917
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	5/17/2019 12:14:15 PM	44917

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

Qualifiers:

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

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

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-3 0-1'

RJ Unit 108 **Collection Date:** 5/9/2019 11:00:00 AM **Project:** 1905679-015 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	7400	60	Ε	mg/Kg	20	5/16/2019 1:35:17 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/16/2019 10:47:07 PM	44940
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 10:47:07 PM	44940
Surr: DNOP	166	70-130	S	%Rec	1	5/16/2019 10:47:07 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/17/2019 12:37:46 PM	44917
Surr: BFB	79.8	73.8-119		%Rec	1	5/17/2019 12:37:46 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/17/2019 12:37:46 PM	44917
Toluene	ND	0.049		mg/Kg	1	5/17/2019 12:37:46 PM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/17/2019 12:37:46 PM	44917
Xylenes, Total	ND	0.099		mg/Kg	1	5/17/2019 12:37:46 PM	44917
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	5/17/2019 12:37:46 PM	44917

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

Qualifiers:

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

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

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-3 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 11:10:00 AM

 Lab ID:
 1905679-016
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	920	60		mg/Kg	20	5/16/2019 1:47:41 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 11:11:43 PM	44940
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 11:11:43 PM	44940
Surr: DNOP	131	70-130	S	%Rec	1	5/16/2019 11:11:43 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/17/2019 1:01:10 PM	44917
Surr: BFB	80.1	73.8-119		%Rec	1	5/17/2019 1:01:10 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/17/2019 1:01:10 PM	44917
Toluene	ND	0.050		mg/Kg	1	5/17/2019 1:01:10 PM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/17/2019 1:01:10 PM	44917
Xylenes, Total	ND	0.10		mg/Kg	1	5/17/2019 1:01:10 PM	44917
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	5/17/2019 1:01:10 PM	44917

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

Qualifiers:

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

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

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Analytical Report

Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-3 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 11:20:00 AM

 Lab ID:
 1905679-017
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	650	60	mg/Kg	20	5/15/2019 1:02:28 AM	l 44918

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

Qualifiers:

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

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

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Analytical Report

Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-3 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 11:30:00 AM

 Lab ID:
 1905679-018
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	1800	60	mg/Kg	20	5/16/2019 7:35:58 PM	44983

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-3 6'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 11:40:00 AM

 Lab ID:
 1905679-019
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	160	59	mg/Kg	20	5/17/2019 7:18:45 PM	l 45015

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-3 8'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 11:50:00 AM

 Lab ID:
 1905679-020
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 170
 60
 mg/Kg
 20
 5/17/2019 8:20:48 PM
 45015

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-3 10'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 12:00:00 PM

 Lab ID:
 1905679-021
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

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

Qualifiers:

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

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

porting Limit Page 11 of 0

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-4 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 12:10:00 PM

 Lab ID:
 1905679-022
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1400	60		mg/Kg	20	5/16/2019 2:00:06 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/16/2019 11:36:21 PM	44940
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/16/2019 11:36:21 PM	44940
Surr: DNOP	135	70-130	S	%Rec	1	5/16/2019 11:36:21 PM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2019 4:43:39 PM	44917
Surr: BFB	89.2	73.8-119		%Rec	1	5/16/2019 4:43:39 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 4:43:39 PM	44917
Toluene	ND	0.050		mg/Kg	1	5/16/2019 4:43:39 PM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2019 4:43:39 PM	44917
Xylenes, Total	ND	0.10		mg/Kg	1	5/16/2019 4:43:39 PM	44917
Surr: 4-Bromofluorobenzene	87.8	80-120		%Rec	1	5/16/2019 4:43:39 PM	44917

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia **Client Sample ID:** BH-4 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 12:20:00 PM

 Lab ID:
 1905679-023
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	170	60	mg/Kg	20	5/16/2019 2:37:20 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/17/2019 12:01:06 AM	44940
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/17/2019 12:01:06 AM	44940
Surr: DNOP	99.5	70-130	%Rec	1	5/17/2019 12:01:06 AM	44940
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/16/2019 5:06:21 PM	44917
Surr: BFB	88.1	73.8-119	%Rec	1	5/16/2019 5:06:21 PM	44917
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/16/2019 5:06:21 PM	44917
Toluene	ND	0.050	mg/Kg	1	5/16/2019 5:06:21 PM	44917
Ethylbenzene	ND	0.050	mg/Kg	1	5/16/2019 5:06:21 PM	44917
Xylenes, Total	ND	0.099	mg/Kg	1	5/16/2019 5:06:21 PM	44917
Surr: 4-Bromofluorobenzene	84.8	80-120	%Rec	1	5/16/2019 5:06:21 PM	44917

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

Qualifiers:

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

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

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-5 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 1:30:00 PM

 Lab ID:
 1905679-029
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	26000	60	Ε	mg/Kg	20	5/16/2019 2:49:45 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/17/2019 12:25:36 AM	44940
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/17/2019 12:25:36 AM	44940
Surr: DNOP	103	70-130		%Rec	1	5/17/2019 12:25:36 AM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2019 5:28:58 PM	44917
Surr: BFB	83.6	73.8-119		%Rec	1	5/16/2019 5:28:58 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 5:28:58 PM	44917
Toluene	ND	0.050		mg/Kg	1	5/16/2019 5:28:58 PM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2019 5:28:58 PM	44917
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2019 5:28:58 PM	44917
Surr: 4-Bromofluorobenzene	80.0	80-120	S	%Rec	1	5/16/2019 5:28:58 PM	44917

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-5 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 1:40:00 PM

 Lab ID:
 1905679-030
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	9700	60	Ε	mg/Kg	20	5/16/2019 3:02:10 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/17/2019 1:14:35 AM	44940
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/17/2019 1:14:35 AM	44940
Surr: DNOP	103	70-130		%Rec	1	5/17/2019 1:14:35 AM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2019 5:51:39 PM	44917
Surr: BFB	88.1	73.8-119		%Rec	1	5/16/2019 5:51:39 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/16/2019 5:51:39 PM	44917
Toluene	ND	0.049		mg/Kg	1	5/16/2019 5:51:39 PM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2019 5:51:39 PM	44917
Xylenes, Total	ND	0.098		mg/Kg	1	5/16/2019 5:51:39 PM	44917
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	5/16/2019 5:51:39 PM	44917

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

Qualifiers:

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

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

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Analytical ReportLab Order **1905679**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-5 3'

Project: RJ Unit 108 **Collection Date:** 5/9/2019 1:50:00 PM

Lab ID: 1905679-031 **Matrix:** SOIL **Received Date:** 5/14/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 4200
 60
 E
 mg/Kg
 20
 5/15/2019 1:27:17 AM
 44918

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-5 4'

Project: RJ Unit 108 **Collection Date:** 5/9/2019 2:00:00 PM Lab ID: 1905679-032 Matrix: SOIL **Received Date: 5/14/2019 9:10:00 AM**

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	3200	60	Е	mg/Kg	20	5/17/2019 10:24:46 A	M 44991

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

Qualifiers:

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

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

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Analytical ReportLab Order **1905679**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-5 6'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 2:10:00 PM

 Lab ID:
 1905679-033
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	60	mg/Kg	20	5/16/2019 8:13:12 PM	44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia **Client Sample ID:** BH-6 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 2:40:00 PM

 Lab ID:
 1905679-036
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	40000	60	Ε	mg/Kg	20	5/16/2019 3:14:35 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/17/2019 1:39:16 AM	44940
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/17/2019 1:39:16 AM	44940
Surr: DNOP	101	70-130		%Rec	1	5/17/2019 1:39:16 AM	44940
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2019 6:14:21 PM	44917
Surr: BFB	89.9	73.8-119		%Rec	1	5/16/2019 6:14:21 PM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 6:14:21 PM	44917
Toluene	ND	0.049		mg/Kg	1	5/16/2019 6:14:21 PM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2019 6:14:21 PM	44917
Xylenes, Total	ND	0.098		mg/Kg	1	5/16/2019 6:14:21 PM	44917
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	5/16/2019 6:14:21 PM	44917

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia **Client Sample ID:** BH-6 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 2:50:00 PM

 Lab ID:
 1905679-037
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	7700	60	Ε	mg/Kg	20	5/16/2019 3:26:59 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 4:46:56 PM	44941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 4:46:56 PM	44941
Surr: DNOP	99.5	70-130		%Rec	1	5/16/2019 4:46:56 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2019 2:55:02 AM	44917
Surr: BFB	86.8	73.8-119		%Rec	1	5/16/2019 2:55:02 AM	44917
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 2:55:02 AM	44917
Toluene	ND	0.049		mg/Kg	1	5/16/2019 2:55:02 AM	44917
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2019 2:55:02 AM	44917
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2019 2:55:02 AM	44917
Surr: 4-Bromofluorobenzene	87.3	80-120		%Rec	1	5/16/2019 2:55:02 AM	44917

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-6 3'

RJ Unit 108 **Collection Date:** 5/9/2019 3:00:00 PM Project: 1905679-038 Matrix: SOIL **Received Date: 5/14/2019 9:10:00 AM** Lab ID:

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	3000	60	Е	mg/Kg	20	5/15/2019 1:39:42 AM	44918

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-6 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 3:10:00 PM

 Lab ID:
 1905679-039
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	12000	60	Е	mg/Kg	20	5/17/2019 11:14:24 A	M 44991

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-6 6'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 3:20:00 PM

 Lab ID:
 1905679-040
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	2100	59	mg/Kg	20	5/16/2019 8:25:37 PM	44983

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-6 8'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 3:30:00 PM

 Lab ID:
 1905679-041
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	7500	59	Е	mg/Kg	20	5/17/2019 8:45:38 PM	45015

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-6 10'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 3:40:00 PM

 Lab ID:
 1905679-042
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	110	60	mg/Kg	20	5/17/2019 8:58:02 PM	45015

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-7 0-1'

RJ Unit 108 **Collection Date:** 5/9/2019 3:50:00 PM **Project:** 1905679-043 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	23000	60	Ε	mg/Kg	20	5/16/2019 3:39:24 PM	44963
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/17/2019 12:15:41 PM	44950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/17/2019 12:15:41 PM	44950
Surr: DNOP	95.8	70-130		%Rec	1	5/17/2019 12:15:41 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2019 3:17:53 AM	44917
Surr: BFB	84.8	73.8-119		%Rec	1	5/16/2019 3:17:53 AM	44917
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 3:17:53 AM	44917
Toluene	ND	0.050		mg/Kg	1	5/16/2019 3:17:53 AM	44917
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2019 3:17:53 AM	44917
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2019 3:17:53 AM	44917
Surr: 4-Bromofluorobenzene	84.3	80-120		%Rec	1	5/16/2019 3:17:53 AM	44917

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

Qualifiers:

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

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit
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Analytical ReportLab Order **1905679**

Lab Order **190567**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-7 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:00:00 PM

 Lab ID:
 1905679-044
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses Result RL Qual Units DF Date Analyzed Batch

 EPA METHOD 300.0: ANIONS
 Analyst:
 MRA

 Chloride
 18000
 60 E mg/Kg
 20 5/15/2019 1:52:07 AM
 44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-7 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:10:00 PM

 Lab ID:
 1905679-045
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	11000	60	Е	mg/Kg	20	5/15/2019 2:04:32 AM	44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-7 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:15:00 PM

 Lab ID:
 1905679-046
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	7000	60	Е	mg/Kg	20	5/17/2019 11:26:48 A	M 44991

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BH-7 6'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:20:00 PM

 Lab ID:
 1905679-047
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	280	60	mg/Kg	20	5/16/2019 8:38:02 PM	44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-8 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:35:00 PM

 Lab ID:
 1905679-050
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	22000	60	Ε	mg/Kg	20	5/16/2019 12:09:12 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/16/2019 5:59:49 PM	44941
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/16/2019 5:59:49 PM	44941
Surr: DNOP	96.2	70-130		%Rec	1	5/16/2019 5:59:49 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 9:53:07 AM	44922
Surr: BFB	88.2	73.8-119		%Rec	1	5/15/2019 9:53:07 AM	44922
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 9:53:07 AM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 9:53:07 AM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 9:53:07 AM	44922
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2019 9:53:07 AM	44922
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	5/15/2019 9:53:07 AM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-8 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:40:00 PM

 Lab ID:
 1905679-051
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	16000	60	Ε	mg/Kg	20	5/16/2019 12:21:37 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 6:24:17 PM	44941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 6:24:17 PM	44941
Surr: DNOP	98.7	70-130		%Rec	1	5/16/2019 6:24:17 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 11:01:35 AM	44922
Surr: BFB	86.9	73.8-119		%Rec	1	5/15/2019 11:01:35 AM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 11:01:35 AM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 11:01:35 AM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 11:01:35 AM	44922
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2019 11:01:35 AM	44922
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	5/15/2019 11:01:35 AM	44922

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

Qualifiers:

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

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

Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-8 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:45:00 PM

 Lab ID:
 1905679-052
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	5300	60	Е	mg/Kg	20	5/15/2019 2:16:57 AM	44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-8 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 4:50:00 PM

 Lab ID:
 1905679-053
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	33000	60	Е	mg/Kg	20	5/17/2019 11:39:13	AM 44991

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Date Reported:

Client Sample ID: BH-8 6'

Project: RJ Unit 108 **Collection Date:** 5/9/2019 4:55:00 PM Lab ID: 1905679-054 Matrix: SOIL Received Date: 5/14/2019 9:10:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed **Batch**

EPA METHOD 300.0: ANIONS Analyst: MRA 20 5/16/2019 8:50:27 PM 44983 Chloride ND 60 mg/Kg

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

Qualifiers:

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

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

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Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-9 0-1'

Project: RJ Unit 108 Collection Date: 5/9/2019 5:10:00 PM

Lab ID: 1905679-057 **Matrix:** SOIL **Received Date:** 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	33000	60	Ε	mg/Kg	20	5/16/2019 12:34:01 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/16/2019 6:48:53 PM	44941
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/16/2019 6:48:53 PM	44941
Surr: DNOP	102	70-130		%Rec	1	5/16/2019 6:48:53 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 12:09:51 PM	44922
Surr: BFB	86.2	73.8-119		%Rec	1	5/15/2019 12:09:51 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 12:09:51 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 12:09:51 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 12:09:51 PM	44922
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 12:09:51 PM	44922
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	5/15/2019 12:09:51 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-9 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:15:00 PM

 Lab ID:
 1905679-058
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	8800	60	Ε	mg/Kg	20	5/16/2019 12:46:25 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/16/2019 7:38:19 PM	44941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/16/2019 7:38:19 PM	44941
Surr: DNOP	96.7	70-130		%Rec	1	5/16/2019 7:38:19 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 12:32:39 PM	44922
Surr: BFB	87.5	73.8-119		%Rec	1	5/15/2019 12:32:39 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 12:32:39 PM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 12:32:39 PM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 12:32:39 PM	44922
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2019 12:32:39 PM	44922
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	5/15/2019 12:32:39 PM	44922

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BH-9 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:20:00 PM

 Lab ID:
 1905679-059
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-9 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:25:00 PM

 Lab ID:
 1905679-060
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	/st: MRA
Chloride	13000	60	Е	mg/Kg	20	5/17/2019 12:16:27	PM 44991

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

Qualifiers:

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

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

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20 5/16/2019 9:02:51 PM 44983

Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Chloride

Client Sample ID: BH-9 6'

mg/Kg

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:30:00 PM

 Lab ID:
 1905679-061
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

180

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Analyst: MRA

60

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-10 0-1'

RJ Unit 108 **Collection Date:** 5/9/2019 5:45:00 PM **Project:** 1905679-064 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	14000	59	Ε	mg/Kg	20	5/16/2019 12:58:50 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 8:03:06 PM	44941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/16/2019 8:03:06 PM	44941
Surr: DNOP	107	70-130		%Rec	1	5/16/2019 8:03:06 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 12:55:23 PM	44922
Surr: BFB	88.1	73.8-119		%Rec	1	5/15/2019 12:55:23 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 12:55:23 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 12:55:23 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 12:55:23 PM	44922
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 12:55:23 PM	44922
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	5/15/2019 12:55:23 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-10 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:50:00 PM

 Lab ID:
 1905679-065
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	4600	60	Ε	mg/Kg	20	5/16/2019 1:11:14 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/16/2019 8:27:52 PM	44941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/16/2019 8:27:52 PM	44941
Surr: DNOP	126	70-130		%Rec	1	5/16/2019 8:27:52 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 1:18:05 PM	44922
Surr: BFB	86.7	73.8-119		%Rec	1	5/15/2019 1:18:05 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 1:18:05 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 1:18:05 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 1:18:05 PM	44922
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2019 1:18:05 PM	44922
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	5/15/2019 1:18:05 PM	44922

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia **Client Sample ID:** BH-10 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 5:55:00 PM

 Lab ID:
 1905679-066
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	6300	60	E mg/Kg	20	5/15/2019 3:06:35 AM	44918

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

Qualifiers:

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

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

e pH Not In Range ting Limit Page 43 of 0

Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-10 4'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 6:00:00 PM

 Lab ID:
 1905679-067
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 10000
 60
 E
 mg/Kg
 20
 5/17/2019 12:28:51 PM
 44991

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-10 6'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 6:05:00 PM

 Lab ID:
 1905679-068
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	230	60	mg/Kg	20	5/16/2019 9:15:15 PM	1 44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-11 0-1'

Collection Date: 5/9/2019 6:30:00 PM RJ Unit 108 **Project:** 1905679-073 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	17000	60	Ε	mg/Kg	20	5/16/2019 1:23:39 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/16/2019 9:17:21 PM	44941
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/16/2019 9:17:21 PM	44941
Surr: DNOP	110	70-130		%Rec	1	5/16/2019 9:17:21 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2019 1:40:47 PM	44922
Surr: BFB	86.8	73.8-119		%Rec	1	5/15/2019 1:40:47 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 1:40:47 PM	44922
Toluene	ND	0.048		mg/Kg	1	5/15/2019 1:40:47 PM	44922
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2019 1:40:47 PM	44922
Xylenes, Total	ND	0.097		mg/Kg	1	5/15/2019 1:40:47 PM	44922
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	1	5/15/2019 1:40:47 PM	44922

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-11 2'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 6:35:00 PM

 Lab ID:
 1905679-074
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	10000	60	Е	mg/Kg	20	5/15/2019 3:19:00 AM	44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-11 3'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 6:40:00 PM

 Lab ID:
 1905679-075
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	12000	60	Е	mg/Kg	20	5/15/2019 3:31:25 AM	44918

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

Qualifiers:

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

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

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Analytical Report Lab Order 1905679

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-11 4'

Project: RJ Unit 108 **Collection Date:** 5/9/2019 6:45:00 PM Lab ID: 1905679-076 Matrix: SOIL Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	/st: MRA
Chloride	23000	60	Е	mg/Kg	20	5/17/2019 12:41:16 F	PM 44991

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-11 8'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 6:55:00 PM

 Lab ID:
 1905679-078
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	20000	60	Е	mg/Kg	20	5/17/2019 9:10:27 PM	45015

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-11 10'

 Project:
 RJ Unit 108
 Collection Date: 5/9/2019 7:00:00 PM

 Lab ID:
 1905679-079
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	60	mg/Kg	20	5/17/2019 9:22:51 PM	45015

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

Qualifiers:

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

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

Not in Range imit Page 51 of 0

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-12 0-1'

Project: RJ Unit 108
 Collection Date: 5/10/2019 8:10:00 AM

 Lab ID: 1905679-080
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	27000	60	Ε	mg/Kg	20	5/16/2019 1:36:04 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/16/2019 10:06:32 PM	44941
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/16/2019 10:06:32 PM	44941
Surr: DNOP	109	70-130		%Rec	1	5/16/2019 10:06:32 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 2:03:29 PM	44922
Surr: BFB	87.7	73.8-119		%Rec	1	5/15/2019 2:03:29 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 2:03:29 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 2:03:29 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 2:03:29 PM	44922
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 2:03:29 PM	44922
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	5/15/2019 2:03:29 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-12 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:15:00 AM

 Lab ID:
 1905679-081
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	9400	60	Ε	mg/Kg	20	5/16/2019 2:38:07 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2019 10:55:50 PM	44941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/16/2019 10:55:50 PM	44941
Surr: DNOP	120	70-130		%Rec	1	5/16/2019 10:55:50 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 2:26:11 PM	44922
Surr: BFB	86.5	73.8-119		%Rec	1	5/15/2019 2:26:11 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 2:26:11 PM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 2:26:11 PM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 2:26:11 PM	44922
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2019 2:26:11 PM	44922
Surr: 4-Bromofluorobenzene	87.2	80-120		%Rec	1	5/15/2019 2:26:11 PM	44922

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

Qualifiers:

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

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

Lab Order **1905679**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-12 3'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:20:00 AM

 Lab ID:
 1905679-082
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	12000	60	Е	mg/Kg	20	5/15/2019 3:43:50 AN	<i>I</i> 44918

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

Qualifiers:

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

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

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Analytical ReportLab Order **1905679**

Lab Order **190567**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-12 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:25:00 AM

 Lab ID:
 1905679-083
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 14000
 59
 E
 mg/Kg
 20
 5/17/2019 12:53:41 PM
 44991

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

Qualifiers:

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

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

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Analytical ReportLab Order **1905679**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-12 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:30:00 AM

 Lab ID:
 1905679-084
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	/st: MRA
Chloride	21000	60	Е	mg/Kg	20	5/16/2019 10:04:52 F	PM 44983

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-12 8'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:35:00 AM

 Lab ID:
 1905679-085
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	13000	60	Е	mg/Kg	20	5/17/2019 9:35:16 PM	45015

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-12 10'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:40:00 AM

 Lab ID:
 1905679-086
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	4800	60	Е	mg/Kg	20	5/17/2019 9:47:40 PM	l 45015

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-13 0-1'

Project: RJ Unit 108
 Collection Date: 5/10/2019 8:45:00 AM

 Lab ID: 1905679-087
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	22000	60	Ε	mg/Kg	20	5/16/2019 2:50:31 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/17/2019 11:36:31 AM	44941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/17/2019 11:36:31 AM	44941
Surr: DNOP	105	70-130		%Rec	1	5/17/2019 11:36:31 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 3:34:25 PM	44922
Surr: BFB	92.4	73.8-119		%Rec	1	5/15/2019 3:34:25 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 3:34:25 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 3:34:25 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 3:34:25 PM	44922
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2019 3:34:25 PM	44922
Surr: 4-Bromofluorobenzene	87.9	80-120		%Rec	1	5/15/2019 3:34:25 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-13 2'

RJ Unit 108 **Collection Date:** 5/10/2019 8:50:00 AM **Project:** 1905679-088 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	11000	60	Ε	mg/Kg	20	5/16/2019 3:02:56 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	: JME
Diesel Range Organics (DRO)	69	9.4		mg/Kg	1	5/17/2019 12:25:10 PM	44941
Motor Oil Range Organics (MRO)	470	47		mg/Kg	1	5/17/2019 12:25:10 PM	44941
Surr: DNOP	112	70-130		%Rec	1	5/17/2019 12:25:10 PM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 3:57:11 PM	44922
Surr: BFB	86.5	73.8-119		%Rec	1	5/15/2019 3:57:11 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 3:57:11 PM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 3:57:11 PM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 3:57:11 PM	44922
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2019 3:57:11 PM	44922
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	5/15/2019 3:57:11 PM	44922

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-13 3'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 8:55:00 AM

 Lab ID:
 1905679-089
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	12000	60	Е	mg/Kg	20	5/15/2019 3:56:15 AM	44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-13 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:00:00 AM

 Lab ID:
 1905679-090
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q)ual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	3800	60	Е	mg/Kg	20	5/17/2019 1:06:05 PM	44991

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

Qualifiers:

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

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

nple pH Not In Range
porting Limit Page 62 of 0

Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-13 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:05:00 AM

 Lab ID:
 1905679-091
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	yst: MRA
Chloride	ND	60	mg/Kg	20	5/16/2019 10:17:17 F	PM 44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-14 0-1'

RJ Unit 108 Collection Date: 5/10/2019 9:20:00 AM **Project:** 1905679-094 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	17000	59	Ε	mg/Kg	20	5/17/2019 1:18:30 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2019 12:09:33 AM	44941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2019 12:09:33 AM	44941
Surr: DNOP	104	70-130		%Rec	1	5/17/2019 12:09:33 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 4:42:39 PM	44922
Surr: BFB	86.6	73.8-119		%Rec	1	5/15/2019 4:42:39 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 4:42:39 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 4:42:39 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 4:42:39 PM	44922
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 4:42:39 PM	44922
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	1	5/15/2019 4:42:39 PM	44922

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

Qualifiers:

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

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit
- Page 64 of 0

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-14 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:25:00 AM

 Lab ID:
 1905679-095
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	13000	61	Ε	mg/Kg	20	5/17/2019 1:30:55 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/17/2019 12:34:09 AM	44941
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/17/2019 12:34:09 AM	44941
Surr: DNOP	109	70-130		%Rec	1	5/17/2019 12:34:09 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 5:05:21 PM	44922
Surr: BFB	88.0	73.8-119		%Rec	1	5/15/2019 5:05:21 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 5:05:21 PM	44922
Toluene	ND	0.049		mg/Kg	1	5/15/2019 5:05:21 PM	44922
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 5:05:21 PM	44922
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2019 5:05:21 PM	44922
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	5/15/2019 5:05:21 PM	44922

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-14 3'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:30:00 AM

 Lab ID:
 1905679-096
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-14 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:35:00 AM

 Lab ID:
 1905679-097
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 28000
 60
 E
 mg/Kg
 20
 5/17/2019 1:43:19 PM
 44991

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-14 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:40:00 AM

 Lab ID:
 1905679-098
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

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

Qualifiers:

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

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

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Lab Order 1905679

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-14 8'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:45:00 AM

 Lab ID:
 1905679-099
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 22000 60 E mg/Kg 20 5/17/2019 10:00:05 PM 45015

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-14 10'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:50:00 AM

 Lab ID:
 1905679-100
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	20000	60	Е	mg/Kg	20	5/17/2019 10:12:30 PI	M 45015

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-15 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 9:55:00 AM

 Lab ID:
 1905679-101
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	15000	60	Ε	mg/Kg	20	5/17/2019 1:55:44 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/17/2019 12:58:39 AM	44941
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 12:58:39 AM	44941
Surr: DNOP	106	70-130		%Rec	1	5/17/2019 12:58:39 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2019 5:28:01 PM	44922
Surr: BFB	88.5	73.8-119		%Rec	1	5/15/2019 5:28:01 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 5:28:01 PM	44922
Toluene	ND	0.048		mg/Kg	1	5/15/2019 5:28:01 PM	44922
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2019 5:28:01 PM	44922
Xylenes, Total	ND	0.096		mg/Kg	1	5/15/2019 5:28:01 PM	44922
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	5/15/2019 5:28:01 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-15 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:00:00 AM

 Lab ID:
 1905679-102
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	3100	60	Ε	mg/Kg	20	5/17/2019 2:08:08 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/17/2019 1:23:11 AM	44941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/17/2019 1:23:11 AM	44941
Surr: DNOP	104	70-130		%Rec	1	5/17/2019 1:23:11 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2019 5:50:41 PM	44922
Surr: BFB	87.1	73.8-119		%Rec	1	5/15/2019 5:50:41 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 5:50:41 PM	44922
Toluene	ND	0.048		mg/Kg	1	5/15/2019 5:50:41 PM	44922
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2019 5:50:41 PM	44922
Xylenes, Total	ND	0.097		mg/Kg	1	5/15/2019 5:50:41 PM	44922
Surr: 4-Bromofluorobenzene	86.9	80-120		%Rec	1	5/15/2019 5:50:41 PM	44922

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-15 3'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:05:00 AM

 Lab ID:
 1905679-103
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	6400	60	Е	mg/Kg	20	5/15/2019 4:21:03 AM	l 44918

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-15 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:10:00 AM

 Lab ID:
 1905679-104
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	3200	59	Е	mg/Kg	20	5/17/2019 2:45:21 PM	Л 44991

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

Qualifiers:

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

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

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Lab Order 1905679

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BH-15 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:15:00 AM

 Lab ID:
 1905679-105
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	60	mg/Kg	20	5/16/2019 10:42:06 P	M 44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-16 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:30:00 AM

 Lab ID:
 1905679-108
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1100	60		mg/Kg	20	5/17/2019 3:22:35 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2019 1:47:47 AM	44941
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 1:47:47 AM	44941
Surr: DNOP	145	70-130	S	%Rec	1	5/17/2019 1:47:47 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 6:13:19 PM	44922
Surr: BFB	85.1	73.8-119		%Rec	1	5/15/2019 6:13:19 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 6:13:19 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 6:13:19 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 6:13:19 PM	44922
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2019 6:13:19 PM	44922
Surr: 4-Bromofluorobenzene	80.9	80-120		%Rec	1	5/15/2019 6:13:19 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-16 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 10:35:00 AM

 Lab ID:
 1905679-109
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	5/17/2019 3:35:00 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/17/2019 2:12:13 AM	44941
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/17/2019 2:12:13 AM	44941
Surr: DNOP	103	70-130	%Rec	1	5/17/2019 2:12:13 AM	44941
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/15/2019 6:35:59 PM	44922
Surr: BFB	97.2	73.8-119	%Rec	1	5/15/2019 6:35:59 PM	44922
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/15/2019 6:35:59 PM	44922
Toluene	ND	0.049	mg/Kg	1	5/15/2019 6:35:59 PM	44922
Ethylbenzene	ND	0.049	mg/Kg	1	5/15/2019 6:35:59 PM	44922
Xylenes, Total	ND	0.099	mg/Kg	1	5/15/2019 6:35:59 PM	44922
Surr: 4-Bromofluorobenzene	88.3	80-120	%Rec	1	5/15/2019 6:35:59 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:10:00 AM

 Lab ID:
 1905679-115
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	24000	60	Ε	mg/Kg	20	5/17/2019 3:47:24 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/17/2019 2:36:45 AM	44941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/17/2019 2:36:45 AM	44941
Surr: DNOP	104	70-130		%Rec	1	5/17/2019 2:36:45 AM	44941
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 6:58:41 PM	44922
Surr: BFB	88.5	73.8-119		%Rec	1	5/15/2019 6:58:41 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 6:58:41 PM	44922
Toluene	ND	0.050		mg/Kg	1	5/15/2019 6:58:41 PM	44922
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 6:58:41 PM	44922
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 6:58:41 PM	44922
Surr: 4-Bromofluorobenzene	86.7	80-120		%Rec	1	5/15/2019 6:58:41 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:15:00 AM

 Lab ID:
 1905679-116
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	18000	60	Ε	mg/Kg	20	5/17/2019 3:59:49 PM	44991
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/17/2019 12:37:53 PM	44950
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2019 12:37:53 PM	44950
Surr: DNOP	101	70-130		%Rec	1	5/17/2019 12:37:53 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2019 7:21:19 PM	44922
Surr: BFB	88.4	73.8-119		%Rec	1	5/15/2019 7:21:19 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 7:21:19 PM	44922
Toluene	ND	0.048		mg/Kg	1	5/15/2019 7:21:19 PM	44922
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2019 7:21:19 PM	44922
Xylenes, Total	ND	0.097		mg/Kg	1	5/15/2019 7:21:19 PM	44922
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	5/15/2019 7:21:19 PM	44922

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 3'

Project: RJ Unit 108 Collection Date: 5/10/2019 11:20:00 AM Lab ID: 1905679-117 Matrix: SOIL Received Date: 5/14/2019 9:10:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 9700 60 Е mg/Kg 20 5/15/2019 4:45:52 AM 44918

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:30:00 AM

 Lab ID:
 1905679-119
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	33000	60	Е	mg/Kg	20	5/16/2019 10:54:31 P	M 44983

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 8'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:35:00 AM

 Lab ID:
 1905679-120
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	74000	60	Ε	mg/Kg	20	5/17/2019 10:49:44 P	M 45015

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-17 10'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:40:00 AM

 Lab ID:
 1905679-121
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	6000	60 I	E mg/Kg	20	5/17/2019 11:02:09 P	M 45015

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-18 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:45:00 AM

 Lab ID:
 1905679-122
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	42000	60	Ε	mg/Kg	20	5/17/2019 10:47:17 AM	44993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/17/2019 12:59:57 PM	44950
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2019 12:59:57 PM	44950
Surr: DNOP	102	70-130		%Rec	1	5/17/2019 12:59:57 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2019 8:29:30 PM	44922
Surr: BFB	85.3	73.8-119		%Rec	1	5/15/2019 8:29:30 PM	44922
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 8:29:30 PM	44922
Toluene	ND	0.048		mg/Kg	1	5/15/2019 8:29:30 PM	44922
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2019 8:29:30 PM	44922
Xylenes, Total	ND	0.097		mg/Kg	1	5/15/2019 8:29:30 PM	44922
Surr: 4-Bromofluorobenzene	84.8	80-120		%Rec	1	5/15/2019 8:29:30 PM	44922

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-18 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 11:50:00 AM

 Lab ID:
 1905679-123
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	15000	60	Ε	mg/Kg	20	5/17/2019 10:59:42 AM	44993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	TOM
Diesel Range Organics (DRO)	9.5	9.3		mg/Kg	1	5/17/2019 1:44:02 PM	44950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 1:44:02 PM	44950
Surr: DNOP	106	70-130		%Rec	1	5/17/2019 1:44:02 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2019 10:45:24 PM	44925
Surr: BFB	91.1	73.8-119		%Rec	1	5/15/2019 10:45:24 PM	44925
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	5/15/2019 10:45:24 PM	44925
Toluene	ND	0.049		mg/Kg	1	5/15/2019 10:45:24 PM	44925
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2019 10:45:24 PM	44925
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2019 10:45:24 PM	44925
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	5/15/2019 10:45:24 PM	44925

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc. Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-18 3'

RJ Unit 108 Collection Date: 5/10/2019 11:55:00 AM Project: Lab ID: 1905679-124 Matrix: SOIL Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	1800	60	mg/Kg	20	5/15/2019 5:23:06 AM	44918

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-18 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:00:00 PM

 Lab ID:
 1905679-125
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	2200	60	mg/Kg	20	5/17/2019 11:12:06 A	AM 44993

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-18 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:05:00 PM

 Lab ID:
 1905679-126
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	310	61	mg/Kg	20	5/16/2019 11:06:56 F	PM 44983

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-19 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:20:00 PM

 Lab ID:
 1905679-129
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	12000	60	Ε	mg/Kg	20	5/17/2019 11:49:20 AM	44993
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/17/2019 2:05:59 PM	44950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 2:05:59 PM	44950
Surr: DNOP	90.8	70-130		%Rec	1	5/17/2019 2:05:59 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2019 11:53:21 PM	44925
Surr: BFB	87.5	73.8-119		%Rec	1	5/15/2019 11:53:21 PM	44925
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/15/2019 11:53:21 PM	44925
Toluene	ND	0.050		mg/Kg	1	5/15/2019 11:53:21 PM	44925
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2019 11:53:21 PM	44925
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2019 11:53:21 PM	44925
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	5/15/2019 11:53:21 PM	44925

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-19 2'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:25:00 PM

 Lab ID:
 1905679-130
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	22000	60	Ε	mg/Kg	20	5/17/2019 12:01:45 PM	44993
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/17/2019 2:28:03 PM	44950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 2:28:03 PM	44950
Surr: DNOP	99.9	70-130		%Rec	1	5/17/2019 2:28:03 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2019 1:01:28 AM	44925
Surr: BFB	90.8	73.8-119		%Rec	1	5/16/2019 1:01:28 AM	44925
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 1:01:28 AM	44925
Toluene	ND	0.050		mg/Kg	1	5/16/2019 1:01:28 AM	44925
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2019 1:01:28 AM	44925
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2019 1:01:28 AM	44925
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	5/16/2019 1:01:28 AM	44925

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

Qualifiers:

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

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

nple pH Not In Range
porting Limit Page 90 of 0

Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-19 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:35:00 PM

 Lab ID:
 1905679-132
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	/st: MRA
Chloride	40000	61	Е	mg/Kg	20	5/17/2019 11:14:34 F	PM 45015

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-19 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:40:00 PM

 Lab ID:
 1905679-133
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	1500	60	mg/Kg	20	5/17/2019 11:26:58 F	PM 45015

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 0-1'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 12:45:00 PM

 Lab ID:
 1905679-134
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	15000	59	Ε	mg/Kg	20	5/17/2019 12:14:10 PM	44993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2019 2:50:08 PM	44950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 2:50:08 PM	44950
Surr: DNOP	101	70-130		%Rec	1	5/17/2019 2:50:08 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2019 1:24:00 AM	44925
Surr: BFB	94.0	73.8-119		%Rec	1	5/16/2019 1:24:00 AM	44925
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 1:24:00 AM	44925
Toluene	ND	0.050		mg/Kg	1	5/16/2019 1:24:00 AM	44925
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2019 1:24:00 AM	44925
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2019 1:24:00 AM	44925
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	5/16/2019 1:24:00 AM	44925

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

Qualifiers:

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

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

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Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 2'

RJ Unit 108 **Collection Date:** 5/10/2019 12:50:00 PM **Project:** 1905679-135 Received Date: 5/14/2019 9:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	7700	60	Ε	mg/Kg	20	5/16/2019 3:15:20 PM	44964
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	том
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/17/2019 3:34:13 PM	44950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2019 3:34:13 PM	44950
Surr: DNOP	100	70-130		%Rec	1	5/17/2019 3:34:13 PM	44950
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2019 1:46:40 AM	44925
Surr: BFB	94.4	73.8-119		%Rec	1	5/16/2019 1:46:40 AM	44925
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/16/2019 1:46:40 AM	44925
Toluene	ND	0.049		mg/Kg	1	5/16/2019 1:46:40 AM	44925
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2019 1:46:40 AM	44925
Xylenes, Total	ND	0.098		mg/Kg	1	5/16/2019 1:46:40 AM	44925
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	5/16/2019 1:46:40 AM	44925

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

Qualifiers:

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

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

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Lab Order 1905679

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BH-20 3'

RJ Unit 108 **Collection Date:** 5/10/2019 12:55:00 PM Project: Lab ID: 1905679-136 Matrix: SOIL Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	970	60	mg/Kg	20	5/18/2019 12:04:11	AM 44920

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

Qualifiers:

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

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

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Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 4'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 1:00:00 PM

 Lab ID:
 1905679-137
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	21000	60	Е	mg/Kg	20	5/18/2019 12:16:35 A	M 45016

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

Qualifiers:

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

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

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Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 6'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 1:05:00 PM

 Lab ID:
 1905679-138
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	14000	61	Е	mg/Kg	20	5/18/2019 12:29:00 A	M 45016

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

Qualifiers:

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

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

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Lab Order **1905679**Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BH-20 8'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 1:10:00 PM

 Lab ID:
 1905679-139
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	560	60	mg/Kg	20	5/18/2019 12:41:25 A	M 45016

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

Qualifiers:

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

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

Page 98 of 0

Lab Order **1905679**

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 10'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 1:15:00 PM

 Lab ID:
 1905679-140
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	730	59	mg/Kg	20	5/18/2019 1:18:39 AN	<i>l</i> 45016

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

Qualifiers:

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

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

Page 99 of 0

Lab Order 1905679

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Talon Artesia Client Sample ID: BH-20 12'

 Project:
 RJ Unit 108
 Collection Date: 5/10/2019 1:20:00 PM

 Lab ID:
 1905679-141
 Matrix: SOIL
 Received Date: 5/14/2019 9:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	550	60	mg/Kg	20	5/18/2019 1:31:03 AM	45016

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

Qualifiers:

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

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

Page 100 of 0

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 P. 14 13 Analysis Request	BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) CALONA	7 7					on the story of control of the terring. Continue TPH it sneeter than 100 mg/kg.
	BTEX + MTBE + TMB's (8021)	77			77		Remark S
d Time: 5/20/19 d Rush ne: Unit #108 78. 118.01	is Jones System of the Alich Albert Alich Albert A	700- 200-	-003	-005	500- 800-	-010- 110-	Date Time (Court ex Date Time 5/19/19 9:10
Turn-Around Time: Cr Standard Project Name: RT Uni Project #: Project #:	Project Manager: Chris Do Sampler: Sample Temperature: Container Preservative Type and # Type	Jar 1					Received by:
	S @ Fe lon Ipe. con Level 4 (Full Validation) Sample Request ID SILU/19	2.1	3,	α, e, ·	, 10,	3,	
6 1 1751	□ Other Sample Suy/19 Sample ENM 5/14/19	BH-1	3 3	= 1	11 BH-2 11	31 11 11	d by:
Chain-of-Custo Client: Te lon LPE Mailing Address: 408 んし、 イルとらり	Cjores @ Le Other Matrix Sa GNM 5/14/	Rij V					Relinquished by: Relinquished by:
Chain:			0160	03.50	950	0/01	Time: Time:
Client: 7 Mailing A	email or Fax# QA/QC Packac G Standard Accreditation I EDD (Type Date Tim	5-19-19 0500					Date:

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Head of State Head				Project Name								7			3	5	a
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## 6.31 -6.57 Too.778 . 1/3. O/ Finally in the control of the c	ACT	esia, NM 885	2/10	Project #:				Tel.	505-3	45-39		Fax	505-3	45-4	107		
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		AMESI	NM	01689	Project #:			Tel	Tel. 505-345-3975	15-397		Fax 505-345-4107	5-345	-4107	3		
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-	necessary.	samples subr	mitted to Hall Environmen	ital may be subco	ontracted to other ac	credited laboratorie	If necessary, samples admitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	s possibility. Any	/ sub-cont	racted dat	will be c	Surly not	/ pote	the art	alvtinal ren	ţ	

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# 1465.9 Mm 88270 Project #: 170778 - 1/8 Project Manager:	60	4901 H	www.hallenvironmental.com	www.hallenvironmental.com	nviron	mental	L.com	37109		
CO778 - 1/8		Tel. 50	Tel. 505-345-3975	975	Fax	505-345-4107	45-41	07		
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Turn-Around Time:	E Standard	Project Name:	RTO	Project #:	100/	١	Project Manager:	CTORES	) location	On Ice:	1-		Container Type and #		Jer											_	Received by:	XX	Received by:	1
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HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	8270 (Semi-VOA)  Chloricles (300)  Air Bubbles (Y or N)	\\	1				
Haw 505-3	TPH 8015B (GRO \ DRO \ MRO)  TPH (Method 418.1)  EDB (Method 504.1)  PAH's (8310 or 8270 SIMS)  RCRA 8 Metals  Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )  8081 Pesticides \ 8082 PCB's						Time: Relinquished by:  Received by:  Solution:  Solution:
4901 Tel.	BTEX + MTBE + TMB's (8021)						Remarks:
Rush	0.9°C/L7°C/2.2°C ative HEAL No.	-072 -073	PL0-	970-	-078		S/13 15   330
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Turn-Around Time:  Z Standard Project Name: C  RT Unit Project #:	Project Manager:  CLores Sampler: Clores On Ice: Inves Sample Temperature: Container Preserve Type and # Type	Je -				+	Received by:
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	HALL		4901 Hawkins NE - Albuquerque, NM 87109	Tel 505-345-3975				70 \ C	941 (GB	PH 8015B (Method	T 7	1						\	\				ks:		
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9 9	BTEX + MTBE + TMB's (8021)  BTEX + MTBE + TPH (Gas only)  TPH 8015B (GRO / DRO / MRO)  TPH (Method 418.1)  PAH's (8310 or 8270 SIMS)  RCRA 8 Metals  RCRA 8 Metals  ROB1 Pesticides / 8082 PCB's  8260B (VOA)  8250 (Semi-VOA)  8270 (Semi-VOA)  OLIVIA (330)				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									Remarks:	9:00 p.9 ch 12
Turn-Around Time:  Standard   Rush  Project Name: Cot  RS Unit 108  Project #: 700778 . 1/8. 0/	Sampler: Closes Sampler: Closes Sample Temperature: 0.9 °c/l.7°c/2.2 Container Type and # Type Type and # Type	Je   Te   -092	260-1111	hb0-	-045	960-	790-	-048	660-	001-	101-	707-	201-	Received by:  Space Time  Space Time  Received by:  Governor Date Time	5-14-69 3
1-of-Custody Record  19/01  SS: 408 U. Texas  Hoteria NM 88210  631-6777	or Fax#:  Deckage:  Independent   Level 4 (Full Validation)    Clark   Deckage:  Cla	5-22-7 910 Soil BH-13 8'	11/5/1	1-0 h-14 0-1,	925 2'	930	935 4'	9	545	950 10'	255 BH-15 0-1'	, 2	1605 3'	Date: Time: Relinquished by:  Parte: Time: Relinquished by:	9 1910 4111

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Turn-Around Time:	□-Standard	Project Name:	RJU	Project #:	7007		rioject Manager.	130	- 10 -	Sampler: C	OI Ice.	Sample Temperature:	Container	Type and #	Ja												Received by:	Received by:	>
cord			20	0/0/8	0000			(Validation)				Í	Oll polling	o combo	4.	19	8,	,01	,1-0	12	3,	1,6	, 9	8 (	,01				
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Chain-	Chain-of-Custody Record	Turn-Around Time:			
Client: Talor		☑ Standard □ Rush	ų,	ANALYSTS I ABODATODY	AL
		Project Name: Coc		1 5	-
Mailing Address:	408 W. Toxas	RJ Unit 1	28	4901 Hawkins NE - Albuquerque, NM 87109	
	Artesis NM 88210	Project #:			
Phone #:	631-6577	700778.1	18.01	No. of Concession, Name of Street, or other Designation of Concession, Name of Concession, Nam	
email or Fax#:		Project Manager:		(A)(	
QA/QC Package: Z-Standard	□ Level 4 (Full Validation)	Clos		no ss9) NO / MR (SMI	
Accreditation		Sampler: CJores		7 PHd.	(1
□ NELAP	□ Other	On Ice: 12-Yes	οN 🗆	OF 	N 10
□ EDD (Type)		Sample Temperature: 0	.92/1.72/2.22	(GR 5) Oct 1, NC 5) I, NC 6) I, NC 6. I	) Y)
Date Time	Matrix Sample Request ID EUM 5/14/19	Container Preservative Type and # Type	HEAL NO.	BTEX + MT BTEX + MT TPH 8015B TPH (Methor PAH's (831 PA	Air Bubbles
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	Relinquished by:	Received by:	Time	Remarks:	
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5/13/19/19/19	The state of the s		0:6 6)-41-5	0 455/13	
If thecessary, sa	mples submitted to Hall Environmental may be subc	ontracted to other accredited laborator	ies. This serves as notice of this p	If necessary, samples submitted to Hall Environmental may be subconfracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX + MTBE + TPH (Gas only)  BTEX + MTBE + TPH (Gas only)  TPH 8015B (GRO / DRO / MRO)  TPH (Method 418.1)  EDB (Method 504.1)  PAH's (8310 or 8270 SIMS)  RCRA 8 Metals  RCRA 8 Metals  Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )  Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )  8081 Pesticides / 8082 PCB's  8081 Pesticides / 8082 PCB's  8250 (Semi-VOA)  8270 (Semi-VOA)	\		7	7				\ \ \ \ \	\ \ \				Remarks:	Courtie Date Time S-14-19 9-10 p. 12 / 13
Turn-Around Time:  区Standard □ Rush Project Name: このら  大ブ しゃ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Project Manager.  CSCS Sampler: CSCS On Ice: SYFES D No Sample Temperature: 6.9 c/1.7 c/2.2 c  Container Preservative HEAL No. Type and # Type IQD5(07Q	Ja Ia -127	1 - 1.28	b21-	-130	-131	781-	-133	h21-	-135	136	751-	<u>851-</u>	Received by: Date Time	Received by:  Courtie Date Time  S-14-19 9-10  outlacted to other accredited laboratories. This serves as notice of
Chain-of-Custody Record  Client: 7a/or  Mailing Address: 408 U Texas  Artesia NM 88310  Phone #: 62F 6977	email or Fax#:  QA/QC Package:  Accreditation  NELAP  Date Time Matrix Sample Request ID  ENM 5/I4/I9	520-11 1210 SOII BH-18 8'	101 " 1215	120 84-19 0-1	12 1 521	1230 14 37	1532 11	19 11 Ch21	1245 184-20 0-1	1250	3,	) h	105	Date: Time: Relinquished by:	Pate; Time: Relinquished by:    190     190

Address:     Add	Client:	\	HALL ENVIRONMENTAL
851	10		
85. 408 LV 7Excs Project #.  1 Level 4 (Full Validation) CLrcs  2 Cooler Temphredung CF: 0.9° (17° 0.72° 0.8375)  1 Container Preservative QO HEAL NO 1 MED 1 OF 1 MED 1 ME		Project Name: Coc	I to
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Az Compliance   Sampler   Clouds   Cl		Closes	PO ₄ , S
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May 22, 2019

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RJU #108

Enclosed are the results of analyses for samples received by the laboratory on 05/21/19 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 05/21/2019 Sampling Date: 05/20/2019
Reported: 05/22/2019 Sampling Type: Soil

Project Name: RJU #108 Sampling Condition: ** (See Notes)
Project Number: 700778.118.01 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BH - 12 10' (H901824-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 14 10'	(H901824-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 14 11'	(H901824-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 17 10'	(H901824-04)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/22/2019	ND	432	108	400	7.69	QM-07

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 05/21/2019 Sampling Date: 05/20/2019

Reported: 05/22/2019 Sampling Type: Soil

Project Name: RJU #108 Sampling Condition: ** (See Notes)
Project Number: 700778.118.01 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BH - 17 11' (H901824-05)

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 05/22/2019 ND 432 108 400 7.69

Sample ID: BH - 19 6' (H901824-06)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Analyte Result % Recovery Qualifier Chloride 1360 16.0 05/22/2019 432 400 7.69 ND 108

Sample ID: BH - 19 7' (H901824-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4400 05/22/2019 ND 400 16.0 432 108 7.69

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



## **Notes and Definitions**

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: / a lon		ANALYSIS REQUEST
Project Manager: C. Jones	P.O. #:	
Address: 408 W. Texas	Company: / a	lon
City: Artesia State: 1	Nr Zip: 8210 Attn:	
Phone #: 631-6977 Fax #:	Address:	
Project #: 76778. /18.0/ Project Owner:	wner: COG city:	
Project Name: RJ Unit #108	State: Zip:	
on: Eddy A	Phone #:	
Sampler Name: Brender Sinclair	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	Chlori
34-12		-19 1000
2 BH-14 10'		11908
71,		1110
4 BH-17 10,		1200
		1210
C BK-19 6:		100
7 7'		110
PLEASE NOTE: Liability and Damages, Cardnal/Palaility and delorits exclusive femedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the analyses, All claims including those for negligative and Afficial what sources shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion to service. In no event shall Cardinal be lightle for including the complete of the policable service. In no event shall Cardinal be lightle for including the complete of the policability of the policability of the complete of the policability of	bally and clent's exclusive remedy for any claim arising whether based in contract or toth, shall be limited to the amount paid by the citent for tind AT and their cause whatsoever shall be deemed waived unless made in writing and treetived by Cardinal within 30 days after completion of the following the completion of the following the completion of the consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarity before the contract the contract of the	unt paid by the client for the  year after completion of the applicable  reasons are subsidiaries,  and the second of the provide  the descend of the the provide  the descend of the
11	Received By:	Phone Result: ☐ Yes ☐ No Add'I Phone #:  Fax Result: ☐ Yes ☐ No Add'I Fax #:  REMARKS:
Relinquished By:  Time:	Received By: " V	
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)	011
Sampler - UPS - Bus - Other: 18.7	d d	



May 22, 2019

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RJU #108

Enclosed are the results of analyses for samples received by the laboratory on 05/21/19 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 05/21/2019 Sampling Date: 05/20/2019
Reported: 05/22/2019 Sampling Type: Soil

Project Name: RJU #108 Sampling Condition: ** (See Notes)
Project Number: 700778.118.01 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

# Sample ID: BH - 12 10' (H901824-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 14 10'	(H901824-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 14 11'	(H901824-03)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	05/22/2019	ND	400	100	400	0.00	
Sample ID: BH - 17 10'	(H901824-04)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/22/2019	ND	432	108	400	7.69	QM-07

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 05/21/2019 Sampling Date: 05/20/2019

Reported: 05/22/2019 Sampling Type: Soil

Project Name: RJU #108 Sampling Condition: ** (See Notes)
Project Number: 700778.118.01 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BH - 17 11' (H901824-05)

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 05/22/2019 ND 432 108 400 7.69

Sample ID: BH - 19 6' (H901824-06)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Analyte Result % Recovery Qualifier Chloride 1360 16.0 05/22/2019 432 400 7.69 ND 108

Sample ID: BH - 19 7' (H901824-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4400 05/22/2019 ND 400 16.0 432 108 7.69

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



## **Notes and Definitions**

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

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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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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: / a lon		ANALYSIS REQUEST
Project Manager: C. Jones	P.O. #:	
Address: 408 W. Texas	Company: / a	lon
City: Artesia State: 1	Nr Zip: 8210 Attn:	
Phone #: 631-6977 Fax #:	Address:	
Project #: 76778. /18.0/ Project Owner:	wner: COG city:	
Project Name: RJ Unit #108	State: Zip:	
on: Eddy A	Phone #:	
Sampler Name: Brender Sinclair	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	Chlori
34-12		-19 1000
2 BH-14 10'		11908
71,		1110
4 BH-17 10,		1200
		1210
C BK-19 6:		100
7 7'		110
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11	Received By:	Phone Result: ☐ Yes ☐ No Add'I Phone #:  Fax Result: ☐ Yes ☐ No Add'I Fax #:  REMARKS:
Relinquished By:  Time:	Received By: " V	
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)	011
Sampler - UPS - Bus - Other: 18.7	d d	



July 05, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: RJ UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

# Sample ID: BORE HOLE # 1 ( 0-1' ) (H902291-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	1 ( 2' )(H90	02291-02)							
Chloride, SM4500CI-B	00Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
				N.D.	400	100	400	3.92	
Chloride	160	16.0	07/04/2019	ND	400	100	400	3.92	
Chloride  Sample ID: BORE HOLE # Chloride, SM4500CI-B		02291-03)	07/04/2019 Analyze		400	100	400	3.92	
Sample ID: BORE HOLE #	1 ( 3' )(H90	02291-03)			400 BS	% Recovery	True Value QC	S.92	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	1 ( 3' )(H90	02291-03) /kg	Analyze	d By: AC					Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte	1 ( 3' ) (H90 mg, Result 240	02291-03) /kg Reporting Limit 16.0	Analyze Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500CI-B Analyte Chloride	1 ( 3' ) (H90 mg, Result 240	02291-03) /kg  Reporting Limit 16.0	Analyze Analyzed	d By: AC  Method Blank  ND	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500CI-B  Analyte Chloride  Sample ID: BORE HOLE #	1 ( 3' ) (H90 mg,  Result  240  1 ( 4' ) (H90	02291-03) /kg  Reporting Limit 16.0	Analyzed 07/04/2019	d By: AC  Method Blank  ND	BS	% Recovery	True Value QC	RPD	Qualifier

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**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Chloride, SM4500CI-B	mg	mg/kg		d By: AC					
Analyte	Result	Result Reporting Limit		Method Blank	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride	160	16.0	07/04/2019 ND			100			
Sample ID: BORE HOLE #	# 1 ( 6' )(H9	02291-06)							
Chi CM4E00CL D		/1		d D 40					
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Chloride, SM4500CI-B  Analyte	<b>mg</b> , Result	/kg Reporting Limit	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte					BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte  Chloride  Chloride  Sample ID: BORE HOLE #	Result 96.0	Reporting Limit	Analyzed	Method Blank		•	·		Qualifie

Cilioriue, Siri4300Ci-B	ilig	ky	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/04/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 2 ( 0-1' ) (H902291-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	07/04/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 2 ( 2' ) (H902291-09)

Chloride, SM4500Cl-B	mg	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/04/2019	ND	400	100	400	3.92	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 2 ( 3' ) (H902291-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 2 ( 4' )(H9	02291-11)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	# <b>2 ( 4' )(H9</b> (	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 2 ( 5' ) (H902291-12)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 2 ( 6' ) (H902291-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 2 ( 7' ) (H902291-14)

	" - ( ' ) (								
Chloride, SM4500CI-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/04/2019	ND	400	100	400	3.92	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 3 ( 0-1' ) (H902291-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 3 ( 2' )(H90	02291-16)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/04/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 3 ( 3' ) (H902291-17)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 3 ( 4' ) (H902291-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 3 ( 5' ) (H902291-19)

	( - ) (	,							
Chloride, SM4500CI-B	mg	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/04/2019	ND	400	100	400	3.92	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

# Sample ID: BORE HOLE # 3 ( 6' ) (H902291-20)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 3 ( 7' )(H9	02291-21)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	#3 ( 7' ) (H9	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 3 ( 8' ) (H902291-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 3 ( 9' ) (H902291-23)

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	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 4 ( 0-1' ) (H902291-24)

Chloride, SM4500Cl-B		mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/04/2019	ND	400	100	400	3.92	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 4 ( 2' ) (H902291-25)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	ry True Value QC	RPD	Qualifier
Chloride	288	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 4 ( 3' )(H9	02291-26)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	#4(3')(H9	-	Analyze	d By: AC					
·		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 4 ( 4' ) (H902291-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/04/2019	ND	400	100	400	3.92	QM-07

#### Sample ID: BORE HOLE # 4 ( 5' ) (H902291-28)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 4 ( 6' ) (H902291-29)

Chloride, SM4500Cl-B	mg	-							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/04/2019	ND	400	100	400	3.92	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 5 ( 0-1' ) (H902291-30)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	5 ( 2' )(H9	02291-31)							
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	RS	% Recovery	True Value OC	RPD	Qualifier

# Sample ID: BORE HOLE # 5 (3') (H902291-32)

1310

16.0

Chloride

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19000	16.0	07/04/2019	ND	400	100	400	3.92		

ND

400

100

07/04/2019

#### Sample ID: BORE HOLE # 5 (4') (H902291-33)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	07/04/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 5 ( 5' ) (H902291-34)

· · · · · · · · · · · · · · · · · · ·									
Chloride, SM4500Cl-B	mg,	/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	07/04/2019	ND	400	100	400	3.92	

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3.92

400



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 5 ( 6' ) (H902291-35)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	5 ( 7' )(H90	02291-36)							
Sample ID: BORE HOLE #	±5 ( 7' ) (H90 mg	-	Analyze	d By: AC					
		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg	/kg	<u> </u>		BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC	AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 5 ( 9' ) (H902291-38)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/04/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 6 ( 0-1' ) (H902291-39)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AC								
·			•						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/04/2019	ND	400	100	400	3.92	

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901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 6 ( 2' ) (H902291-40)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	•	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 6 ( 3' )(H90	02291-41)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	#6(3')(H90	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 6 ( 4' ) (H902291-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	zed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 6 ( 5" ) (H902291-43)

Chloride, SM4500Cl-B	mg	/kg	Analyze	lyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/04/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 6 ( 6' ) (H902291-44)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AC			d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9460	16.0	07/04/2019	ND	400	100	400	3.92		

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #	6 ( 7' )(H9	02291-45)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	6 ( 8' )(H9	02291-46)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	07/04/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	:6 ( 9' )(H9	02291-47)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Chioride, SM4500CI-B	mg	/ Kg	Anaiyze	u by: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	07/05/2019	ND	400	100	400	3.92	QM-07

#### Sample ID: BORE HOLE # 6 ( 10' ) (H902291-48)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/05/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 6 ( 11' ) (H902291-49)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	07/05/2019	ND	400	100	400	3.92	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #	76 ( 12 ⁻ )(H	902291-50)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	. , ,	,							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 6 ( 14' )(H	902291-52)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/05/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 6 ( 15' ) (H902291-53)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 7 ( 0-1' ) (H902291-54)

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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	07/05/2019	ND	400	100	400	3.92	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 7 ( 2' ) (H902291-55)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	g Limit Analyzed Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 7 ( 3' )(H9	02291-56)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	# 7 ( 3' )(H9	•	Analyze	d By: AC					
•	`	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 7 ( 4' ) (H902291-57)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/05/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 7 ( 5' ) (H902291-58)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/05/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 7 ( 6' ) (H902291-59)

Jumpie ID. Doite									
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	07/05/2019	ND	400	100	400	3.92	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 7 ( 7' ) (H902291-60)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/05/2019	ND	400	100	400	3.92	
						.00			
Sample ID: BORE HOLE #	# 8 ( 0-1' )(H	1902291-61)							
Sample ID: BORE HOLE #	# <b>8 ( 0-1' ) (</b> F	-	Analyze	d By: AC					
•		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 8 ( 2' ) (H902291-62)

Chloride, SM4500Cl-B	de, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2019	ND	400	100	400	3.92	

#### Sample ID: BORE HOLE # 8 ( 3' ) (H902291-63)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	07/05/2019	ND	400	100	400	3.92		

#### Sample ID: BORE HOLE # 8 ( 4' ) (H902291-64)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/05/2019	ND	400	100	400	3.92	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE # 8 ( 5' ) (H902291-65)

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/05/2019	ND	400	100	400	3.92	
•		-							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	#8 (6')(H90	-	Analyze	d By: AC					
•		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 8 ( 7' ) (H902291-67)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 8 ( 8' ) (H902291-68)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 8 ( 9' ) (H902291-69)

Chloride, SM4500Cl-B	mg/	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	07/05/2019	ND	416	104	400	0.00	

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Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

#### Sample ID: BORE HOLE #8 ( 10' ) (H902291-70)

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	07/05/2019	ND	416	104	400	0.00	
ample ID: PORE HOLE # 9 / 11' \/H00			07/03/201A MD						
Sample ID: BORE HOLE #	# 8 ( 11' ) (H	902291-71)							
Sample ID: BORE HOLE #	# <b>8 ( 11' ) (H</b> !	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 8 ( 12' ) (H902291-72)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 8 ( 13' ) (H902291-73)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 8 ( 14' ) (H902291-74)

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Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	07/05/2019	ND	416	104	400	0.00	

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Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

# Sample ID: BORE HOLE # 9 ( 0-1' ) (H902291-75)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 9 ( 2' ) (H902291-76)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/05/2019	ND	416	104	400	0.00	

# Sample ID: BORE HOLE # 9 ( 3' ) (H902291-77)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 9 ( 4' ) (H902291-78)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 9 ( 5' ) (H902291-79)

	- ( - ) (	,							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	07/05/2019	ND	416	104	400	0.00	

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Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 9 ( 6' ) (H902291-80)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	07/05/2019	ND	416	104	400	0.00	
ample ID: BORE HOLE # 9									
Sample ID: BORE HOLE #	# 9 ( 7' )(H9	02291-81)							
Sample ID: BORE HOLE #	‡9 ( 7' ) (H9	_	Analyze	d By: AC					
-		_	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

# Sample ID: BORE HOLE # 9 ( 8' ) (H902291-82)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 9 ( 9' ) (H902291-83)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/05/2019	ND	416	104	400	0.00	

#### Sample ID: BORE HOLE # 9 ( 10' ) (H902291-84)

Chloride, SM4500CI-E	B mg	ı/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2019	ND	416	104	400	0.00	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

# Sample ID: BORE HOLE # 10 ( 0-1' ) (H902291-85)

Analyte	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE # 1	LO ( 2' )(H	902291-86)							
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	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE # 1		9 <b>02291-87)</b> /kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 1	LO ( 4' )(H	902291-88)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 1	LO ( 5' )(H	902291-89)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/05/2019	ND	400	100	400	0.00	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 10 ( 6' ) (H902291-90)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	07/05/2019	ND	400	100	400	0.00	

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## **Notes and Definitions**

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

recovery.

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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Relinquished by: Relinquished by: Relinquished by: Invoice to: Analysis Request of Chain of Custody Record H90229 Receiving Laboratory: county, state) roject Name: Zlient Name: oject Location: ONLY LAB# ạ さるこ 0 0 Borcholo#1 Berchote# Borchole #1 Borcho / Borchole # Borchol + #1 Choil #1 hole #Z Eddy Co, NM cog Cardinal Attn: COG - Ike Taverez RJ Unit 108 (4.17.19) 4 H #2 Tetra Tech, Inc. SAMPLE IDENTIFICATION S L 0 (NS w 2. 7/3/19 Date: Date: Date: I Ime: Time: Time: Received by: Received by: Received by: Sampler Signature: Project #: Site Manager: EAR: 2019 DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending X X X SOIL Conner Moehring 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: Date: HCL PRESERVATIVE HNO₃ X X X X X ICE X X Time: None # CONTAINERS 7 2 3 2 2 5 2 Z 2 6 FILTERED (Y/N) Sample Temperature #97 (Circle) HANDOELIVENED BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) ONLY 3.40 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles REMARKS: ANALYSIS REQUEST XRUSH: Same Day TCLP Semi Volatiles Rush Charges Authorized Special Report Limits or TRRP Report FEDEX UPS RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM Page PLM (Asbestos) 64 m X X Chloride × No TDS Chloride Sulfate 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr 9, 24 Hold

COG   Carding		elinguished by:	elinquished by:	Ganner )	elinquished by:	20 Box	19 30	18 Bo	-	16 Bo	15 300	14 Bar	13 Ben		11 50	ONLY )	LAB#	100000	omments:	eceiving Laboratory:	voice to:	roject Location: ounty, state)	roject Name:	lient Name:	7
TIME  WATER  WATER  WATER  WATER  Clair Gonzales  Conner Moehring  Pending  Pending  Conner Moehring  Pending  Pending  Conner Moehring  Conner Moehring  Pending  Pending  Conner Moehring  Conner Moehring  Pending  Pending  Pending  Pending  Conner Moehring  Pending  Pending  Pending  Pending  Conner Moehring  Pending  Pend				alun	Date:	7 54	-	Borchoic #3 (41)	Bornholc#3 (3)	Borohore#3 (21)	3 (0-	Berenole # 2 (7')	Borchok# 2 (61)	_	_		SAMPLE IDENTIFICATION			Cardinal	7	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	
Clair Gonzales  Clair Gonzales  Clair Gonzales  Clair Gonzales  Clair Gonzales  Clair Gonzales  Conner Moehring  Conner Moehring  Pages Envarive  HCL  HNO3  METHOD  PAGES Envarive  None  Date: Time:  Date: Time:  Date: Time:  Circle or total Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Semi Volatiles  TCLP Semi Volatiles  ANA  Clair Gonzales  Circle or total Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Semi Volatiles  TCLP Semi Volatiles		Received by:	Received by:	Принана	Received by:	4									7/1/16		YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Containers   Con		1		White to 7-		<b>×</b>										SOIL HCL HNO ₃ ICE	R			Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 10 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles				8-19 12:15	Ġ.	7	7	7	7	- 2	7	- 2	- 2	ح	Z	# CONT FILTER BTEX 8	ED (Y	RS /N) BTE	55 N V 2 7 7 7						0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	п	П	X RUSH: Same Day 24 hr		REMARKS:	* 3	<	×	×	×	×	×	×	×	X	TPH 80 PAH 82 Total Me TCLP M TCLP Ve TCLP Se RCI GC/MS GC/MS PCB's 8 NORM PLM (As Chloride General	15M ( 70C etals A etals A etals A semi Vol. 8 Semi. 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10082 / 10	GRO - g As Ba Ag As B s solatiles 260B / Vol. 82 608 s) ulfate r Chem	DRO - Co a Cd Cr F a Cd Cr 624 70C/625 TDS nistry (se	Pb Se I Pb Se	-lg Hg	(1)	e or specity Method	ANALYSIS REQUEST	

Relinquished by: Relinquished by: relinquished by: Comments: Receiving Laboratory: Invoice to: county, state) Project Name: Client Name: Analysis Request of Chain of Custody Record oject Location LAB USE LAB# arrive 4 Borchole # a Borchole Borchole #5 Borchoie # 3 Boschole #3 Boschoic # choic #4 choic #\$ 3 Cardinal COG Eddy Co, NM RJ Unit 108 (4.17.19) Attn: COG - Ike Taverez 工事 # 2 Tetra Tech, Inc. S SAMPLE IDENTIFICATION (0-1 6 (7) 3 C S 0 211 W Date: 13/12 Date: Date: Time: Time: Received by: Received by Sampler Signature: Site Manager Project #: Received by: EAR: 2019 12/15 DATE 4 SAMPLING TIME WATER Clair Gonzales MATRIX Pending X X SOIL X X Conner Moehring × 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 X Date: HCL PRESERVATIVE HNO: 1 Time: X X X X X X ICE I Ime: None # CONTAINERS 21/5 2 3 5 2 5 2 5 3 7 Z FILTERED (Y/N) Sample Temperature BTEX 8260B (Circle) HAND DELIVERED BTEX 8021B TPH TX1005 (Ext to C35) #97 LAB USE 3.40 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg REMARKS: TCLP Volatiles ANALYSIS REQUEST X RUSH: Same Day TCLP Semi Volatiles Rush Charges Authorized Special Report Limits or TRRP Report FEDEX UPS RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM Page PLM (Asbestos) (4 h) X X X X X Chloride Chloride Sulfate TDS 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr 9 74 Hold

F

Project Location: (county, state) Relinquished by: Invoice to: Project Name: Analysis Request of Chain of Custody Record Relinquished by: Relinquished by comments: Receiving Laboratory: Client Name: LAB USE LAB # maso 2222 8 39 Borchoic # 80 andergo Boschole #5 Borcholetis Borcholous BOSCHOLET Borehole #5 Bercherens Borchoic # Boschole cog Eddy Co, NM Cardinal Attn: COG - Ike Taverez RJ Unit 108 (4.17.19) Tetra Tech, Inc. U SAMPLE IDENTIFICATION #5 7/3/15 [0-1] (21) 5 E on 1 6 W 2. Date: Date: Date: Time: Time: Sampler Signature: Received by Received by Project #: Site Manager: Received by: 7/2/15 'EAR: 2019 DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL Conner Moehring 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE HNO ICE Time: 4 Time: None # CONTAINERS 2 FILTERED (Y/N) Sample Temperature BTEX 8021B BTEX 8260B Circle) HAND DELIVERED TPH TX1005 (Ext to C35) ONLY 34.0 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles ANALYSIS REQUEST RUSH: Same Day 24 hy TCLP Semi Volatiles Rush Charges Authorized FEDEX UPS Special Report Limits or TRRP Report RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X × X X × × Chloride O TDS Chloride Sulfate 48 hr 72 hr General Water Chemistry (see attached list) Anion/Cation Balance 9 24

Relinquished by: Relinquished by: Relinquished by: nvoice to: Project Name Analysis Request of Chain of Custody Record 490229 county, state) Receiving Laboratory: roject Location: lient Name: LAB USE muse 4 49 48 Borchole # 6 Bornale # 6 Boishole # Boschelette Borchoic #6 Boschole# 6 Barchele #6 Brichain # 6 Bercholette Bacheric #6 Cardina Attn: COG - Ike Taverez Eddy Co, NM RJ Unit 108 (4.17.19) COG 6 Tetra Tech, Inc. SAMPLE IDENTIFICATION (3) 7 6 S 1.6 2 ال O a 7 3/15 Date: Date: Date: lime: Time: Time: ORIGINAL COPY Received by: Received by: Received by: Sampler Signature: 7/2/5 Project #: Site Manager: EAR: 2019 DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL Conner Moehring 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE HNO: Time: X ICE Time: Ime: None # CONTAINERS 5 4 FILTERED (Y/N) Sample Temperature (Circle) HAND DELIVERED BTEX 8260B BTEX 8021B TPH TX1005 (Ext to C35) ONLY 3.40 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg REMARKS: TCLP Volatiles ANALYSIS REQUEST N RUSH: Same Day TCLP Semi Volatiles Rush Charges Authorized Special Report Limits or TRRP Report FEDEX UPS RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM Page PLM (Asbestos) 24 hr 48 hr 72 hr Chloride TDS Chloride Sulfate General Water Chemistry (see attached list) Anion/Cation Balance S 9 25 Hold

Site Manager:  Clair Gonzales  Project 4:  Pending  Sampler Signature:  Conner Moehring  Sampler Signature:  Conner Moehring  Sampler Signature:  Conner Moehring  Facebred by:  Date: Time:  Perding  Project 4:  Pending  Proservative  Sampler Signature:  Conner Moehring  Facebred by:  Date: Time:  Project 4:  Pending  Proservative  Sampler Signature:  Conner Moehring  Facebred by:  Date: Time:  Project 4:  Pending  Proservative  Sampler Signature:  Conner Moehring  Facebred by:  Date: Time:	Tetra Tech, Inc.    Size Assumption   State	Tetra Tech, Inc.    Servicing State Spite Services Spite Spi
Sampler Signature:  Sampler Signature:  Clair Gonzales  Project #:  Pending  Sampler Signature:  Conner Moehring  Sampler Signature:  Sampler Sign	Site Manager:  Clair Gonzales  Conner Moehring  Project #:  Pending  Sampler Signature:  Conner Moehring  WATER  SOIL  HCL  HNO S  HCL  HONO  WEAR 2010  PRESERVATIVE  WATER  X  Date: Time:  Date: Time:  Sample Temperature  Conde) HANGOS BEZ-559  Fax (822) 882-559  Fax (822) 882-	Site Manager:  Clair Gonzales  Site Manager:  Clair Gonzales  Conner Moehring  Project #:  Pending  ANA  Clair Gonzales  Conner Moehring  Pending
Pending  Conner Moehring  Conner Moehring  Pending  Pending  Pending  Pending  Conner Moehring  Conner Moehring  Date: Time:  Date: Time:	Clair Gonzales  Conner Moehring  PRESERVATIVE  HINO3  METHOD  METHOD  AT 13.47  AT 12.15  Date: Time:  Date: Time:  Date: Time:  Clice  BTEX 8260B  TPH TX1005 (Ext to C35)  TPH 8015M (GRO - DRO - ORO - MRO)  PAH 8270C  Total Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg	Clair Gonzales  WATER  WATER  WATER  SOIL  Pending  Pendi
70 — — # CONTAINERS  2 FILTERED (Y/N)	Circle   HAND	Circle HANDO TELL VER TO THE WAY TO THE PROPERTY OF THE WAY TO THE PROPERTY OF THE WAY TO THE PROPERTY OF THE WAY TO THE
	TPH TX1005 (Ext to C35)  TPH 8015M ( GRO - DRO - ORO - MRO)  PAH 8270C  Total Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semi Volatiles

Project Location: (county, state) Relinquished by: Relinquished by: Comments: Receiving Laboratory: Invoice to: Project Name: Analysis Request of Chain of Custody Record 195239 lient Name: LAB USE LAB # genn 늄 69 66 64 63 68 Boil hole Eddy Co, NM COG Cardinal RJ Unit 108 (4.17.19) 4 Attn: COG - Ike Taverez X Tetra Tech, Inc. SAMPLE IDENTIFICATION 1-0) ō 6 S 2 OR Date: 13/5 Date: Date: Time: Time: Time: ORIGINAL COPY Received by: Received by: 7/2/15 Sampler Signature: Project #: Site Manager: DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL 1 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Conner Moehring Date: HCL PRESERVATIVE METHOD HNO₃ Time: ICE Time None # CONTAINERS 2 FILTERED (Y/N) Sample Temperature BTEX 8021B BTEX 8260B (Circle) HAND DELIVERED LAB USE TPH TX1005 (Ext to C35) 3.40 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method No. Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles ANALYSIS REQUEST NRUSH: Same Day 24 hr 48 hr 72 hr TCLP Semi Volatiles FEDEX UPS Rush Charges Authorized Special Report Limits or TRRP Report RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM Page PLM (Asbestos) 3 Chloride TDS Sulfate General Water Chemistry (see attached list) Anion/Cation Balance 9 24 Hold

Analysis Request of Chain of Custody Record

		Relinquished by:	remiquence by.	1	Relinguished by:	19	78	27	76	75 B.	44	73	72		( ONLY )	LAB#	18229	comments:	neceiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	
		Date: Time:	Date: Time:	2	Date: Time:	S	H1	3'	] 21	Borrehole #9 (0-1)	(141)	(13')	(12')	Boreholo #8 (11)		SAMPLE IDENTIFICATION			Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.	
OBIGINAL CORY		Received by:	Received by:	hunara	Received by:								1, 1	7/2/15	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
<		Date: Time:	Date: Time:	Make 7-3										×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Circle) 1	(N	1	Sample 1	19 12:15 CA	4										# CONT FILTER BTEX 8 TPH TX	ED (Y 021B 1005	FRS (/N) BTE>	-							
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	3.4°		Sample Temperature	LAB USE REMARKS: ONLY STANDARD											TPH 80 PAH 82 Total Me TCLP Me TCLP Vo TCLP Se RCI	70C tals A etals A latiles	g As Ba Ag As Ba	Cd Cr F	b Se H	g	(Circle or S	ANALYSIS			
	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr 48 hr 72 hr		4										GC/MS \ GC/MS S PCB's 8 NORM PLM (Asl	Semi. 1 082 / 6	Vol. 823 608					pecify Method	YSIS REQUEST		Page
	TARP Report	۵													Chloride General Anion/Ca	Water	r Chemi		e attac	hed list)	No.)			& of	
															Hold										14

	Relinquished by:	Helinquished by:		Relinquished by:	90	89	88	87	86	58	48	83	82	18	( LAB USE )	162 201		Comments:	Heceiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	급
	Date: Time:	Date: Time:	3	Date: Time:	e.	S	41	3	7,	Bonchole# 10 (0-1)	10'	۲)	Q	Borcholl# 9 (7)		SAMPLE IDENTIFICATION			ory: Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	cog	Tetra Tech, Inc.
	Received by:	Heceived by:	1 January	Received, by:	4									7/2/2	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
	Date: Time:	Daye: Time:	Make 7-3.49 12:1	Date: Time:	A A									_	WATEI SOIL HCL HNO ₃ ICE None	AINE			Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	Rush Charges Authorized	Sample Temperature RUSH: Same Day (24 hr) 48 hr 72 hr	STANDARD	LAB USE REMARKS:	4									X	FILTERI BTEX 80 TPH TX TPH 80 PAH 82 Total Me TCLP Me TCLP Vo TCLP Se RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Ast Chloride Chloride General Anion/Ca	D21B 1005 (15M (170C) 15M (170C) 16als Agetals	BTE: (Ext to GRO -	DRO - Co a Cd Cr F ba Cd Cr 624 270C/625 TDS nistry (se	PBO - MPb Se F	Hg Hg	(1)	(circle of specify Method No.)	ANALYSIS REQUEST	



July 05, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: RJ UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 10 ( 7' ) (H902292-01)

Analyte	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 1	• , ,	-							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	07/05/2019	ND	400	100	400	0.00	
Cilionae	14000		. ,						
		902292-03)							
Sample ID: BORE HOLE # 1		-	Analyze	d By: AC					
Sample ID: BORE HOLE # 1	LO ( 9' )(HS	-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # 1 Chloride, SM4500Cl-B	10 ( 9' )(H9	'kg	•	•	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Sample ID: BORE HOLE # 1 Chloride, SM4500Cl-B  Analyte Chloride	10 ( 9' ) (H9 mg/ Result 17600	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Sample ID: BORE HOLE # 1 Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: BORE HOLE # 1	10 ( 9' ) (H9 mg/ Result 17600	Reporting Limit 16.0  H902292-05)	Analyzed 07/05/2019	Method Blank		,	•		Qualifier
Sample ID: BORE HOLE # 1 Chloride, SM4500CI-B Analyte	Result 17600	Reporting Limit 16.0  H902292-05)	Analyzed 07/05/2019	Method Blank ND		,	•		Qualifier

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 11 ( 2' ) (H902292-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: ROPE HOLE #	· 11 / 2' \/W	20222-071							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	: 11 ( 3' )(H:	=	Analyze	d By: AC					
		=	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 11 ( 4' ) (H902292-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 11 ( 5' ) (H902292-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 11 ( 6' ) (H902292-10)

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Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/05/2019	ND	400	100	400	0.00	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 11 ( 7' ) (H902292-11)

Sample 1D: BORE HOLE # 1	. , ,	/1		d D A C					
Chloride, SM4500Cl-B	mg	/кд	Anaiyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 1	`	•	Analyze	d Bv: AC					
Sample ID: BORE HOLE # 1 Chloride, SM4500Cl-B	L1 ( 8' )(H	•	Analyze	d By: AC					
•	`	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 11 ( 9' ) (H902292-13)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 12 ( 0-1' ) (H902292-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 12 ( 2' ) (H902292-16)

		,							
Chloride, SM4500Cl-B	mg	j/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/05/2019	ND	400	100	400	0.00	

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**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

COG - EDDY CO NM Project Location:

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	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE #	12 ( 4' )(H	902292-18)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
					D.C.	0/ D	T 1/-l 00	DDD	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte  Chloride	Result	Reporting Limit	Analyzed 07/05/2019	Method Blank	400	% Recovery	400	0.00	Qualifier

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	07/05/2019	ND	416	104	400	0.00	QM-07

## Sample ID: BORE HOLE # 12 ( 6' ) (H902292-20)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/05/2019	ND	416	104	400	0.00	

## Sample ID: BORE HOLE # 12 ( 7' ) (H902292-21)

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Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	07/05/2019	ND	416	104	400	0.00	

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901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 12 ( 8' ) (H902292-22)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE # 12 Chloride, SM4500Cl-B	2 ( 9' )(H	-	Analyze	ed By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/05/2019	ND	416	104	400	0.00	

## Sample ID: BORE HOLE # 13 ( 0-1' ) (H902292-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/05/2019	ND	416	104	400	0.00		

## Sample ID: BORE HOLE # 13 ( 2' ) (H902292-25)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	64.0	16.0	07/05/2019	ND	416	104	400	0.00			

## Sample ID: BORE HOLE # 13 ( 3' ) (H902292-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/05/2019	ND	416	104	400	0.00	

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901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (4/17/19)

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #	13 ( 4' ) (H	902292-27)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE #	ple ID: BORE HOLE # 13 ( 5' ) (H902		-						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE #	13 ( 6' )(H	902292-29)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE #	13 ( 7' )(H	902292-30)							
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Chioride, SM4500CI-B	mg	/kg	Analyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/05/2019	ND	416	104	400	0.00	

# Sample ID: BORE HOLE # 13 ( 8' ) (H902292-31)

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Chloride, SM4500CI-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	07/05/2019	ND	416	104	400	0.00	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 13 ( 9' ) (H902292-32)

	3 ( 9 ) (H9U2292-32) mg/kg		Analyzed By: AC						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE # 13 Chloride, SM4500Cl-B	`	,	Analyze	d By: AC					
•	`	H <b>902292-33)</b> /kg	Analyze	d By: AC					
•	`	,	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 14 ( 0-1' ) (H902292-34)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	416	104	400	0.00	

## Sample ID: BORE HOLE # 14 ( 2' ) (H902292-35)

Chloride, SM4500Cl-B	ide, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2019	ND	416	104	400	0.00	

# Sample ID: BORE HOLE # 14 ( 3' ) (H902292-36)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	416	104	400	0.00	

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901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 14 ( 4' ) (H902292-37)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2019	ND	416	104	400	0.00	
Sample ID: BORE HOLE #	# 14 ( 5' )(H	902292-38)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2019	ND	416	104	400	0.00	

## Sample ID: BORE HOLE # 14 ( 6' ) (H902292-39)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 15 ( 0-1' ) (H902292-40)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 15 ( 2' ) (H902292-41)

	-								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	07/05/2019	ND	416	104	400	3.77	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/05/2019	ND	416	104	400	3.77	
Sample ID: BORE HOLE #	‡ 15 ( 4' )(H	902292-43)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	# 15 ( 4' )(H	-	Analyze	d By: AC					
•		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 15 ( 5' ) (H902292-44)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 15 ( 6' ) (H902292-45)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 15 ( 7' ) (H902292-46)

Jup. 22. 2	0.112 0.12	,								
Chloride, SM450	SM4500CI-B mg/kg			Analyze	d By: AC					
Ana	yte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		1490	16.0	07/05/2019	ND	416	104	400	3.77	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 15 ( 8' ) (H902292-47)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC	BS % Recovery				
Analyte	Result	Reporting Limit	Analyzed	Method Blank		True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/05/2019	ND	416	104	400	3.77	
Sample ID: BORE HOLE #	‡ 15 ( 9' )(H	902292-48)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
. ,		reporting Linne	7,200	ricaioa Biaint	50	70 11000101	uc raiuc qc	5	Qualifici

## Sample ID: BORE HOLE # 16 ( 0-1' ) (H902292-49)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 16 ( 2' ) (H902292-50)

Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2019	ND	416	104	400	3.77	

# Sample ID: BORE HOLE # 16 ( 3' ) (H902292-51)

	( ) (	,							
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	07/05/2019	ND	416	104	400	3.77	

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Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (4/17/19)

Project Location: COG - EDDY CO NM

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2019	ND	416	104	400	3.77	
Sample ID: BORE HOLE #	: 16 ( 5' )(H	902292-53)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2019	ND	416	104	400	3.77	

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 17 ( 0-1' ) (H902292-55)

Chloride, SM4500CI-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	07/05/2019	ND	416	104	400	3.77	

## Sample ID: BORE HOLE # 17 ( 2' ) (H902292-56)

oumple is route more # 1	, ( <del>-</del> )(	, , ,							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	07/05/2019	ND	416	104	400	3.77	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Project Number: Sample Received By: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #	, , ,	-							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	oride 8240		07/05/2019	ND	416	104	400	3.77	
Sample ID: BORE HOLE #	E HOLE # 17 ( 4' ) (H902292-58)		Analyzed By: AC						
Chloride, SM4500Cl-B			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	9600 17 ( 5' ) (H9	16.0 902292-591	07/05/2019	ND	416	104	400	3.77	
Sample ID: BORE HOLE #	17 ( 5' )(H9	902292-59)	, ,		416	104	400	3.77	
Chloride, SM4500Cl-B	17 ( 5' )(H9	902292-59) kg	Analyze	d By: AC					Qualifica
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte	17 ( 5' ) (H9 mg/	902292-59) (kg Reporting Limit	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	17 ( 5' )(H9	902292-59) kg	Analyze	d By: AC					-
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte	17 ( 5' ) (H9 mg/ Result 10100	<b>902292-59)</b> Ikg  Reporting Limit  16.0	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	-
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte Chloride	17 ( 5' ) (H9 mg/ Result 10100	002292-59) (kg  Reporting Limit  16.0  002292-60)	Analyzed 07/05/2019	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier QM-07
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte Chloride Sample ID: BORE HOLE #	17 ( 5' ) (H9 mg/ Result 10100	002292-59) (kg  Reporting Limit  16.0  002292-60)	Analyzed 07/05/2019	d By: AC  Method Blank  ND	BS	% Recovery	True Value QC	RPD	-

# Sample ID: BORE HOLE # 17 ( 7' ) (H902292-61)

Jumpic 15: Built ille 11 / 17	· · / ····	· · · · · · · · · · · · · · · · · · ·							
Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	07/05/2019	ND	400	100	400	0.00	

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 17 ( 8' ) (H902292-62)

Chloride, SM4500Cl-B	mg	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 17	( 9' )(H	902292-63)							
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	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 17 Chloride, SM4500Cl-B	( 10' ) (I	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 17	( 11' )(I	H902292-65)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # 17	( 12' )(I	H902292-66)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/05/2019	ND	400	100	400	0.00	

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0.00



## Analytical Results For:

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 17 ( 13' ) (H902292-67)

Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE #	: <b>17 ( 14</b> ' )(I	H902292-68)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 18 ( 0-1' ) (H902292-69)

2960

16.0

Chloride

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	07/05/2019	ND	400	100	400	0.00	

ND

400

100

07/05/2019

## Sample ID: BORE HOLE # 18 ( 2' ) (H902292-70)

Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	07/05/2019	ND	400	100	400	0.00	

# Sample ID: BORE HOLE # 18 ( 3' ) (H902292-71)

Chloride, SM4500Cl-B	mg/kg			d By: AC					
	9/	, <del>.</del>	Analyze	u 57. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	07/05/2019	ND	400	100	400	0.00	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 18 ( 4' ) (H902292-72)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE # Chloride, SM4500CI-B	# 18 ( 5' )(H:	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 18 ( 6' ) (H902292-74)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 18 ( 7' ) (H902292-75)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/05/2019	ND	400	100	400	0.00	

## Sample ID: BORE HOLE # 18 ( 8' ) (H902292-76)

Jumpie 15: 50kt ilott # 1									
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	07/05/2019	ND	400	100	400	0.00	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Project Number: Sample Received By: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #		_							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	07/05/2019	ND	400	100	400	0.00	
	RE HOLE # 18 ( 10' ) (H902292-78		Analyzed By: AC						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/05/2019	ND	400	100	400	0.00	
Sample ID: BORE HOLE #	18 ( 11' )(H	1902292-79)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/05/2019	ND	400	100	400	3.92	QM-07
Sample ID: BORE HOLE #	18 ( 12' )(H	1902292-80)							
Chloride, SM4500Cl-B	mg,	-	Analyzed By: AC						
	5 "			M.II. LBI. I	DC.	0/ 5	T 1/1 00	DDD	0 1:5

Chioride, SM4500CI-B	mg	/ <b>kg</b>	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	07/05/2019	ND	400	100	400	3.92	

# Sample ID: BORE HOLE # 18 ( 13' ) (H902292-81)

	· ( ==								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/05/2019	ND	400	100	400	3.92	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 18 ( 14' ) (H902292-82)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	‡ 18 ( 15' )(I	H902292-83)							
Sample ID: BORE HOLE # Chloride, SM4500CI-B	‡ 18 ( 15' )(I	•	Analyze	d By: AC					
•	, ,,	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 19 ( 0-1' ) (H902292-84)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 19 ( 2' ) (H902292-85)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 19 ( 3' ) (H902292-86)

Jumpic 15: Dokt Holl # 1	(	01111							
Chloride, SM4500CI-B	mg/	mg/kg Analyzed By							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	07/05/2019	ND	400	100	400	3.92	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 19 ( 4' ) (H902292-87)

	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 1	L9 ( 5' ) (H	902292-88)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 1	19 ( 6' ) (H	902292-89)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	7600	16.0	07/05/2019	ND	400	100	400	3.92	

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	8000	16.0	07/05/2019	ND	400	100	400	3.92		

Cardinal Laboratories *=Accredited Analyte

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



## **Notes and Definitions**

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

MMc Songh

	Relinquished by:	Relinquished by:			10	٩	a	٢	6	U Bo	T	w	12	rs)	( LAB USE )	LAB#	tocoph	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	큐	Alialysis nequest of
	Date: Time:	Date: Time:	mp-2mg 7/3/5	Date: Time:	6	δ,	Ч'	3'	2'	Boraholet 11 (0-1)	4 10'	7	8'	Borchale #10 (7')		SAMPLE IDENTIFICATION			ry: Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.	dest of citalii of custody necord
ORIGINAL COPY	Received by:	Received by:	Mouran	Received by:	4								-	7/2/19	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
	Date: Time:	Date/ Time:	Midaloge 7-3-1	Date: Time:	4										WATEI SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland,Texas 79705 Tei (432) 682-4559 Fax (432) 682-3946	
(Circle) HAND (ELIVEPED	3.40	Sample Temperature	19 12:15 ONLY	LAB USE	4									- 2	# CONT FILTERI BTEX 8 TPH TX TPH 80 PAH 82	ED (Y 021B 1005 15M (	/N) BTE			MRO)					
ŒLLVE∯ÈD FEDEX UPS Tracking#:		reture New York: Same Day 24 b) 48 hr 72 hr	STANDARD	REMARKS	S									×	Total Me TCLP Me TCLP Ve TCLP Se RCI GC/MS S PCB's 8 NORM PLM (Asi Chloride General Anion/Ca	vol. 8 Semi. 082 /	Ag As B solatiles 260B / Vol. 82 608 ss)	a Cd Cr 624 770C/628 TDS nistry (se	Pb Se	Hg	1)	Circle of specify Method No.)	ANALYSIS REQUEST		Page 10
		ar .													Hold										of 24

	Teimquisned by:	delinquished by:	1	Relinquished by:	19	8	Ľ	16	in R	14	13	12		( LAB USE )	LAB#	Haorza 2	Comments:	deceiving Laboratory:	nvoice to:	county, state)	Project Name:	Client Name:	7
	Date: Time:		Margary 2/3/14		S	H)	31	2'	Borchole #12 (0-1)	10'	Ą	81	Barcholc#11 (71)		SAMPLE IDENTIFICATION			". Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.
ORIGINAL COPY	Received by:	Received by:	heceived by:	4					7/1/19	4			り着し	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Ϋ́	Date:	Date:	ra Alda	4								-	×	WATEI SOIL HCL	R	MATRIX		Conner Moehring		Pending		Clair Gonzales	901W Wall S Midland,T Tel (432) Fax (432
	Time:	a: Time:	ENC 7.3R	4									×	HNO ₃ ICE None		PRESERVATIVE METHOD		Moehring				les	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
			12:15	4									2	# CONT		-							
(Circle)		Sample	-										-	BTEX 80									
(Circle) HAND DELIVERED	3.40	Sample Temperature	ONLY											TPH 80°		GRO -	DRO - C	)RO - M	MRO)		=_		
DELLA	60	rature	H SE											Total Me TCLP Me							_ C		
A A														TCLP Vo	latiles	3	a Gu Ci	r b Se	rig		_ e		
FEDEX	S	Rush Charges Auth	REMARKS:								_		_	TCLP Se	emi Vo	olatiles					- 0	ANALYSIS	
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Trac	ort Lir	ne Da es Au	)ARI											NORM	0027	000					- Vet	REQUEST	
Tracking #:	nits o	9	U	4			$\exists$			-			_	PLM (Asl Chloride	bestos	s)					Method	TS	
l i	TRI	ized (A)		<									-	Chloride	Su	ilfate	TDS				- NO.		
	Special Report Limits or TRRP Report	48 hr											$\overline{}$	General				e atta	ched list	t)	_ = =		
	port													Anion/Ca	alion i	Balanci	в				-		
		72 hr																			_		
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-1-4					1				1					1010									

	elinquished by:	elinquisned by:	3	30	29	25	27	24	25		23	22	21 P	LAB USE )	1	40,77,97	omments:	eceiving Laboratory:	tvoice to:	roject Location: county, state)	roject Name:	lient Name:	7
	Date: Time:	Date: Time:	andry 7/3/15	· → ¬ · · · · · · · · · · · · · · · · ·	6	ν	4,	3.	2'	Barehole # 13 (o-i)	4	8%	Borchare #12 (7)		SAMPLE IDENTIFICATION			: Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.
ORIGINAL COPY	Received by:	Received by:	humbha d	4					-	7/2/19	4		7/1/19	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
	Date: Time:	✓ Date: Time:	Makin 7-319	_									× ×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
(Circle)			12:15	<del>-</del>									- 2	# CONT FILTER BTEX 8 TPH TX	ED (Y 021B	RS (/N) BTE:	X 8260E C35)	3					
(Circle) HAND DELIVERED FEDEX UPS	3.42 Special Rep	Sample Temperature  Rush: Same Day  Rush Charges Auth	ONLY REMARKS:  ONLY STANDARD											TPH 80 PAH 82 Total Me TCLP M TCLP Vc TCLP Se RCI GC/MS V	70C etals A etals A etals A elatiles emi Vo Vol. 8 Semi.	g As Ba Ag As B Solatiles 260B / Vol. 82	a Cd Cr I a Cd Cr	Pb Se F	łg		(Circle of Specify	ANALYSIS RE	
Tracking #:	Special Report Limits or TRRP Report	RUSH: Same Day (4 hr) 48 hr 72 hr Rush Charges Authorized		_ ∀ _									×	PCB's 8 NORM PLM (As Chloride Chloride General Anion/Ca	bestos Su Wate	s) ilfate r Chen		ee attad	ched lis	1)	Method No.)	REQUEST	
		4												Hold							=		-

	Relinquished by:	Relinquished by:	Bru maden	Relinquished by:		39	38	37	36		12 P	38	32		( LAB USE )	LAB#	LONDON	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	Andreas incharac
	Date: Time:	Date: Time:	my 7/3/19		Borchale # 15 [p-1]	ତ	5'	'41	3'	2'	Borchol, # 14 (o-1)	(0)	4	Borehole # 13 (81)		SAMPLE IDENTIFICATION			Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.	or origin or outside income
ORIGINAL COPY	Received by:	Received by:	Jamors 1	Received by:	4						7)1)15	4		7/2/19	DATE TIME	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
Y	Date: Time:	Date: Time:	7	Date: Time:	4									×	WATE SOIL HCL HNO ₃ ICE	R	MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 882-4559 Fax (432) 682-3946	
(C:	,e		19 12:15		<del>\</del>									-	# CONT FILTER BTEX 8	ED (Y	RS (/N)	X 8260E							
(Circle) HAND DELIVERED	53 40	Sample Temperature #97	ONLY												TPH TX TPH 80 PAH 82 Total Me TCLP M	15M ( 70C etals A	GRO - g As Ba Ag As B	DRO - 0	Pb Se I	Hg			AN		
) FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	TANDARD	REMARKS:											TCLP Se RCI GC/MS S GC/MS S PCB's 8 NORM PLM (As Chloride	Vol. 8 Semi. 1082 /	260B / Vol. 82 608 s)	70C/62				pecity mentod No.	LYSIS REQUEST		raye
	₹P Report	48 hr 72 hr													General Anion/C	_			ee atta	ched lis	it)				01 01

Relinquished by: Relinquished by: Relinquished by: Comments: Receiving Laboratory: nvoice to: Project Location: Project Name: Client Name: Analysis Request of Chain of Custody Record LAB USE former my order 4 48 45 Borcholet Berehole COG Cardinal Eddy Co, NM RJ Unit 108 (4.17.19) Attn: COG - Ike Taverez 8 Tetra Tech, Inc. SAMPLE IDENTIFICATION 0-1) 2 ť W 2 6 S 8 7/3/19 Date: Date: Date: Time: Time: Time: ORIGINAL COPY Received by: Received by: Sampler Signature: Received by: Project #: Site Manager: EAR: 2019 DATE 33 SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL X 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Conner Moehring Date: HCL PRESERVATIVE METHOD HNO₃ ICE Time: None # CONTAINERS 2 FILTERED (Y/N) Sample Temperature (Circle) HAND DELIVERED FEDEX UPS BTEX 8021B BTEX 8260B 本という。 TPH TX1005 (Ext to C35) LAB USE TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles REMARKS: ANALYSIS REQUEST RUSH: Same Day (24 hr) 48 hr 72 hr TCLP Semi Volatiles Special Report Limits or TRRP Report Rush Charges Authorized RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM Page PLM (Asbestos) Chloride No TDS Chloride Sulfate General Water Chemistry (see attached list) Anion/Cation Balance 千 오, 20 Hold

	Helinquished by:	Helinquished by:	Comman	Relinquished by:	202	85	57	56	55	45	53	52	51	( LAB USE )	LAB#	H902292	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7
	Date: Time:	Date: Time:	arly 7/3/12	₩ G'  Date: Time:	S. S.	د	3.	2'	Borchair # 17 (0-1)	€.	5'	4.	Borchele #16 (3')		SAMPLE IDENTIFICATION			r: Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.
ORIGINAL COPY	Received by:	Received by:	башака	Received by:					7/2/15	+			7/1/4	DATE TIME	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
	Date: Time:	Date/ Time:	allabar 7.3.	N Date: Time:									х х	WATER SOIL HCL HNO ₃ ICE None		MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
(Circle) H	"	Sample To	12:15										Ž	# CONTA FILTEREI BTEX 802 TPH TX10	D (Y 21B 005 (	RS /N) BTE			(BO)				
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	3.4° Special Report Limits or TRRP Report	Sample Temperature    X RUSH: Same Day (24 hr) 48 hr 72 hr   H97   Rush Charges Authorized	ONLY STANDARD										×	TPH 8015 PAH 8270 Total Meta TCLP Meta TCLP Vola TCLP Serr RCI GC/MS Vola GC/MS Ser PCB's 808 NORM PLM (Asbet Chloride Chloride General W Anion/Cati	oc als A als	g As Bag	a Cd Cr F a Cd Cr 624 70C/625 TDS aistry (se	Pb Se H	lg Hg	)	(Circle or Specify Method No.)	ANALYSIS REQUEST	
														Hold							_		

		Relinquished by:	Relinquished by:	Relinquished by:	70		89	67	66	65	104	63	62		( LAB USE )	LAB#	H902292	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	Analysis Request
			7/3/15	Jain	12 4	Borchelc#18 (0-1)	141	13'	121	II.	10,	٩١	ω	Borchole# 17 (7)		SAMPLE IDENTIFICATION			Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
OBIGINAL CORY	Tools of the	Repression by	Received by:	Received by:	4									7/2/15	DATE TIME	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
V	Date. III			Date: Tir	<i>-</i>									×-×	WATER SOIL HCL HNO ₃ ICE	R	MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Cir	i.		3.19 /2:15	Time:	< <									- Z	# CONT FILTERE BTEX 80	ED (Y	RS '/N)	X 8260B						100	
(Circle) HAND DELIVERED F	3.40	Sample Temperature 497		LAB USE REMARKS:											TPH TX TPH 801 PAH 827 Total Me TCLP Me TCLP Vo TCLP Se	15M ( 70C tals A etals A latiles	GRO - g As Ba Ag As B	DRO - O	b Se F	lg		(Circle or			
FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	0	STANDARD	RKS:	<								7		GC/MS V GC/MS S PCB's 80 NORM PLM (Ast Chloride	Semi. 082 /	Vol. 82 608					Specify Method	ANALYSIS REQUEST		Page
	r TRRP Report	rízed	Ĉ.												Chloride Chloride General Anion/Ca	Wate			e attac	ched list	)				in the of
					T							1		Ħ	Hold							-			71

Analysis Request of Chain of Custody Record relinquished by: Relinquished by: Relinquished by: Comments: Receiving Laboratory: Invoice to: county, state) roject Name: Client Name: H902292 roject Location Jonner LAB # 혀 5 3 Borchole # cog Cardinal Eddy Co, NM RJ Unit 108 (4.17.19) Attn: COG - Ike Taverez 18 Tetra Tech, Inc. SAMPLE IDENTIFICATION W 2 6 S -0 DA 0 12 7/3/19 Date: Date: Time: Time: ORIGINAL COPY Sampler Signature: Site Manager: Received by: Received by: Project #: 7/2/19 EAR: 2019 DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL Conner Moehring 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE HNO₃ ICE Time: None # CONTAINERS 2 FILTERED (Y/N) Sample Temperature BTEX 8260B BTEX 8021B (Circle) HAND DELIVERED TPH TX1005 (Ext to C35) CAB USE 3.40 TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles **ANALYSIS REQUEST** X RUSH: Same Day TCLP Semi Volatiles Rush Charges Authorized FEDEX UPS Special Report Limits or TRRP Report RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM PLM (Asbestos) (4 hr) 48 hr 72 hr Chloride TDS Chloride Sulfate General Water Chemistry (see attached list) man of Anion/Cation Balance Hold

Allalysis nequest	Alialysis nequest of chain of custody Record					1	1	1	1	1			1		7	Page		JAM O	of 24
7	Tetra Tech, Inc.		901W Wa Midlanc Tel (4: Fax (4	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946															
Client Name:	COG	Site Manager:	Clair Gonzales	zales						AN	ANALYSIS	SIS		REQUEST	ES	7			
Project Name:	RJ Unit 108 (4.17.19)						-	_ î	- 2	_ e		Speci	_₹	_ <b>s</b>	Method		N		-
Project Location: (county, state)	Eddy Co, NM	Project #:	Pending	g		_													
Invoice to:						J	0)								-			d list)	
	Attn: COG - Ike Taverez						MRC		-		-							che	
Receiving Laboratory:	Cardinal	Sampler Signature:	Conner	Conner Moehring			RO - N											e attac	
Comments:						8260B	035) DRO - OI	Cd Cr P	Cd Cr F			24	70C/625				TDS	istry (see	
190229 P		SAMPLING	MATRIX	PRESERVATIVE METHOD		BTE		- A- D			latties	260B/		308	3)		lfate		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2019	R		-	021B					mi vc	/ol. 8		0827	bestos		Su	_	
( LAB USE )		DATE TIME	WATE	HCL HNO ₃ ICE None	# CONT	FILTER BTEX 8	TPH TX	PAH 82		TCLP Vo	TCLP Se	GC/MS \		PCB's 8	PLM (As	Chloride	Chloride	General Anion/Ca	lold
31 Boronole#	1010# 18 (13')	7/2/15	×	X	-			_	_	-	_		_	_	_	_		_	1
	1 (141)	1	-								+			+	+	_			
83	√ (15')										+			+	+	+			
84 Borehove	) 生15 (0-1)													=		-			
28	2"									4	7			$\dashv$	-	=			
26	31									-				-					
187	ų!												-	-		_			
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Common oy:	$\frac{1}{3/15}$	Received by:	Mult	Time: 7-3:	19 12:	2	LAB USE	AB USE	2.7	REMARKS:	L A	ST	STANDARD	) AF	g				
Relinquished by:	Date: Time:	Received by:	Da	Daté: Time:			Sample Temperature	nperat	ure		XRUSH: Same Day	HS	Sa	me [	Day	(2)	(3)	48 hr 72 hr	7
Relinquished by:	Date: Time:	Received by:	Da	Date: Time:		_	w.	to?		ПЕ	S F	Special Report Limits or T	Rep	ort	Jimit Cim	s or	TRA	Special Report Limits or TRRP Report	
		OBICINAL CORY				(Circ	(Circle) HAND DELIVERED	ND DE	LIVER		FEDEX		UPS		Tracking #:	#:			



July 05, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: RJ UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 19 ( 8' ) (H902293-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # :		_							
Chloride, SM4500CI-B	mg,	икд	Anaiyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	07/05/2019	ND	400	100	400	3.92	
C	10 ( 10) \ (1	1000000 00)							
Sample ID: BORE HOLE # :		-	Ab	d D 40					
Chloride, SM4500CI-B	mg	/kg	•	d By: AC		0/ 0	T. W.L. 00		0 15
		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B  Analyte	mg	/kg	•		BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500Cl-B  Analyte  Chloride	Result 3280	Reporting Limit	Analyzed	Method Blank		•			Qualifier
Chloride, SM4500Cl-B  Analyte	Result 3280	Reporting Limit 16.0 1902293-04)	Analyzed 07/05/2019	Method Blank		•			Qualifier
Chloride, SM4500Cl-B  Analyte  Chloride  Sample ID: BORE HOLE # :	mg, Result 3280 19 ( 11' ) (F	Reporting Limit 16.0 1902293-04)	Analyzed 07/05/2019	Method Blank ND		•			Qualifier Qualifier

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901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	19 ( 13' )(I	H902293-06)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	19 ( 13' )(i	-	Analyze	d By: AC					
-		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: BORE HOLE # 19 ( 14' ) (H902293-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 19 ( 15' ) (H902293-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	07/05/2019	ND	400	100	400	3.92		

## Sample ID: BORE HOLE # 19 ( 16' ) (H902293-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/05/2019	ND	400	100	400	3.92	QM-07

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Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE # Chloride, SM4500Cl-B	, , ,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/05/2019	ND	400	100	400	3.92	
•	, , ,	,							
•	19 ( 18' ) (F	,	Analyze	d By: AC					
•	, , ,	,	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500CI-B  Analyte Chloride	mg	/kg	•		BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 19 ( 20' ) (H902293-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 19 ( 21' ) (H902293-14)

Jumpie 15. June 11									
Chloride, SM4500CI-B	mg	mg/kg  Result Reporting Limit		Analyzed By: AC					
Analyte	Result			Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	07/05/2019	ND	400	100	400	3.92	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

## Sample ID: BORE HOLE # 20 ( 0-1' ) (H902293-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 20		-							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 20		-							
Chloride, SM4500Cl-B	mg	/кд	Anaiyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 20	) ( 4' ) (H	902293-18)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 20	) ( 5' )(H	902293-19)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	07/05/2019	ND	400	100	400	3.92	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (4/17/19)

COG - EDDY CO NM Project Location:

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2240	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE #	# 20 ( 7' )(H	902293-21)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	# 20 ( 7' )(H!	•	Analyze	d By: AC					
•	, , ,	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 20 ( 9' ) (H902293-23)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/05/2019	ND	400	100	400	3.92	

## Sample ID: BORE HOLE # 20 ( 10' ) (H902293-24)

	) (-									
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC							
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	07/05/2019	ND	400	100	400	3.92		

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 20 ( 11' ) (H902293-25)

		-							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/05/2019	ND	400	100	400	3.92	
Sample ID: BORE HOLE # 20	) ( 12' ) (	H002202 26)							
	, , <del>, ,</del> , , ,	<b>1902293-20</b> )							
Chloride, SM4500CI-B	mg	,	Analyze	d By: AC					
Chloride, SM4500CI-B  Analyte	` , `	,	<b>Analyze</b> Analyzed	ed By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 21 ( 0-1' ) (H902293-27)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2019	ND	400	100	400	3.92	

### Sample ID: BORE HOLE # 21 ( 2' ) (H902293-28)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	07/05/2019	ND	400	100	400	3.92	

### Sample ID: BORE HOLE # 21 ( 3' ) (H902293-29)

		,							
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/05/2019	ND	400	100	400	7.69	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE # 21		-							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	( 5' )(H	902293-31)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	( 6' )(H	902293-32)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	( <b>7</b> ' )(H	902293-33)							
-: •	, (	,							

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/05/2019	ND	400	100	400	7.69	

### Sample ID: BORE HOLE # 21 ( 8' ) (H902293-34)

Jumpio 15: Bottle ilolle // 11	( - )(								
Chloride, SM4500Cl-B	mg/kg Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	07/05/2019	ND	400	100	400	7.69	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 21 ( 9' ) (H902293-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	. ( 10' )(I	H902293-36)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21 Chloride, SM4500CI-B	. ( 11' )(I	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	. ( 12' )(I	H902293-38)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE # 21	. ( 13' )(I	H902293-39)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8880	16.0	07/05/2019	ND	400	100	400	7.69	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

Project Location: COG - EDDY CO NM

Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: AC						
Analyte  Chloride	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE #	# 21 ( 15' )(H	1902293-41)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	# <b>21 ( 15</b> ' )(F	-	Analyze	d By: AC					
•		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 21 ( 16' ) (H902293-42)

Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	07/05/2019	ND	400	100	400	7.69	

### Sample ID: BORE HOLE # 21 ( 17' ) (H902293-43)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	07/05/2019	ND	400	100	400	7.69	

### Sample ID: BORE HOLE # 21 ( 18' ) (H902293-44)

oumpio ID: Doite note # II	. ( == ) (.	,							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	07/05/2019	ND	400	100	400	7.69	

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Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Sample Received By: Project Number: (4/17/19)Tamara Oldaker

COG - EDDY CO NM Project Location:

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE #	: 22 ( 2' )(H	902293-46)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	400	100	400	7.69	
Sample ID: BORE HOLE #	: 22 ( 3' )(H	902293-47)							
	ma	/kg	Analyze	d By: AC					
Chloride, SM4500CI-B									
Chloride, SM4500CI-B  Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 22 ( 4' ) (H902293-48)

Chloride, SM4500CI-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	07/05/2019	ND	400	100	400	7.69	

### Sample ID: BORE HOLE # 22 ( 5' ) (H902293-49)

Jumpic 15. 501(1.1011 // 1	(	,							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2019	ND	432	108	400	0.00	

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

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/02/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 22 ( 6' ) (H902293-50)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	<b># 23 ( 0-1</b> ' )(	H902293-51)							
Sample ID: BORE HOLE # Chloride, SM4500CI-B	# 23 ( 0-1' ) (	•	Analyze	d By: AC					
		•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 23 ( 2' ) (H902293-52)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/05/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 23 ( 3' ) (H902293-53)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 23 ( 4' ) (H902293-54)

Jumpio IDi Dona iliona il 10	( , )(	,,							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/05/2019	ND	432	108	400	0.00	

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TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/03/2019 Sampling Date: 07/01/2019

Reported: 07/05/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: (4/17/19) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 23 ( 5' ) (H902293-55)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	23 ( 6' )(H	902293-56)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	23 ( 7' )(H	902293-57)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	13 ( 11' )(H	1902293-58)							
Chloride, SM4500Cl-B	mg,	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Cardinal Laboratories *=Accredited Analyte

ND

432

108

07/05/2019

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Mile Sough

Chloride

688

16.0

0.00

400



### **Notes and Definitions**

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

recovery.

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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Mile Single

	Relinquished by:	neiinquisited by:	Brum my	Relinquished by:	5 4	8	1	6	C	4	C	10		( LAB USE )	LAB#	محرما	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7
	Date: Time:	Date: Time:	J3/19		15.	150	141	131	12'	T.C.	16"	51	Borcholc #19 (8")		SAMPLE IDENTIFICATION			Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	COG	Tetra Tech, Inc.
ORIGINAL COPY	Received by:	Heceived by:	Jamora	Received by:									7/2/19	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Y	Date: Time:	Date. Time:	8,	Date: Time:									X	WATER SOIL HCL HNO ₃ ICE None		MATRIX PRESERVATIVE METHOD		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
(Circle) HAND DELIVERED	24 22	Sample Temperature	19 12:15 ONLY	<									2	# CONTA FILTERE BTEX 80 TPH TX1 TPH 801 PAH 827	21B 005 5M (	RS //N) BTE: (Ext to	DRO - C	RO - N			- 6		
ELIVERED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Autho	STANDARD	BEMARKS:										Total Meta TCLP Wel TCLP Ser RCI GC/MS VI GC/MS SI PCB's 80 NORM PLM (Asb	tals A atiles mi Vo ol. 8 emi.	Ag As B blatiles 260B / Vol. 82	a Cd Cr 624	Pb Se			Circle or Specify Method	ANALYSIS REQUEST	
	TRRP Report	(24 hr) 48 hr 72 hr rized												Chloride General V Anion/Ca	Vate	r Chen		e attac	ched list	t)		G.	

Alialysis nequest	of criain of custody Record																P	Page	2	20 9060	3	of		24
4	Tetra Tech, Inc.			901W W Midlar Tel ( Fax (	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946		- 1						- 1	914					1.	1		- 1	1.	
Client Name:	COG	Site Manager:	0	Clair Gonzales	zales						<b>D</b>	ANALYSIS	138		REQUEST	2	LS.	-			- 1			
Project Name:	RJ Unit 108 (4.17.19)	Ī			I			_		Circle		- 9	Speci	_ 0	_ <	Method	— <del>克</del>		- N	ت	-	-	-	7
Project Location: (county, state)	Eddy Co, NM	Project #:		Pending	ŭ						_				_							-		
Invoice to:	Attn: COG - Ike Taverez								RO)		g									ed list)				
Receiving Laboratory:		Sampler Signature:	ure:	Conne	Conner Moehring				RO - M		b Se H			_						attach				
Comments:							8260B	35)	DRO - OF		Cd Cr P				00/025				TDS	stry (see				
50220PH		SAMPLING	ING	MATRIX	PRESERVATIVE METHOD	RS		Ext to 0	GRO -		g As Ba	atiles					)		31 2010		alance			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2019		1		AINE		005 (				20000				Ju / 0	estos			-	tion B			
( LAB USE )		DATE	TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONT/	FILTERE	TPH TX1	TPH 801 PAH 827	Total Met	TCLP Me TCLP Vol	TCLP Ser	RCI	GC/MS V	GC/MS Si PCB's 80	NORM	PLM (Asb	Chloride	Chloride	General V	Anion/Ca			lold
11 Borchole#	SICH 19 (181)	7/2/19		X	*		-		_	_	_	-	_	_	_	_		X	_		-		1	1
12	اد			-		-	-				4	7		-	+			` ب		4	-	+	1	+
E.	201													-	+	+					+			+
ナ	V 21'													-	-	-								$\dashv$
15 Borchele	ole # 76 (0-1)								H															
6	7										3				$\dashv$	$\exists$				_	$\dashv$	+		+
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19	5'										+			+				4	1	1	+	+		+
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Comment of	ochry 7/3/14	Received by:	JI was	The same	Date: Time:	1.41 6	9	OF	LAB USE	SE	D	REMARKS:	RKS	ALS.	STANDARD	AR	0					H	1	1
Relinquished by:	Date: Time:	Received by:		(0	Date: Time:		S	Sample Temperature	O emp	rature		K	RUS	Ĭ	X RUSH: Same Day	ne D		24 hr	(3)	48 hr		72 hr	,	
Relinquished by:	Date: Time:	Received by:		D	Date: Time:			Ch	50	60			Spe	oial P	Special Report Limits or TRRP Report	DIT L	mits	orT	R. '	P D	epor			
							ĉ	(Circle) HAND DELIVERED	AND	DELLI	/ERE		FEDEX	~	UPS	Trac	Tracking #:	.#:						1
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급	Tetra Tech, Inc.		901W W Midla Tel Fax	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946						
Client Name:	006	Site Manager:	Clair Gonzales	nzales			ANALYSIS	REQUEST		
Project Name:	RJ Unit 108 (4.17.19)					(Circ	le or Specify	y Method No.	_ <u>.</u> 	-
Project Location: (county, state)	Eddy Co, NM	Project #:	Pending	ng						
Invoice to:	Attn: COG - Ike Taverez					g	ıy		hed list	
Receiving Laboratory:	Cardinal	Sampler Signature:		Conner Moehring		b Se H	0.361		e atlac	
Comments:						X 8260B C35) DRO - O a Cd Cr P a Cd Cr F		TDS	nistry (se	
H902293		SAMPLING	G MATRIX	PRESERVATIVE METHOD		(Ext to GRO -	olatiles 260B /	608		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2019	R			1005 ( 15M ( 70C tals A	olatiles emi Vo /ol. 8:	082 / (	_	
( LAB USE )		DATE	WATE SOIL	HCL HNO ₃ ICE None	# CONT	PAH 82 Total Me	TCLP Vo TCLP Se RCI GC/MS \	PCB's 8 NORM PLM (As Chloride	General Anion/Ca	Hold
21 Benehole	(+ 2C 7)	7/2/15	_ ×	×				×	_	
2	8'	_	_		_					1
23	ځ:									
24	(0)									
25	- ""									
26	V 12	<u></u>	× a							
27 Borehove	(2 # 2) (0-1')	7/1/19								
28	2'									
29	3'									
S	A 41.	<b>\</b>		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>∀</b>			<		
Relinquished by:	7/3/ici Time:	Received/by:	AND ON	Date: Time:	19 12:15	LAB USE	REMARKS:	STANDARD		
Relinquished by:	Date: Time:	Received by:	X	Date: Time:		Sample Temperature	RUSH: Same Day	Same Day (24 hr	)48 hr 72 hr	
Relinquished by:	Date: Time:	Received by:		Date: Time:		500	Special F	Special Report Limits or TRRP Report	RP Report	
						(Circle) HAND DELIVERED	EREN FEDEX UPS	PS Tracking #:		

ORIGINAL COPY

Analysis Request o	Analysis Request of Chain of Custody Record						Page 7224	of 74
7	Tetra Tech, Inc.		901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	6				
Client Name:	COG	Site Manager:	Clair Gonzales			ANALYSIS REQUEST	EQUEST	
Project Name:	RJ Unit 108 (4.17.19)				(Circle	or Specify	Method No.)	
Project Location: (county, state)	Eddy Co, NM	Project #:	Pending					
Invoice to:	Attn: COG - Ike Taverez				9		ned list	
Receiving Laboratory:	Cardinal	Sampler Signature:	Conner Moehring	a l	Se H		e attac	
Comments:				K 8260B	DRO - O  Cd Cr P  a Cd Cr F	624 70C/625	TDS listry (se	,
H902293		SAMPLING	MATRIX PRESERVATIVE METHOD	RS /N)	GRO - g As Ba	latiles 260B / Vol. 82	s) ilfate r Chen	Jaranic
LAB#	SAMPLE IDENTIFICATION	YEAR: 2019	R	ED (Y	15M ( 70C etals A	emi Vo Vol. 8 Semi.	besto: St. Wate	anon)
( LAB USE )		DATE	WATE SOIL HCL HNO ₃ ICE	# CONT FILTER BTEX 8	PAH 82 Total Me		PCB's 8 NORM PLM (As Chloride Chloride General Anion/C	Hold
31 Borchoic #	жe#21 (S')	7/11/19	X	7			X	
32	6	- 'Y'						
33	7,							
34	8.							
35	مِ							
36	10'							
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38	12'							
59	(3)	*	-					
401	V 1011	- W	<	<del>\</del>				
Relinquished by:	orban 7/3/14	Received by:	Date: Time:	Time: 12:/8	LAB USE ONLY	REMARKS: STAN	STANDARD	
Relinquished by:	Date: Time:	Received by:	Date: Time:		Sample Temperature	Rush: Same Day	RUSH: Same Day 4 hr) 48 hr	r 72 hr
Relinquished by:	Date: Time:	Received by:	Date: Time:	Ċ.	3.40	Special Re	Special Report Limits or TRRP Report	pon.
				(Ci	(Circle) HAND DELIVERED ) FEDEX	RED) FEDEX UPS	Tracking #:	

ORIGINAL COPY

Project Location: (county, state) Invoice to: Project Name: Analysis Request of Chain of Custody Record Relinquished by: Relinquished by: comments: Receiving Laboratory: Client Name: HADIZAN LAB USE LAB # gun ạ 王 5 48 Borchole# Borchaic # marken COG Eddy Co, NM Cardinal RJ Unit 108 (4.17.19) Attn: COG - Ike Taverez 2 22 Tetra Tech, Inc. (0-1) SAMPLE IDENTIFICATION 15 10 6 17 三 2 6 0 W 7/3/19 Date: Date: Date: Time: Time: ORIGINAL COPY Sampler Signature: Project #: Site Manager Received by: Received by: Received by **YEAR: 2019** 1116 2 15 DATE SAMPLING TIME WATER Clair Gonzales MATRIX Pending SOIL Conner Moehring 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE HNO₃ ICE Time: None # CONTAINERS 2 FILTERED (Y/N) BTEX 8021B BTEX 8260B Sample Temperature Circle) HAND DELIVERED LAB USE TPH TX1005 (Ext to C35) 3.40 TPH 8015M ( GRO - DRO - ORO - MRO) PAH 8270C (Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg ANALYSIS REQUEST TCLP Volatiles RUSH: Same Day (24 hr) 48 hr 72 hr TCLP Semi Volatiles Rush Charges Authorized Special Report Limits or TRRP Report FEDEX UPS RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM PLM (Asbestos) Chloride Z O TDS Chloride Sulfate General Water Chemistry (see attached list) Anion/Cation Balance Hold

Page 2322 9

24

	Relinquished by:	neiiiquistieu by.	Comment or	Relinquished by:	+	58 Bose Hole	55	56	55	54	53	52	5) Boschole	( LAB USE )	LAB #	56220 WH	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	<b>a</b>	Analysis Request of
	Date: Time:	Date: Time:	2	Date: Time:		Hole #13 (11.)	, L &	6	5'	41	33,		16 #23 (0-1)		SAMPLE IDENTIFICATION			Cardinal	Attn: COG - Ike Taverez	Eddy Co, NM	RJ Unit 108 (4.17.19)	cog	Tetra Tech, Inc.	Arialysis Request of Chain of Custody Record
	Received by:	Received by:	Shaunaka 1	Received by:		7-7-19	4						7)1/5	DATE TIME	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	•	
	Date: Time:	Date: Time:	10	Date: Time:	,	<	4						× -	WATER SOIL HCL HNO ₃ ICE None	7	MATRIX PRESERVATIVE		Conner Moehring		Pending		Clair Gonzales	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
Ċ		Sample Temperature	19 3.4°		,	1	4							# CONTA FILTERE BTEX 80 TPH TX1 TPH 801	D (Y 21B 1005	RS //N) BTE>		RO - M	1BO)					
3.4c Special Report	Limit Charles Control Fee	7 🛭	ONLY STANDARD											PAH 827 Total Met TCLP Me TCLP Vol TCLP Ser RCI GC/MS V GC/MS S PCB's 80	als Antals Antales mi Vo	g As Ba Ag As Ba Islatiles 260B / 6	a Cd Cr P a Cd Cr F 624	b Se H	lg		(Circle or Specify Me	ANALYSIS REQUEST		
Special Report Limits or TRRP Report	Conforted	Day & hr 72 hr				6	4						×	NORM PLM (Asb Chloride Chloride General \ Anion/Ca	Su Water	lfate r Chem		e attac	hed list)		Method No.)	100		Page 24ths of
														Hold							-			24



July 15, 2019

MIKE CARMONA
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: RJ UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/12/19 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

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. Keene

Lab Director/Quality Manager



TETRA TECH MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/10/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 7 ( 5' ) (H902402-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/15/2019	ND	432	108	400	3.77	
Sample ID: BORE HOLE #	• , ,	-							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/15/2019	ND	432	108	400	3.77	
Cilionae									
Sample ID: BORE HOLE #		902402-03)							
Sample ID: BORE HOLE #		•	Analyze	d By: AC					
	7 ( 15' )(H	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	7 ( 15' )(H!	/kg	-	-	BS 432	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte	7 ( 15' ) (H9 mg,	/kg  Reporting Limit	Analyzed	Method Blank		•	·		Qualifier
Sample ID: BORE HOLE # Chloride, SM4500CI-B Analyte Chloride	7 ( 15' ) (H9 mg,	Reporting Limit 16.0 902402-04)	Analyzed 07/15/2019	Method Blank		•	·		Qualifier
Sample ID: BORE HOLE # Chloride, SM4500Cl-B Analyte Chloride Sample ID: BORE HOLE #	7 ( 15' ) (H9 mg,  Result  304  7 ( 20' ) (H9	Reporting Limit 16.0 902402-04)	Analyzed 07/15/2019	Method Blank ND		•	·		Qualifier

Cardinal Laboratories *=Accredited Analyte

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**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/10/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-01821 Tamara Oldaker

Project Location: COG - EDDY CO NM

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	6800	16.0	07/15/2019	ND	432	108	400	3.77	
Sample ID: BORE HOLE #	# 8 ( 15' )(H	902402-06)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Analyte			,			•	•		
Chloride Sample ID: BORE HOLE #	112 # 8 ( 20' )(H	16.0 902402-07)	07/15/2019	ND	432	108	400	3.77	
Chloride Sample ID: BORE HOLE #	112 # 8 ( 20' )(H	16.0 902402-07)	07/15/2019		432	,	400	3.77	
Chloride Sample ID: BORE HOLE #	112	16.0 902402-07)	07/15/2019	ND  d By: AC  Method Blank	432 BS	108 % Recovery	400  True Value QC	3.77 RPD	Qualifie
Chloride  Sample ID: BORE HOLE # Chloride, SM4500CI-B	112 # 8 ( 20' ) (H ⁹	16.0 9 <b>02402-07)</b> /kg	07/15/2019 Analyze	d By: AC		108			
Chloride  Sample ID: BORE HOLE # Chloride, SM4500CI-B  Analyte	112 # 8 ( 20' ) (H9 mg, Result 48.0	16.0 902402-07) /kg  Reporting Limit 16.0	07/15/2019  Analyzed  Analyzed	d By: AC  Method Blank	BS	108 % Recovery	True Value QC	RPD	
Chloride  Sample ID: BORE HOLE # Chloride, SM4500CI-B  Analyte  Chloride	112 # 8 ( 20' ) (H9 mg, Result 48.0	16.0 902402-07) /kg Reporting Limit 16.0	07/15/2019  Analyzed  07/15/2019	d By: AC  Method Blank	BS	108 % Recovery	True Value QC	RPD	
Chloride  Sample ID: BORE HOLE # Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: BORE HOLE #	112 # 8 ( 20' ) (H9 mg/ Result 48.0	16.0 902402-07) /kg Reporting Limit 16.0	07/15/2019  Analyzed  07/15/2019	d By: AC  Method Blank  ND	BS	108 % Recovery	True Value QC	RPD	

### Sample ID: BORE HOLE # 10 ( 5' ) (H902402-09)

Jumpic 151 Built 11011 // 10	( - ) (	, ,							
hloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/15/2019	ND	432	108	400	3.77	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/10/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 10 ( 10' ) (H902402-10)

	• , •	,							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	07/15/2019	ND	432	108	400	3.77	
Sample ID: BORE HOLE # 10	/ 4FL \ //								
		H9N24N2-11\							
Chloride, SM4500Cl-B	mg,	•	Analyze	d By: AC					
•	` , `	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 10 ( 20' ) (H902402-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 10 ( 25' ) (H902402-13)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 13 ( 10' ) (H902402-14)

Jumpio 12. Dona 11011	" -5 ( -5 ) (.								
Chloride, SM4500CI-B	SM4500CI-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/15/2019	ND	432	108	400	3.77	

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Received: 07/12/2019 Sampling Date: 07/10/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-01821 Sample Received By:

Project Location: COG - EDDY CO NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1010	16.0	07/15/2019	ND	432	108	400	3.77	
Sample ID: BORE HOLE #	# 13 ( 20' )(I	H902402-16)							
	# 13 ( 20' )(I	•	Analyze	d By: AC					
Sample ID: BORE HOLE #	, ,,	•	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

### Sample ID: BORE HOLE # 21 ( 15' ) (H902402-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 21 ( 20' ) (H902402-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 21 ( 25' ) (H902402-19)

Sumple 1D. DOKE HOLE # 23	. ( 23 )(.	1302402 13)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2019	ND	432	108	400	3.77	

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Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/10/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 21 ( 30' ) (H902402-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 14 ( 5' ) (H902402-21)

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	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 14 ( 10' ) (H902402-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 14 ( 15' ) (H902402-23)

Chloride, SM4500CI-B	mg/kg Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/15/2019	ND	432	108	400	3.77	

### Sample ID: BORE HOLE # 16 ( 5' ) (H902402-24)

Jumpio 15. 501(1.1011 // 1	,,,								
Chloride, SM4500Cl-B	I-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2019	ND	432	108	400	3.77	

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Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 16 ( 10' ) (H902402-25)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	07/15/2019	ND	432	108	400	3.77	
Sample ID: BORE HOLE #	± 16 ( 15' )(ŀ	1902402-26)							
Sample ID: BORE HOLE # Chloride, SM4500Cl-B	[‡] 16 ( 15' )(ŀ	-	Analyze	d By: AC					
•		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: BORE HOLE # 16 ( 20' ) (H902402-27)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 16 ( 25' ) (H902402-28)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 17 ( 15' ) (H902402-29)

Jumpio 151 Botte ilione il 17	.,								
Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/15/2019	ND	432	108	400	0.00	

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Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 17 ( 20' ) (H902402-30)

Chloride, SM4500CI-B	00CI-B mg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 17 ( 25' ) (H902402-31)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 17 ( 30' ) (H902402-32)

Chlorido CM4E00CL P

Cilioride, SM4500CI-B	шу/ку		Allalyzeu by: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/15/2019	ND	432	108	400	0.00	

Analyzed By AC

### Sample ID: BORE HOLE # 18 ( 15' ) (H902402-33)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 18 ( 20' ) (H902402-34)

oumple is roll more	( ) (.								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/15/2019	ND	432	108	400	0.00	

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Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-01821 Sample Received By:

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE #	# 18 ( 25' )(I	H902402-35)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/15/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	# 19 ( 20' )(I	H902402-36)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/15/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE #	# 19 ( 25' )(I	H902402-37)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	07/15/2019	ND	432	108	400	0.00		

### Sample ID: BORE HOLE # 19 ( 30' ) (H902402-38)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 19 ( 35' ) (H902402-39)

Jumpio 15 i Joint III ii 15	( ) (								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/15/2019	ND	432	108	400	0.00	

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Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/12/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: BORE HOLE # 19 ( 40' ) (H902402-40)

Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/15/2019	ND	432	108	400	0.00	
Sample ID: BORE HOLE # 2	0 ( 10' )(I	-	Analyze	ed By: AC					

Method Blank

ND

Analyzed

07/15/2019

BS

432

% Recovery

108

### Sample ID: BORE HOLE # 20 ( 15' ) (H902402-42)

Result

1140

Reporting Limit

16.0

Analyte

Chloride

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 20 ( 20' ) (H902402-43)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/15/2019	ND	432	108	400	0.00	

### Sample ID: BORE HOLE # 24 ( 5' ) (H902402-44)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/15/2019	ND	432	108	400	0.00	

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Celey D. Keine

RPD

0.00

Qualifier

True Value QC

400



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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2019 Sampling Date: 07/12/2019

Reported: 07/15/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: BORE HOLE # 24 ( 10' ) (H902402-45)

Chloride, SM4500CI-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 07/15/2019 ND 432 108 400 0.00

Sample ID: BORE HOLE # 24 ( 15' ) (H902402-46)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 80.0 16.0 07/15/2019 432 400 0.00 ND 108

Sample ID: BORE HOLE # 17 ( 10' ) (H902402-47)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1520 07/15/2019 ND 400 0.00 16.0 432 108

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



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

Company Name: &	Con Tetratech		811170	70	ANALYSIS	REQUEST
Project Manager: ಹ	a MIKE CHEMONIA		P.O. #:			
Address:			Company: ୯୦୯			
City:	State:	Zip:	Attn: IKE TAVAREL	REL		
Phone #:	Fax #:		Address:			
Project #: 2120-100-01821	Project Owner:	ner: &	City:			
Project Name: R3	UNIT 108		State: Zip:			
Project Location: E	Eddy co, 2m		Phone #:			
Sampler Name: Co	CONNER WOEHEING		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. S	SAMPLING		
Lab I.D. H902402	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	Chlorides	
	Borehole#\$7 (5")		× 7	10/191	X	
	(101)	~ ×	*		×	
S	(151)	- *	*		×	
L,	(20')	- *	×		×	
5 Barchale #	ale# 8 (10')	~	*		X	
6	(15')	- У	*		<b>Y</b>	
~	(201)	- ×	*		×	
8	(25)	· ×	*		*	
9 Barehole	nois # 10 (5)	- ×	*		χ	
6	(101)	- *	ナ	4	Υ	
PLEASE NOTE: Liability and Dama	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lot, shall be limited to the amount paid by the client or the	for any claim arising whether based in contra	act or tort, shall be limited to the a	mount paid by the client for	the	

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions.

affiliates or successors arising out of or related to the perform.  Relinquished By:	Date:	aliliates of successors arising out or of related to the performance of services interactive by variatinal, respansives of whether such coalin's based upon any of the adore statute resource of universes.  Reclinquished By:  Received By:  Phone Resu	ılt: □ Yes □ No
٠٠٠٠٠ ١٠٠٠	Time:	The state of the s	PFax Result:
Some of some	11:55	Munora Miller Me	
Relinquished By:	Date:	Received By:	54 4565
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.4.	Sample Condition CHECKED BY:  Cool Intact (Initials)  Tres Tres	



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

	(-1-)								
Company Name:				BILL TO			ANALYSIS REQ	REQUEST	
Project Manager:	ā		P.O. #:						
Address:			Company:						
City:	State:	Zip:	Attn:						
Phone #:	Fax #:		Address:						
Project #:	Project Owner:	ner:	City:						
Project Name:	PU CZT HICS		State:	Zip:					
Project Location:	n:		Phone #:						
Sampler Name:			Fax #:						
FOR LAB USE ONLY			MATRIX PRESERV	RV. SAMPLING	G				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:	Chlorides				
11	Barchole # 10 (151)	×	×	7/0/19	4				
21	(25)	×	×		イ				
13	(25')	×	×		7				
T	Borehole# 13 (10")	×	×		×				
2	(15)	X	×		X				
3/6	(20')	×	×		×				
[1	Borchole # 21 (15")	×	×		<b>×</b>				
18		×	×		×				
Pi	(15')	×	×		×				
25	(36)	X	×	4	*				
PLEASE NOTE: Liability analyses. All claims inclu service. In no event shall	PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be finited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless media in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be labels for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, afficiency results of the subsidiaries of the subsidiaries.	y for any claim arising whether bass nall be deemed walved unless made cluding without limitation, business i or by Cardinal, regardless of whethe	m arising whether based in contract or tort, shall be limited to the amount paid by the client for the a valved unless made in withing and received by Cardinal within 30 days after completion of the Limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarits I, regardless of whether such claims is based upon any of the above stated reasons or otherwise.	imited to the amount paid dinal within 30 days after ss of profits incurred by cli y of the above stated reas	by the client for the completion of the applic ent, its subsidiaries, ons or otherwise.	able			
Relinquished E		Received By:	2	1	Phone Result:	□ Yes □ No	Add'l Phone #: Add'l Fax #:		
(lown on	2	The same	1/1/1	Ko	REMARKS:				

Relinquished By:

m muso,

Time::53 Date: Time:

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact
Tes + Yes
No No

CHECKED BY: (Initials)

Bush!



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

Company Name:			B/L	8111 70	ANALYSIS	REQUEST
Project Manager:	a		P.O. #:			
Address:			Company:			
City:	State:	Zip:	Attn:			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:	vner:	City:			
Project Name: RJ	NOT #108		State: Zi	Zip:		
Project Location:			Phone #:			
Sampler Name:			Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		
Lab I.D. 1402402	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	Chloodes	
21	Bo: choic # 14 ( 5')	- ×	×	1/11/19	×	
22	(10.)	~ ×	×	تِد	Х	
22	(5)	×	×		×	
120	Borchole # 16 (5')		×		X	
25	(,01)		×		X	
26	(16)	~ ×	×		×	
200	(26)	- ×	×		X	
2%	(25)	1 X	×		X	
29	Borchole # 17 (15)	<i>-</i>	_ X		X	
8		- ×	×	<	×	
PLEASE NOTE: Liability a	BLEASE NOTE: I lability and Damanos. Cardinals liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	dy for any claim arising whether based in contri	act or lort, shall be limited to	the amount paid by the client	or the	The second secon

Timp:

The Control of the control of the control of the spilicable control of the spilicable control of the spilicable control of the spilicable service. In no event shall Cardinal be liable for incidental or consequental damages, including whould imitation, business interruptions, loss of use, or tess of profits incurred by client, its subsidiarities, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 2.19 Received By:

Fax Result:

Fax Result:

ReMARKS: Relinquished By: Relinquished By:

Revinded By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Time: :55 Date: Time: Received By: Sample Condition
Cool Intact
Gyes Gyes
No No CHECKED BY: (Initials) 4 ☐ Yes N 9

Bush!!

Add'l Phone #: Add'l Fax #:



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

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact
Cool Intact
Tes Tes
No No

CHECKED BY: (Initials)

Relinquished By:

our ma

Time: 'SS Date: Time:

Received By:

Date: 7-12-19

Date:
7-/2-/9
Received By:
Received Sy:
Received Received By:
Received By:
Received By:
Received By:
Received By:
Remarks:

☐ Yes

□ No

Add'l Phone #: Add'l Fax #:

Rush!!



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

company name:			ANALYSIS REQUEST	
Project Manager:		P.O. #:		
Address:		Company:		
City:	State:	Zip: Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	ner: City:		
Project Name:	BU 027 #108	State: Zip:		
Project Location:		Phone #:		
Sampler Name:		Fax #:		
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	ING	
Lab I.D. 149 <i>b2407</i>	Sample I.D.	OIL SLUDGE OTHER: ACID/BASE:	Chlorides	
- P	Boicnois # 20 (10)	×	×	
77	(15)	*	X	
5.h	(16)	*	×	
_	Borehole # 24 ( 5")	* *	X	
さ	(101)	*	*	
46	(151)	* X	~	
	Borchole#17 (10')	X X 7/11/15		4
PLEASE NOTE: Liability and analyses. All claims including	i those for neclinence and any other cause whatsoever she	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deeping waived unless made in writing and received by Cardinal within 30 days after completion of the analysis.	id by the client for the	L

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Date: 12-19 Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No

Add'I Phone #: Add'I Fax #:

Relinquished By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
TYES TYES
No No

CHECKED BY: (Initials)

Rush!!

Jo.

Relinquished By:

boundary

Time:

Received By:



July 25, 2019

MIKE CARMONA
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: RJ UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/25/19 9:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

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. Keene

Lab Director/Quality Manager



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/25/2019 Sampling Date: 07/25/2019

Reported: 07/25/2019 Sampling Type: Soil

Project Name: **RJ UNIT #108** Sampling Condition: Cool & Intact Project Number: 212C - MD - 01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: AH # 24 ( 0-1' ) (H902547-01)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/25/2019	ND	1.90	95.0	2.00	1.52	
Toluene*	<0.025	0.025	07/25/2019	ND	2.11	105	2.00	0.800	
Ethylbenzene*	<0.025	0.025	07/25/2019	ND	2.14	107	2.00	0.447	
Total Xylenes*	<0.075	0.075	07/25/2019	ND	6.86	114	6.00	1.54	
Total BTEX	<0.150	0.150	07/25/2019	ND					
Surrogate: Dibromofluoromethane	96.5	% 90.4-11	1						
Surrogate: Toluene-d8	103	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	101	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/25/2019	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	07/25/2019	ND	187	93.7	200	2.27	
DRO >C10-C28*	<10.0	10.0	07/25/2019	ND	176	87.9	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	07/25/2019	ND					
Surrogate: 1-Chlorooctane	82.5	% 41-142	•						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

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Celeg D. Keene



TETRA TECH MIKE CARMONA 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

 Received:
 07/25/2019
 Sampling Date:
 07/25/2019

 Reported:
 07/25/2019
 Sampling Type:
 Soil

Fax To:

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

### Sample ID: AH # 24 ( 1-1.5' ) (H902547-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/25/2019	ND	1.90	95.0	2.00	1.52	
Toluene*	<0.025	0.025	07/25/2019	ND	2.11	105	2.00	0.800	
Ethylbenzene*	<0.025	0.025	07/25/2019	ND	2.14	107	2.00	0.447	
Total Xylenes*	<0.075	0.075	07/25/2019	ND	6.86	114	6.00	1.54	
Total BTEX	<0.150	0.150	07/25/2019	ND					
Surrogate: Dibromofluoromethane	95.7	% 90.4-11	1						
Surrogate: Toluene-d8	102	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.1	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/25/2019	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	07/25/2019	ND	187	93.7	200	2.27	
DRO >C10-C28*	<10.0	10.0	07/25/2019	ND	176	87.9	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	07/25/2019	ND					
Surrogate: 1-Chlorooctane	90.7	% 41-142	)						
Surrogate: 1-Chlorooctadecane	98.9	% 37.6-14	7						

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TETRA TECH MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/25/2019 Sampling Date: 07/25/2019

Reported: 07/25/2019 Sampling Type: Soil

Project Name: RJ UNIT #108 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 01821 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: AH # 24 ( 2-2.5' ) (H902547-03)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 32.0 16.0 07/25/2019 ND 416 104 400 3.92

Sample ID: AH # 24 ( 3-3.5' ) (H902547-04)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 160 16.0 07/25/2019 416 400 3.92 ND 104

Sample ID: AH # 24 ( 4-4.5' ) (H902547-05)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 368 07/25/2019 ND 400 0.00 16.0 416 104

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### **Notes and Definitions**

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

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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Analysis Request of Chain of Custody Record

		Relinquished by:	Relinquished by:	Relinquished by:		1 1 t		AI		D :	Au# 24	( LAB USE )	LAB#	十つのスピーク		Comments:	115	E95	Project Location:	CONCHO	Client Name:	
	illio.		Date: Time:	Date: Time:		( + - 11 - 15 )		(2.35)	( 3 - 3 < ')	011			SAMPLE IDENTIFICATION			ARDINAL	E TAVAZEZ	7 60.23	11T 10%		Tetra Tech, Inc.	
ORIGINAL COPY	несегиед ву:	neceived by:	Samora	Received by:		7/25/15	7   25   17	7/25/15	7/25/4	7/25/15	t	ATE ME	YEAR: 2019	SAMPLING		Sampler Signature:		Project#: ている		Site Manager:		
	Date: Time:	Defe: Time:	10			× ×	×			×	S	VATER OIL CL NO ₃		MATRIX PRESERVATIVE		CONNER MOEHRING		c-mo -01821		WILL CARMONA	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Cir		,	25/19 0907			- 5	- ζ	- 2	- 5	- 5 ×	# C	CONTAIN TERED EX 8021	VER	S	926AD	20				CF	9 9	
(Circle) HAND DELIVERED F	Connectical 1.36	Sample Temperature 3.9 1 197	LAB USE REMARKS:						*	×	TPH TPH PAH Tota TCL TCL	H TX100 H 8015M H 8270C al Metals P Metals P Volatil	05 (E 1 ( G ) Ag s Ag es	xt to C3 RO - DI As Ba C As Ba (	15) RO - OF d Cr Pt	Se Hg			(Circle or	AN		
FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	TANDARD			4.	*	*	*	* (	RCI GC/I GC/I PCB NOF PLM Chlo Chlo	MS Vol. MS Semi S's 8082 RM I (Asbeste oride Oride Seral Wat	826 i. Vo / 60i os)	0B / 624 I. 8270 B te TE	C/625 DS	attache	d list)		or Specify Method No.)	ANALYSIS REQUEST		Page
	ססת	72 hr									Hold	n/Cation	i Bal	ance								of 1