

Site Characterization Report and Remediation Workplan

June 8, 2021

Langlie Jal Unit #024 Produced Water Release NAPP2109236046

Prepared For:

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1.0 Introduction

Crain Environmental (CE), on behalf of BXP Operating, LLC (BXP), has prepared this *Site Characterization Report and Remediation Workplan* for the produced water release at Langlie Jal Unit #024 (Site), located approximately 3.5 miles north of Jal, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the Release Site are 32.168347, -103.182394. The property surface rights are privately owned. The location of the Release Site is depicted on Figure 1.

2.0 Background

On April 1, 2021, a leak was discovered by New Mexico Oil Conservation Division (NMOCD) personnel on an old and worn 2" trunk line, that resulted in a release of approximately 60 barrels (bbls) of produced water. Immediately following discovery of the release, the area was secured, valves were shut in, a vacuum truck was dispatched to the release, and the line was repaired.

The released produced water flowed on the ground approximately 240 feet east from the release point. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. Approximately 15 bbls of free-standing produced water was recovered and hauled to an NMOCD approved disposal facility. Approximately 300 cubic yards (cy) of affected soil was excavated by a backhoe and stockpiled on plastic pending characterization.

The release was discovered by the NMOCD on April 1, 2021, and the NMOCD Form C-141 (Release Notification Report) was submitted on April 2, 2021. A copy of the NMOCD Form C-141 is provided in Appendix A. The C-141 was approved by the NMOCD on April 26, 2021, and the Site was given an NMOCD Tracking Number of NAPP2109236046. Produced water surface impacts at the Site cover approximately 23,660 square feet. The release point and the surface extent of the produced water release are depicted on Figure 2.

This *Site Characterization Report and Remediation Workplan* is due within 90 days of discovering the release (i.e., by June 30, 2021) in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC).

3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.



- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

Review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 0.5 mile of the Site. The NMOSE records did provide a depth to groundwater measurement of 660 feet below ground surface (bgs) at one well (CP 00754 POD 1) located approximately 0.63 mile southeast of the Site. Well CP 00754 POD 1 was drilled to a total depth of 4,900 feet on December 7, 1990. Four additional wells were identified within one mile of the site; however, depth to groundwater information was not provided for those wells. All wells located within approximately one mile from the Site are listed in the table below. Figure 3 provides a ½ mile radius circle around the Site, and no water wells are shown within that radius. Based on the water well data available in NMOSE records, it is estimated that depth to groundwater at the Site is approximately 660 feet bgs.

Nearby Water Wells

Location from Release Site	Year Install ed	Use	Well Depth and Depth to Water (feet bgs)
Approx. 0.67 mile to the northeast	1971	NA	500 / NA
Approx. 0.70 mile to the northwest	1971	NA	500 / NA
Approx. 0.58 mile to the southwest	1973	NA	4,900 / NA
Approx. 0.73 mile to the southwest	1973	NA	4,900 / NA
Approx. 0.63 mile to the southeast	1990	NA	4,900 / 660
	Approx. 0.67 mile to the northeast Approx. 0.70 mile to the northwest Approx. 0.58 mile to the southwest Approx. 0.73 mile to the southwest	Approx. 0.67 mile to the northeastInstall edApprox. 0.70 mile to the northwest1971Approx. 0.58 mile to the southwest1973Approx. 0.73 mile to the southwest1973	Approx. 0.67 mile to the northeast1971NAApprox. 0.70 mile to the northwest1971NAApprox. 0.58 mile to the southwest1973NAApprox. 0.73 mile to the southwest1973NA

Note: NA = not available

3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 3, the Site is <u>not</u> located:

• Within 300 feet of any continuously flowing watercourse or any other significant watercourse.



- No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 3).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The topographic map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
 - No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4 and 5 depict the FEMA floodplain information and the karst potential data, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater at the Release Site, which dictates the least stringent regulatory guidelines typically associated with groundwater depths of greater than 100 feet bgs. A summary of the Closure Criteria is provided in the table below and in Table 1.



NMOCD Closure Criteria

		Closure Criteria Based on Depth to Groundwater (mg/kg)					
Constit	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs			
Chloride (EPA 300)		600	10,000	20,000			
TPH (EPA	GRO + DRO + MRO	100	2,500	2,500			
8015M)	GRO + DRO	NA	1,000	1,000			
Total BTEX (EPA 8021 or 8260)		50	50	50			
Benzene	(EPA 8021 or 8260)	10	10	10			

Notes: NA = not applicable

bgs = below ground surface

mg/kg = milligrams per kilogram

GRO = gasoline range organics

DRO = diesel range organics

MRO = motor oil range organics

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, and total xylenes Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 6 feet bgs was reached, at which groundwater was not encountered. A review of the NMOSE water well records indicates that groundwater was measured at a depth of 660 feet at the nearest well with water data available (CP 00754 POD 1), located approximately 0.63 mile southeast of the Site.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site. There were no other water sources, springs, or other sources of fresh water extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.



4.5 Summary of May 2021 Analytical Results

On May 8, 2021, hand auger borings were installed by Aspen Grow, LLC at 10 locations along the release path, 2 locations within the stockpiled soil, and 4 locations outside the perimeter of the release path to collect soil samples. Depths were determined by visual evidence of chloride impacted soil and ranged from surface to 6 feet bgs.

Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and shipped to Hall Environmental Analysis Laboratory, Inc. (Hall) in Albuquerque, New Mexico under proper chain-of-custody control. All samples were analyzed for chlorides by EPA Method 300, and select samples were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, and for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B.

Table 1 provides a summary of the laboratory results, and Figure 2 shows the sample locations and chloride results. As TPH and BTEX concentrations were reported below the NMOCD closure in all samples except sample SP4 at 0-1' bgs (188 mg/kg TPH), TPH and BTEX concentrations are not included on Figure 2. Photographs of the release area are provided in Appendix B. The laboratory report and chain-of-custody documentation is provided in Appendix C.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits in all samples. Concentrations of TPH in soil exceeded Closure Criteria at only one sample point nearest the release point (SP4) at a depth of 0-to-1-foot bgs. Chloride concentrations exceeded the Closure Criteria at each sample location within the release path (SP1 through SP10), from each sample within the stockpile (SP11 and SP12), and from two samples collected outside of the release path (SP NW and SP SE). Soils with TPH and chloride exceedances will be addressed in accordance with the Remediation Workplan discussed in Section 5.0.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Lab Order 2105424 generated by Hall in Albuquerque, New Mexico, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.



5.0 Proposed Remediation Workplan

5.1 Proposed Remedial Activities

Benzene and BTEX concentrations were reported below the test method detection limits in all samples. A TPH concentration above the Closure Criteria was only reported in one sample (SP4) and chloride concentrations that exceed the Closure Criteria were reported in samples SP1 through SP12, SP NW and SP SE.

BXP proposes to enlist the services of Aspen Grow LLC (Aspen Grow) to apply probiotic compounds to the affected area. Aspen Grow's approach is to remediate and restore the contaminated soils to a healthy productive condition by rebuilding the biological health of the soil. This can be accomplished through an application of products that contain bio stimulants, organic acids, biologically produced enzymes and chelating agents which stimulate the natural beneficial microorganisms. By restoring the population and proper ratio of beneficial micro and macro-organisms, soils can be revitalized back to being healthy and productive. To achieve this goal, Aspen Grow will plan on a gradual process of application to the affected area to minimize the erosion and runoff of the product. This topical application process will contain the spill to the current area to prevent any expansion of the spill area.

The site will be treated for twelve (12) weeks with fresh water and bio-products that will nourish the soil system by suppling special humic acids, minerals and nutrients that promote the growth of natural aerobic microbes while improving the soil's structure and natural fertility. Aspen Grow will re-test the site after the initial application period to get analysis of the condition of the soil and to see if any additional application is needed. Appendix D provides a copy of Aspen Grow's Remediation Plan and product information.

Final confirmation samples will be collected from the base and sidewalls of the excavation to confirm that soil exhibiting chloride concentrations above NMOCD Closure Criteria have been remediated. Due to the large footprint of the Release Site, BXP requests a variance from the one soil sample per 200 square foot requirement for confirmation sampling. BXP requests composite confirmation sample collection be performed for each 1,000 square feet of excavation floor and each 200 linear feet of excavation sidewall. As initial BTEX concentrations were below the test method detection limits and TPH was only detected at one sample location, each confirmation sample will be analyzed only for chlorides by EPA Method 300. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas. Confirmation samples will also be collected from the treated stockpiled soil. If the laboratory reports chloride concentrations of the stockpiled soil less than 600 mg/kg, the stockpiled soil will be used to backfill the excavated areas. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

BXP requests a remediation schedule of 150 days from the date of NMOCD approval of this Remediation Workplan to complete the proposed remediation activities and submit a *Remediation Summary and Closure Report* for NMOCD approval, pending the results of the confirmation samples. The closure report will summarize remedial activities and confirmation sampling results, and will include the final Form C-141.



6.0 Distribution

- Copy 1: Mike Bratcher New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210
- Copy 2: Merch Merchant BXP Operating, LLC 1515 Calle Sur, Suite 174 Hobbs, New Mexico 88240



TABLE

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS BXP OPERATING, LLC LANGLIE JAL UNIT #024 PRODUCED WATER RELEASE NMOCD TRACKING NO.: NAPP2109236046

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chlorid
	Duto	(feet bgs)	otatuo					milligrams	per kilogram	n (mg/kg)			
NMOCD Clos	sure Criteria	(<4 feet bgs))	-		-	100	10	-	-	-	50	600
NMOCD Clos	sure Criteria	(>4 feet bgs))	1,00	00	-	2,500	10	-	-	-	50	20,000
SP1 0'-1'		1		40						1		I	
	05/08/21	0-1	In-Situ	<49	<9.8	<49	<49	<0.025	<0.049	<0.049	<0.099	<0.099	4,600
SP1 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	1,100
SP2 0'-1'	05/08/21	0-1	In-Situ	<4.9	<9.7	<48	<48	-	-	-	-	I	4,800
SP2 1'-2'	05/08/21	1-2	In-Situ	-		-	-	-	_	-	-	-	5,700
01212	03/00/21	1-2	In-Oitu	l.						-		-	5,700
SP3 0'-1'	05/08/21	0-1	In-Situ	<5.0	<9.7	<48	<48	<0.025	< 0.050	<0.050	<0.10	<0.10	8,10
SP3 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	5,000
SP3 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	5,40
SP3 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	5,90
	÷												
SP4 0'-1'	05/08/21	0-1	In-Situ	<4.9	95	93	<mark>188</mark>	-	-	-	-	-	12,00
SP4 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	6,30
SP4 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	4,20
SP4 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	4,40
		1		10			L 1					I I	
SP5 0'-1'	05/08/21	0-1	In-Situ	<4.9	17	<50	17	<0.025	<0.049	<0.049	<0.098	<0.098	11,00
SP5 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	5,60
SP6 0'-1'	05/08/21	0-1	In-Situ	<5.0	29	<47	29	-		-		. I	7,90
SP6 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-		_	-			7,20
SP6 2'-3'	05/08/21	2-3	In-Situ	-	-		_	-	_	-		-	5,70
01020	03/00/21	2-0	In-Oitu	l						-		-	5,70
SP7 0'-1'	05/08/21	0-1	In-Situ	<4.8	<9.6	<48	<48	-	-	-	-	-	5,40
SP7 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	5,60
SP7 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	5,20
SP7 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	4,30
SP7 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	4,70

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS BXP OPERATING, LLC LANGLIE JAL UNIT #024 PRODUCED WATER RELEASE NMOCD TRACKING NO.: NAPP2109236046

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride	
	(feet bgs)					(feet bgs) milligrams per kilogram (mg/kg)								
NMOCD Closu	re Criteria ((<4 feet bgs)		-		-	100	10	-	-	-	50	600	
NMOCD Closu	re Criteria ((>4 feet bgs))	1,00	00	-	2,500	10	-	-	-	50	20,000	
										•				
SP8 0'-1'	05/08/21	0-1	In-Situ	<5.0	9.9	<49	9.9	-	-	-	-	-	5,300	
SP8 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	6,000	
SP8 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	4,800	
SP8 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	4,800	
SP8 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	4,500	
SP8 5'-6'	05/08/21	5-6	In-Situ	-	-	-	-	-	-	-	-	-	4,600	
			• •						•					
SP9 0'-1'	05/08/21	0-1	In-Situ	<4.9	<8.9	<45	<45	-	-	-	-	-	4,000	
SP9 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	3,500	
SP9 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	3,400	
SP9 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	3,400	
SP9 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	3,600	
SP10 0'-1'	05/08/21	0-1	In-Situ	<4.9	<9.7	<48	<48	-	-	-	-	-	11,000	
SP10 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	6,100	
SP10 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	5,800	
SP10 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	5,400	
SP10 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	5,000	
SP10 5'-6'	05/08/21	5-6	In-Situ	-	-	-	-	-	-	-	-	-	5,100	
			-		-						-			
SP11 0'-1'	05/08/21	0-1	In-Situ	<5.0	22	<46	22	-	-	-	-	-	24,000	
SP11 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	20,000	
SP11 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	23,000	
SP11 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	10,000	
SP11 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	15,000	
SP11 5'-6'	05/08/21	5-6	In-Situ	-	-	-	-	-	-	-	-	-	11,000	
SP12 0'-1'	05/08/21	0-1	In-Situ	-	-	-	-	<0.023	<0.046	<0.046	<0.092	<0.092	12,000	
SP12 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	11,000	
SP12 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	6,800	
SP12 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	9,200	

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Sample ID	Sample Date	Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
	(feet bgs)							milligrams	per kilogram	(mg/kg)			
NMOCD Clos	ure Criteria	(<4 feet bgs))	-		-	100	10	-	-	-	50	600
NMOCD Clos	ure Criteria	(>4 feet bgs)		1,00	00	-	2,500	10	-	-	-	50	20,000
	- 1	1	r	ĩ	r	1	1		r	1			
SP12 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	5,500
SP12 5'-6'	05/08/21	5-6	In-Situ	-	-	-	-	-	-	-	-	-	6,500
	05/00/04	0.4	1.01	T	1	1	1	0.004	0.040	0.040	0.000	0.000	4 500
SP NW 0'-1'	05/08/21	0-1	In-Situ	-	-	-	-	<0.024	<0.049	<0.049	<0.098	<0.098	4,500
SP NW 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	2,600
SP NW 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	2,200
SP NW 3'-4'	05/08/21	3-4	In-Situ	-	-	-	<u> </u>	-	-	-	-	-	2,000
SP NE 0'-1'	05/08/21	0-1	In-Situ	<4.8	<8.9	<45	<45	-			-	· -	80
SP NE 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	77
SP NE 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	190
0	00/00/21	20	in old										100
SP SE 0'-1'	05/08/21	0-1	In-Situ	<5.0	<9.5	<48	<48	-	-	-	-	-	5,200
SP SE 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	4,900
SP SE 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	4,500
SP SE 3'-4'	05/08/21	3-4	In-Situ	-	-	-	-	-	-	-	-	-	4,400
SP SE 4'-5'	05/08/21	4-5	In-Situ	-	-	-	-	-	-	-	-	-	4,200
SP SE 5'-6'	05/08/21	5-6	In-Situ	-	-	-	-	-	-	-	-	-	4,700
					•	<u> </u>						<u>. </u>	
SP SW 0'-1'	05/08/21	0-1	In-Situ	<4.9	<9.5	<47	<47	-	-	-	-	-	<60
SP SW 1'-2'	05/08/21	1-2	In-Situ	-	-	-	-	-	-	-	-	-	<60
SP SW 2'-3'	05/08/21	2-3	In-Situ	-	-	-	-	-	-	-	-	-	<60

Notes:

1. GRO: Gasoline Range Organics

2. DRO: Diesel Range Organics

3. MRO: Motor Oil Range Organics

4. -: No NMOCD Closure Criteria established.

5. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.

6. < indicates the COC was below the appropriate laboratory method/sample detection limit

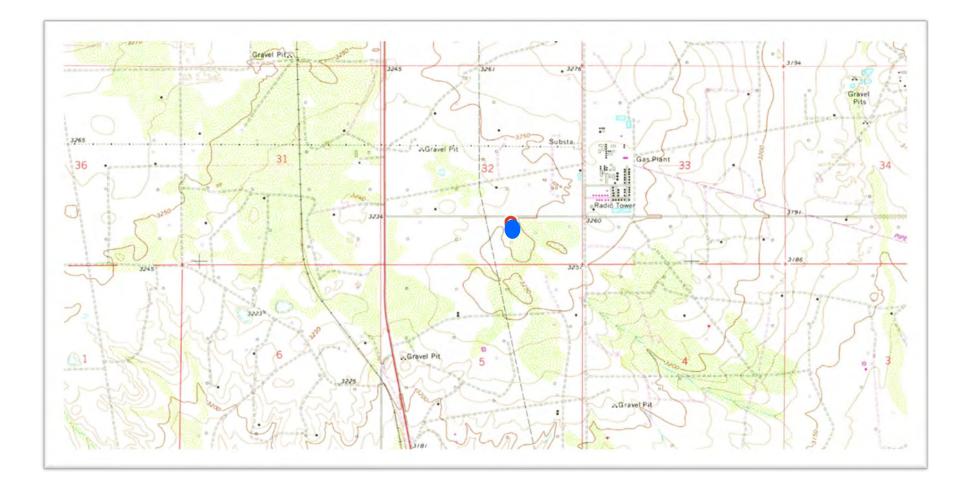
7. Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria



•



FIGURES



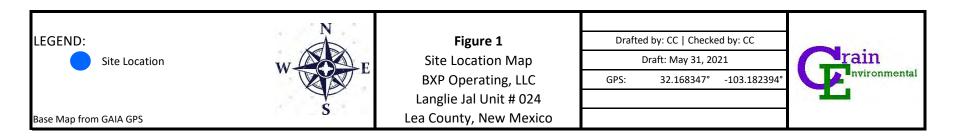
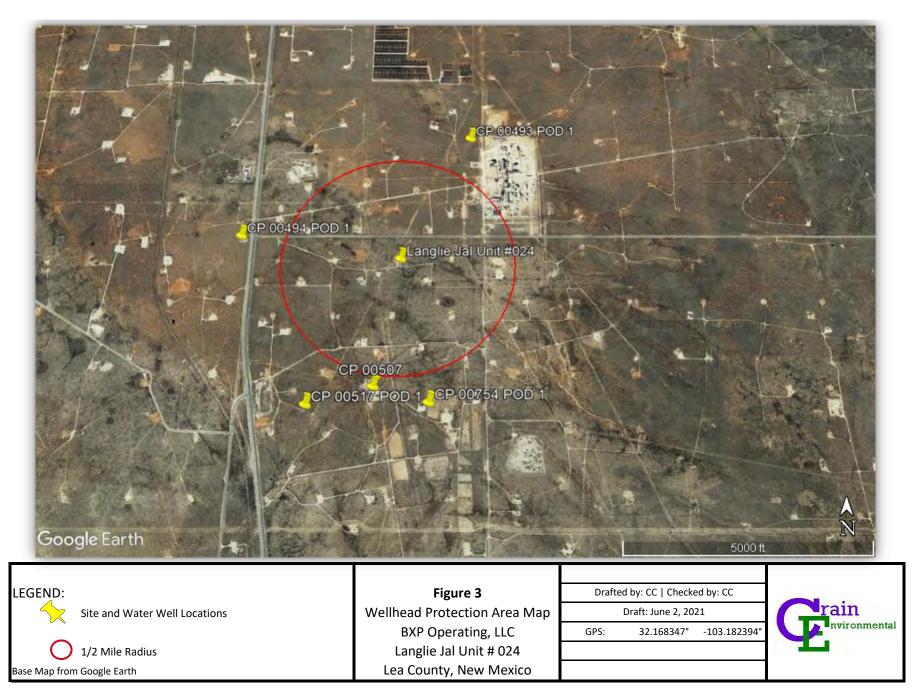
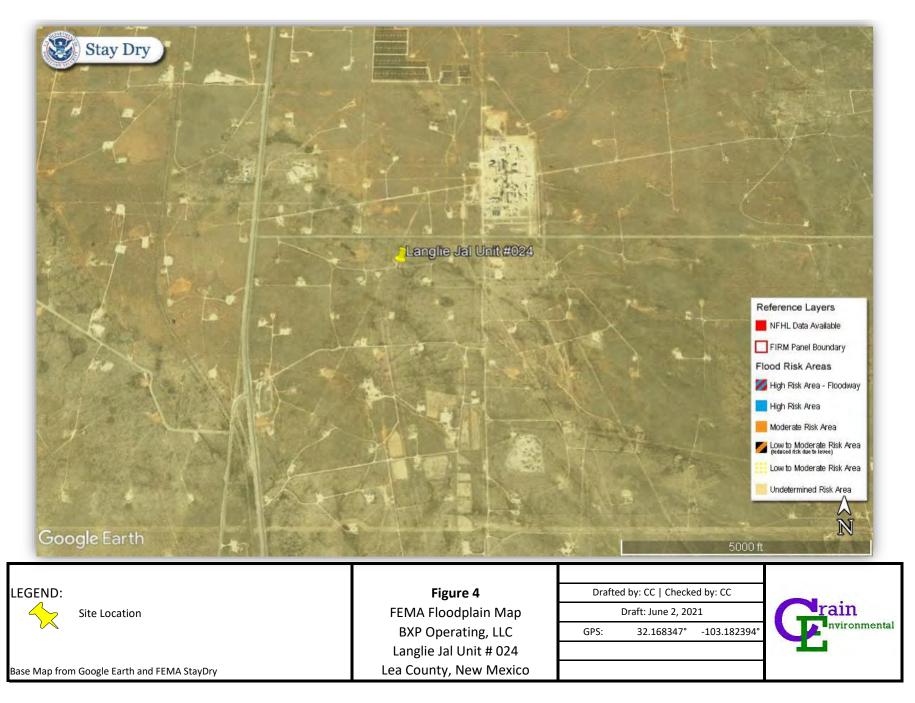
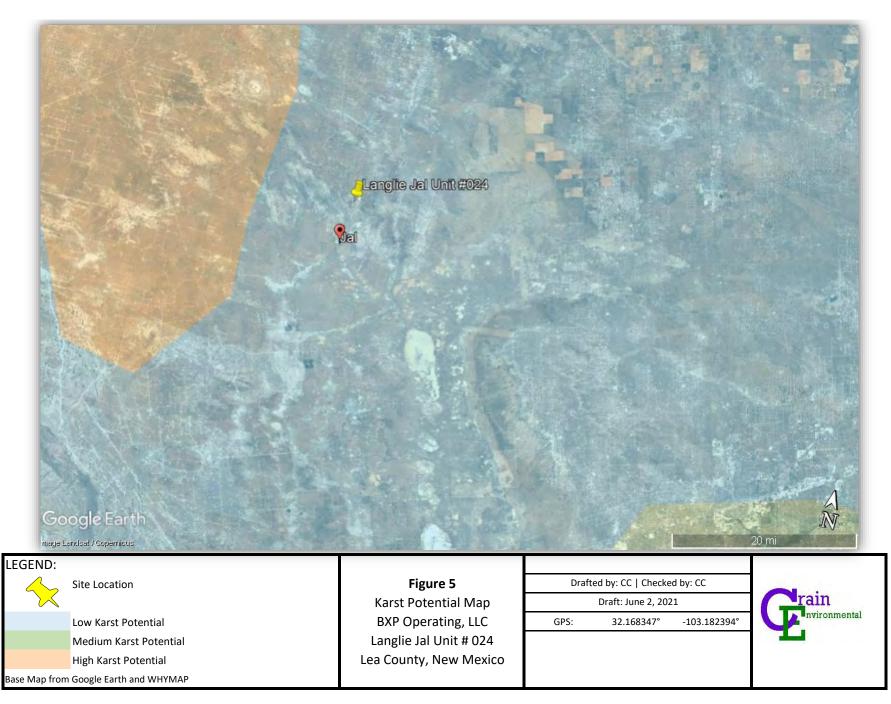


Image D Chorde SPI 0-1 4,600 SPI 0-1 1,00 Prive Spit Spit Prive Spit 0 Spit 0	Sample ID Chloride SF SPI1 0'-1' 24,000 SF SPI1 1'-2' 22,000 SF SPI1 2'-3' 23,000 SF SPI1 3'-4' 10,000 SF SPI1 4'-5' 15,000 SF SPI1 5'-6' 11,000 SF	7,900 SP9 7,200 SP8 5,700 SP8 0 Chloride 1 5,300 1 6,000 1 4,800 1 4,600 1 4,600 SP9 0'-1' 4,000 SP9 1'-2' 3,500 SP9 2'-3' 3,400 SP9 3'-4' 3,400 SP9 4'-5' 3,600	Sample D Chloride SP NE 0-11 80 SP NE 1-27 77 SP NE 2-33 190 SP NE 2-33 190 SP NE SP SE SP SE SP SE SP SE 1-27 4,900 SP SE 1-27 4,900 SP SE 2-37 4,500 SP SE 3-47 4,400 SP SE 3-47 4,200 SP SE 5-67 4,700
LEGEND: Release Path Release Point Sample Location With Depth (below ground surface) and Chloride Concentrations (mg/kg) Stockpiled Soil Note: Sample Locations provided by Aspen Grow, LLC	Figure 2 Soil Sample Analtical Results Map May 8, 2021 BXP Operating, LLC Langlie Jal Unit # 024 Lea County, New Mexico	Drafted by: CC Checked by: CC Draft: June 2, 2021 GPS: 32.168347° -103.182394° Base Map from Google Earth	Grain ^{nvironmental}









Appendix A: Release Notification and Corrective Action Form (NMOCD Form C-141)

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2109236046
District RP	. 215
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party BXP Operating, LLC	OGRID 329487
Contact Name M. Y. Merchant	Contact Telephone 575-492-1236
Contact email mymerch@penrocoil.com	Incident # (assigned by OCD)
Contact mailing address 1515 Calle Sur, Suite 174 Hobbs, NM 88241	

Location of Release Source

Latitude 32.168347____

Longitude - 103.182394____

(NAD 83 in decimal degrees to 5 decimal places)

Site Name LANGLIE JAL UNIT #024	Site Type Injection Well
Date Release Discovered 4/1/2021	API# (if applicable) 30-025-24479

Unit Letter	Section	Township	Range	County	
0	32	24S	37E	LEA	

Surface Owner: State Federal Tribal Private (Name: Mr. Pearce_____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) 0	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 60	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes 🗌 No
Condensate	Volume Released (bbls) 0	Volume Recovered (bbls) 0
Natural Gas	Volume Released (Mcf) 0	Volume Recovered (Mcf) 0
Other (describe)	Volume/Weight Released (provide units) 0	Volume/Weight Recovered (provide units) 0

Cause of Release

Old and worn 2" trunk line. Leak discovered and pumper shut valves and secured leak within 5min. Called for vacuum truck and backhoe, leak estimated produced water released about 60bbl. Estimate water recovered was 15bbl, hauled to LJU water tank for disposal. Backhoe is in the process of removing contaminated soil and placing it on 30ml plastic.

	State of New Mexico		Incident ID	NAPP2109236046
ge 2	Oil Conservation Division	1	District RP	NAPP2109230040
			Facility ID	
			Application ID	
NY .1 ' '				
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the resp More than 5bbl release.	onsible party consider th	ns a major release?	
🛛 Yes 🗌 No				
	notice given to the OCD? By whom? To w			
Yes, Buddy and Gary Ro	obinson OCDNM compliance officer disco	vered the leak while MI	T testing. Leak discov	vered 4/1/2021.
	Initial	Response		
The responsib	ble party must undertake the following actions immedia	-	a safety hazard that would	result in injury
The source of the rel	lease has been stopped.			
🛛 The impacted area h	as been secured to protect human health an	d the environment.		
Released materials h	ave been contained via the use of berms or	dikes, absorbent pads, o	or other containment of	levices.
	recoverable materials have been removed a			
	ed above have not been undertaken lexislain	why		
Test for BTex, TPH, & C	ed above have <u>not</u> been undertaken, explain Chlorides w/independent contractor. Plan to		inated dirt to approve	ed disposal. Replace
Test for BTex, TPH, & C			inated dirt to approve	ed disposal. Replace
Test for BTex, TPH, & C			inated dirt to approve	ed disposal. Replace
Test for BTex, TPH, & C			inated dirt to approve	ed disposal. Replace
Test for BTex, TPH, & C			inated dirt to approve	ed disposal. Replace
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach		dig and remove contam remediation immediately efforts have been succe	y after discovery of a essfully completed or	release. If remediation if the release occurred
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o	Chlorides w/independent contractor. Plan to 1AC the responsible party may commence a narrative of actions to date. If remedial	remediation immediately efforts have been succe please attach all informa best of my knowledge and ifications and perform corr OCD does not relieve the o eat to groundwater, surface	y after discovery of a essfully completed or ition needed for closu understand that pursua ective actions for releas perator of liability shou water, human health or	release. If remediation if the release occurred are evaluation. nt to OCD rules and ses which may endanger ld their operations have the environment. In
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the info regulations all operators are public health or the environment failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	Chlorides w/independent contractor. Plan to MAC the responsible party may commence is a narrative of actions to date. If remedial nt area (see 19.15.29.11(A)(5)(a) NMAC), prmation given above is true and complete to the required to report and/or file certain release not ment. The acceptance of a C-141 report by the G gate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of \mathcal{G} . Merchank	remediation immediately efforts have been succe please attach all informa- ifications and perform corr OCD does not relieve the o eat to groundwater, surface f responsibility for complia	y after discovery of a essfully completed or ition needed for closu understand that pursua ective actions for releas perator of liability shou water, human health or	release. If remediation if the release occurred ire evaluation. nt to OCD rules and ses which may endanger ld their operations have r the environment. In ral, state, or local laws
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	AC the responsible party may commence a narrative of actions to date. If remedial nt area (see 19.15.29.11(A)(5)(a) NMAC), prmation given above is true and complete to the required to report and/or file certain release not ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of	remediation immediately efforts have been succe please attach all informa- ifications and perform corr OCD does not relieve the o eat to groundwater, surface f responsibility for complia	y after discovery of a essfully completed or tion needed for closu understand that pursua ective actions for releas perator of liability shou water, human health or nce with any other fede	release. If remediation if the release occurred ire evaluation. nt to OCD rules and ses which may endanger ld their operations have r the environment. In ral, state, or local laws
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	Chlorides w/independent contractor. Plan to MAC the responsible party may commence is a narrative of actions to date. If remedial nt area (see 19.15.29.11(A)(5)(a) NMAC), prmation given above is true and complete to the required to report and/or file certain release not ment. The acceptance of a C-141 report by the G gate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of \mathcal{G} . Merchank	remediation immediately efforts have been succe please attach all information ifications and perform corr OCD does not relieve the o eat to groundwater, surface f responsibility for complia Title:Produce Produce 	y after discovery of a essfully completed or tion needed for closu understand that pursua ective actions for releas perator of liability shou water, human health or nce with any other fede	release. If remediation if the release occurred are evaluation. Int to OCD rules and ses which may endanger and their operations have the environment. In ral, state, or local laws
Test for BTex, TPH, & C w/clean dirt. Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	Chlorides w/independent contractor. Plan to 1AC the responsible party may commence is a narrative of actions to date. If remedial nt area (see 19.15.29.11(A)(5)(a) NMAC), prmation given above is true and complete to the required to report and/or file certain release not ment. The acceptance of a C-141 report by the G gate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of $\mathcal{LMerchark}$ $\mathcal{LMerchark}$	remediation immediately efforts have been succe please attach all information ifications and perform corr OCD does not relieve the o eat to groundwater, surface f responsibility for complia Title:Produce Produce 	y after discovery of a essfully completed or ition needed for closu understand that pursua ective actions for releas perator of liability shou water, human health or nce with any other fede	release. If remediation if the release occurred are evaluation. Int to OCD rules and ses which may endanger and their operations have the environment. In ral, state, or local laws

Received by OCD: 6/8/2021 9:57:57 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 23 0J 11
Incident ID	NAPP2109236046
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 6/8/2021 9:5	57:57 AM State of New Mexico			Page 24 of 119
			Incident ID	NAPP2109236046
Page 4	Oil Conservation Division	onservation Division		
			Facility ID	
			Application ID	
regulations all operators are requi public health or the environment. failed to adequately investigate an addition, OCD acceptance of a Co and/or regulations.	ion given above is true and complete to the l ired to report and/or file certain release notif The acceptance of a C-141 report by the O nd remediate contamination that pose a three -141 report does not relieve the operator of Merchant	fications and perform OCD does not relieve at to groundwater, su responsibility for cor Title: Date:6/8/21	n corrective actions for rele the operator of liability sho irface water, human health npliance with any other feo Production Supervisor	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
email:mymerch@penroc	oil.com	Telephone:	(575) 492-1236	
OCD Only Received by:		Date:		

Received by OCD: 6/8/2021 9:57:57 AM State of New Mexico

Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	NAPP2109236046
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points \boxtimes Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Production Manger M.Y. Merchant Printed Name: Title: Signature: Gyothia K. Chain as agent for BXP Operating, LLC_{Date:} 6/8/21 email: mymerch@penrocoil.com Telephone: (575) 492-1236 OCD Only Received by: Chad Hensley Date: 08/10/2021 Approved Approved with Attached Conditions of Approval Denied Deferral Approved had Henon Signature: Date: 08/10/2021

.



Appendix B: Photographic Documentation



Photo 1: View to NW of release point (5/22/21).



Photo 3: View to NE at south release path (5/22/21).



Photo 2: View to SE at south release path (5/22/21).



Photo 4: View of stockpiled soil (5/24/21).

Photographs Taken By:	Page No.	Client:	Site Name & Address:	
Kevin Freeman	1 of 1	BXP Operating, LLC	Langlie Jal Unit #024 Lea County, New Mexico	Grain

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Appendix C: Laboratory Analytical Reports



May 19, 2021

Merch Merchant BXP Operating LLC 11757 Katy Freeway Ste 475 Houston, TX 77079 TEL: (281) 848-3696 FAX

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Langlie Jal Unit 24

OrderNo.: 2105424

Dear Merch Merchant:

Hall Environmental Analysis Laboratory received 68 sample(s) on 5/11/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424 Date Reported: 5/19/2021

CLIENT: BXP Operating LLC		Client S	Sample ID:	SP1 0	'-1'	
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021					
Lab ID: 2105424-001	Matrix: SOIL	Matrix: SOIL Received Date: 5/11				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2021 8:37:25 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 8:37:25 PM	
Surr: DNOP	130	70-130	%Rec	1	5/12/2021 8:37:25 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 6:28:56 PM	
Surr: BFB	90.0	70-130	%Rec	1	5/12/2021 6:28:56 PM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.025	mg/Kg	1	5/12/2021 6:28:56 PM	
Toluene	ND	0.049	mg/Kg	1	5/12/2021 6:28:56 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2021 6:28:56 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	5/12/2021 6:28:56 PM	
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/12/2021 6:28:56 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	4600	150	mg/Kg	50	5/15/2021 8:18:18 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 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 S

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

Page 1 of 74

Hall Environmental Analy	vsis Laboratory, Inc.			Lal	nalytical Report b Order 2105424 te Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP1 1	'-2'
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021			
Lab ID: 2105424-002	Matrix: SOIL Received Date: 5/11/2021 7:30:00				021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1100	60	mg/Kg	20	5/13/2021 5:04:50 PM

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

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

Page 2 of 74

Analytical Report Lab Order 2105424

Hall Environmental	Analysis	Laboratory.	Inc.

Date Reported: 5/19/2021

CLIENT:BXP Operating LLCProject:Langlie Jal Unit 24Lab ID:2105424-003	Client Sample ID: SP2 0'-1'Collection Date: 5/8/2021Matrix: SOILReceived Date: 5/11/2021 7:30:00 AM				21	
Analyses	Result	RL Qual		Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2021 8:47:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2021 8:47:20 PM
Surr: DNOP	135	70-130	S	%Rec	1	5/12/2021 8:47:20 PM
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2021 6:52:24 PM
Surr: BFB	90.6	70-130		%Rec	1	5/12/2021 6:52:24 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	4800	150		mg/Kg	50	5/15/2021 8:30:42 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
- Н 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

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

Page 3 of 74

Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP2 1'-	-2'
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021			
Lab ID: 2105424-004	Matrix: SOIL Received Date: 5/11/2021 7:30:00				021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5700	300	mg/Kg	100	5/15/2021 8:43:06 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

Page 4 of 74

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2105424** Date Reported: **5/19/2021**

CLIENT: BXP Operating LLC		Client S	ample ID:	SP3 0'	-1'	
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021					
Lab ID: 2105424-005	Matrix: SOIL Received Date:				021 7:30:00 AM	
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 11:47:48 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 11:47:48 PM	
Surr: DNOP	95.9	70-130	%Rec	1	5/12/2021 11:47:48 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2021 7:15:50 PM	
Surr: BFB	92.6	70-130	%Rec	1	5/12/2021 7:15:50 PM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.025	mg/Kg	1	5/12/2021 7:15:50 PM	
Toluene	ND	0.050	mg/Kg	1	5/12/2021 7:15:50 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	5/12/2021 7:15:50 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	5/12/2021 7:15:50 PM	
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/12/2021 7:15:50 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	8100	300	mg/Kg	100	5/16/2021 8:04:33 PM	

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 MatrixH 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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all Environmental Analysis Laboratory, Inc.		Analytical Report Lab Order 2105424 Data Bapartadi 5/19/2021					
CLIENT: BXP Operating LLC		S Laboratory, IIIC. Date Reported: 5/19/2021 Client Sample ID: SP3 1'-2'					
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021						
Lab ID: 2105424-006	Matrix: SOIL	Received Date: 5/11/2021 7:30:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	5000	300	mg/Kg	100	5/17/2021 11:18:18 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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Hall Environmental Analysis Laboratory, Inc.		Analytical Report Lab Order 2105424 Date Reported: 5/19/2021					
CLIENT: BXP Operating LLC	,515 1.400 1.400 1.99, 1.100	Client Sample ID: SP3 2'-3'					
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021						
Lab ID: 2105424-007	Matrix: SOIL	Received Date: 5/11/2021 7:30:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	5400	300	mg/Kg	100	5/16/2021 8:29:24 PM		

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
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 9 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP3 3'-	-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-008	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5900	300	mg/Kg	100	5/16/2021 8:41:48 PM

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

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24	Client Sample ID: SP4 0'-1' Collection Date: 5/8/2021				
Lab ID: 2105424-009	Matrix: SOIL	Rece	eived Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	95	9.8	mg/Kg	1	5/12/2021 11:28:00 PM
Motor Oil Range Organics (MRO)	93	49	mg/Kg	1	5/12/2021 11:28:00 PM
Surr: DNOP	105	70-130	%Rec	1	5/12/2021 11:28:00 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 7:39:32 PM
Surr: BFB	87.8	70-130	%Rec	1	5/12/2021 7:39:32 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	12000	600	mg/Kg	200	5/16/2021 8:54:13 PM

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 S

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP4 1'-	-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-010	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	6300	300	mg/Kg	100	5/16/2021 9:31:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lal	nalytical Report b Order 2105424 te Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP4 2	'-3'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/20	21
Lab ID: 2105424-011	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4200	150	mg/Kg	50	5/16/2021 9:43:52 PM

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

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

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Released to Imaging: 8/10/2021 11:41:16 AM

Hall Environmental Analy	vsis Laboratory, Inc.			Lal	nalytical Report o Order 2105424 te Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP4 3	-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/20	21
Lab ID: 2105424-012	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4400	150	mg/Kg	50	5/16/2021 9:56:17 PM

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC	Client Sample ID: SP5 0'-1'					
Project: Langlie Jal Unit 24		21				
Lab ID: 2105424-013	Matrix: SOIL	Rece	eived Date:	5/11/2	021 7:30:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/13/2021 3:21:05 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/13/2021 3:21:05 PM	
Surr: DNOP	105	70-130	%Rec	1	5/13/2021 3:21:05 PM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 8:03:21 PM	
Surr: BFB	91.9	70-130	%Rec	1	5/12/2021 8:03:21 PM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.025	mg/Kg	1	5/12/2021 8:03:21 PM	
Toluene	ND	0.049	mg/Kg	1	5/12/2021 8:03:21 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2021 8:03:21 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2021 8:03:21 PM	
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/12/2021 8:03:21 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	11000	600	mg/Kg	200	5/16/2021 10:08:42 PM	

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 S

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

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Hall Environmental Analy	vsis I aboratory Inc			Lab	alytical Report Order 2105424		
Hall Environmental Analysis Laboratory, Inc.			• Date Reported: 5/19				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP5 1'-	-2'		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21		
Lab ID: 2105424-014	Matrix: SOIL	Receiv	ed Date:	d Date: 5/11/2021 7:30:00 AM	021 7:30:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	5600	300	mg/Kg	100	5/16/2021 10:21:07 PM		

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

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

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Analytical Report Lab Order 2105424

Hall Environmental	Analysis	Laboratory.	Inc.
			,

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24	Client Sample ID: SP6 0'-1' Collection Date: 5/8/2021					
Lab ID: 2105424-015	Matrix: SOIL	Rece	eived Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	29	9.4	mg/Kg	1	5/13/2021 12:46:53 AM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/13/2021 12:46:53 AM	
Surr: DNOP	117	70-130	%Rec	1	5/13/2021 12:46:53 AM	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2021 8:26:42 PM	
Surr: BFB	89.6	70-130	%Rec	1	5/12/2021 8:26:42 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	7900	300	mg/Kg	100	5/16/2021 10:33:31 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 22 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP6 1'	-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-016	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	7200	300	mg/Kg	100	5/16/2021 10:45:55 PM

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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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Released to Imaging: 8/10/2021 11:41:16 AM

Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 2 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP6 2'-	-3'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-017	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5700	300	mg/Kg	100	5/16/2021 10:58:20 PM

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
- S % Recovery outside of range due to dilution or matrix

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

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Released to Imaging: 8/10/2021 11:41:16 AM

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424

Date Reported: 5/19/2021

CLIENT: BXP Operating LLCProject: Langlie Jal Unit 24	Client Sample ID: SP7 0'-1' Collection Date: 5/8/2021				
Lab ID: 2105424-019	Matrix: SOIL	Rec	eived Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 8:57:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 8:57:16 PM
Surr: DNOP	95.2	70-130	%Rec	1	5/12/2021 8:57:16 PM
EPA METHOD 8015D: GASOLINE F	RANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2021 8:50:08 PM
Surr: BFB	91.9	70-130	%Rec	1	5/12/2021 8:50:08 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5400	150	mg/Kg	50	5/16/2021 11:10:45 PM

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 S

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

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Hall Environmental Analy	vsis Laboratory Inc			Lab	alytical Report Order 2105424	
	sis Laboratory, me.		Date Reported: 5/19/2021			
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP7 1'-	-2'	
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21	
Lab ID: 2105424-020	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	5600	300	mg/Kg	100	5/16/2021 11:23:10 PM	

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

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

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Hall Environmental Analy	vsis Laboratory, Inc			La	nalytical Report b Order 2105424 te Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	: SP7 2	'-3'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/20	21
Lab ID: 2105424-021	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5200	150	mg/Kg	50	5/17/2021 12:00:23 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 219 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP7 3'-	-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-022	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4300	300	mg/Kg	100	5/14/2021 8:52:09 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 29 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	: SP7 4'-	-5'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-023	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4700	300	mg/Kg	100	5/14/2021 9:04:31 AM

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 2105424

Hall Environmental	Analysis	Laboratory,	Inc.

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24	Client Sample ID: SP8 0'-1' Collection Date: 5/8/2021				
Lab ID: 2105424-024	Matrix: SOIL	Rece	eived Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	9.9	9.9	mg/Kg	1	5/13/2021 10:20:57 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/13/2021 10:20:57 AM
Surr: DNOP	101	70-130	%Rec	1	5/13/2021 10:20:57 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2021 9:13:28 PM
Surr: BFB	92.2	70-130	%Rec	1	5/12/2021 9:13:28 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5300	300	mg/Kg	100	5/14/2021 9:16:52 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
- Н 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

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

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Hall Environmental Analy	vsis I aboratory Inc			Lab	alytical Report Order 2105424
Hall Environmental Analysis Laboratory, Inc.			e Reported: 5/19/2021		
CLIENT: BXP Operating LLC		Client Sa	mple ID:	: SP8 1'-	-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-025	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	6000	300	mg/Kg	100	5/14/2021 9:29:12 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis I aboratory. Inc			Lab	alytical Report Order 2105424	
Hall Environmental Analysis Laboratory, Inc.		• Date Reported: 5/19/20				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP8 2'-	-3'	
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21	
Lab ID: 2105424-026	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	4800	300	mg/Kg	100	5/14/2021 9:41:34 AM	

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	usic I abaratary. Inc			Lab	alytical Report Order 2105424
Hall Environmental Analysis Laboratory, Inc.			e Reported: 5/19/2021		
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP8 3'-	-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-027	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4800	300	mg/Kg	100	5/14/2021 9:53:55 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical 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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Released to Imaging: 8/10/2021 11:41:16 AM

Hall Environmental Analy	vsis Laboratorv. Inc.			Lab	alytical Report Order 2105424 re Reported: 5/19/2021	
CLIENT: BXP Operating LLC		Client Sa	mple ID:		L.	
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-028	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	4500	300	mg/Kg	100	5/14/2021 10:06:18 AM	

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 22 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP8 5'	-6'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-029	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4600	300	mg/Kg	100	5/14/2021 10:18:40 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical 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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Released to Imaging: 8/10/2021 11:41:16 AM

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24	Client Sample ID: SP9 0'-1' Collection Date: 5/8/2021				
Lab ID: 2105424-030	Matrix: SOIL	Rece	eived Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/13/2021 10:49:51 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/13/2021 10:49:51 AM
Surr: DNOP	100	70-130	%Rec	1	5/13/2021 10:49:51 AM
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 9:36:54 PM
Surr: BFB	92.6	70-130	%Rec	1	5/12/2021 9:36:54 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4000	300	mg/Kg	100	5/14/2021 10:55:43 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 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 S

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 22 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP9 1'	-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-031	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	3500	300	mg/Kg	100	5/14/2021 11:08:03 AM

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

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

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Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021	
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP9 2'-	-3'	
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021					
Lab ID: 2105424-032	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	3400	300	mg/Kg	100	5/14/2021 11:20:23 AM	

Qualifiers:

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

- D
 Sample Diluted Due to Matrix

 H
 Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 26 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	: SP9 3'-	-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-033	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	3400	300	mg/Kg	100	5/14/2021 11:32:44 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory. Inc.			Lab	alytical Report Order 2105424 re Reported: 5/19/2021
CLIENT: BXP Operating LLC	, <u></u> , , ,	Client Sa	mple ID:		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-034	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	3600	300	mg/Kg	100	5/14/2021 11:45:05 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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 2105424

Hall Environmental	Analysis	Laboratory.	Inc.
			,

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24	Client Sample ID: SP10 0'-1' Collection Date: 5/8/2021					
Lab ID: 2105424-035	Matrix: SOIL	Rece	eived Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/13/2021 10:59:30 AM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2021 10:59:30 AM	
Surr: DNOP	103	70-130	%Rec	1	5/13/2021 10:59:30 AM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 10:00:34 PM	
Surr: BFB	91.3	70-130	%Rec	1	5/12/2021 10:00:34 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	11000	300	mg/Kg	100	5/14/2021 11:57:26 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
- Н 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

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 9 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP10 1	!'-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-036	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	6100	300	mg/Kg	100	5/14/2021 12:09:46 PM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	zsis Laboratory. Inc.			Lab	alytical Report Order 2105424	
CLIENT: BXP Operating LLC		Client Sa	mple ID:		e Reported: 5/19/2021	
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-037	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	5800	300	mg/Kg	100	5/14/2021 12:22:07 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Released to Imaging: 8/10/2021 11:41:16 AM

Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report Order 2105424 re Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:		*
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-038	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5400	300	mg/Kg	100	5/14/2021 12:34:28 PM

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

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

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Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021	
CLIENT: BXP Operating LLC		Client Sa	nple ID:	SP10 4	l'-5'	
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021					
Lab ID: 2105424-039	2105424-039 Matrix: SOIL Reco		Received Date: 5/11/2021 7:30:0		021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	5000	300	mg/Kg	100	5/14/2021 12:46:49 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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					alytical Report Order 2105424	
Hall Environmental Analy	Hall Environmental Analysis Laboratory, Inc.			Date Reported: 5/19/2021		
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP10 5	5'-6'	
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21	
Lab ID: 2105424-040	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	5100	300	mg/Kg	100	5/14/2021 1:23:50 PM	

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

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

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Released to Imaging: 8/10/2021 11:41:16 AM

Analytical Report Lab Order 2105424

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/19/2021

CLIENT:BXP Operating LLCProject:Langlie Jal Unit 24Lab ID:2105424-041	Matrix: SOIL	5/8/202	P11 0'-1' /8/2021 /11/2021 7:30:00 AM		
Analyses	Result	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	22	9.1	mg/Kg	1	5/13/2021 11:09:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/13/2021 11:09:11 AM
Surr: DNOP	114	70-130	%Rec	1	5/13/2021 11:09:11 AM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2021 11:11:49 PM
Surr: BFB	89.0	70-130	%Rec	1	5/12/2021 11:11:49 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	24000	1500	mg/Kg	500	5/17/2021 12:12:47 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
- 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 S

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021		
CLIENT: BXP Operating LLC	Client Sample ID: SP11 1'-2'						
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021						
Lab ID: 2105424-042	Matrix: SOIL	Received Date: 5/11/2021 7:30:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	20000	600	mg/Kg	200	5/17/2021 12:25:11 AM		

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021		
CLIENT: BXP Operating LLC	Client Sample ID: SP11 2'-3'						
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021						
Lab ID: 2105424-043	Matrix: SOIL	Received Date: 5/11/2021 7:30:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	23000	600	mg/Kg	200	5/17/2021 12:37:36 AM		

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 10 Reported: 5/19/2021		
CLIENT: BXP Operating LLC	Client Sample ID: SP11 3'-4'						
Project: Langlie Jal Unit 24	Collection Date: 5/8/2021						
Lab ID: 2105424-044	Matrix: SOIL	Received Date: 5/11/2021 7:30:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	10000	300	mg/Kg	100	5/14/2021 3:59:15 PM		

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	nple ID:	SP11 4	l'-5'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-045	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	15000	600	mg/Kg	200	5/17/2021 12:50:02 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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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					alytical Report Order 2105424
Hall Environmental Analy	all Environmental Analysis Laboratory, Inc.			Dat	e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP11 5	5'-6'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-046	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	11000	300	mg/Kg	100	5/14/2021 4:48:46 PM

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 2105424

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC		Client S	Sample ID:	SP12 ()'-1'	
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-047	Matrix: SOIL Received Date: 5/11/2 Result RL Qual Units DF				/2021 7:30:00 AM	
Analyses					Date Analyzed	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.023	mg/Kg	1	5/12/2021 11:35:28 PM	
Toluene	ND	0.046	mg/Kg	1	5/12/2021 11:35:28 PM	
Ethylbenzene	ND	0.046	mg/Kg	1	5/12/2021 11:35:28 PM	
Xylenes, Total	ND	0.092	mg/Kg	1	5/12/2021 11:35:28 PM	
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/12/2021 11:35:28 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	12000	300	mg/Kg	100	5/14/2021 5:25:50 PM	

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 S

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

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					alytical Report Order 2105424
Hall Environmental Analy	all Environmental Analysis Laboratory, Inc.			Dat	e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP12 1	!'-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-048	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	11000	300	mg/Kg	100	5/14/2021 5:38:11 PM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	ysis Laboratory, Inc.			Lab	alytical Report Order 2105424 e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP12 2	2'-3'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-049	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	6800	300	mg/Kg	100	5/14/2021 5:50:34 PM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory. Inc.			Lab	alytical Report	
CLIENT: BXP Operating LLC			mple ID:		re Reported: 5/19/2021	
Project: Langlie Jal Unit 24		Client Sample ID: SP12 3'-4' Collection Date: 5/8/2021				
Lab ID: 2105424-050	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	9200	300	mg/Kg	100	5/14/2021 6:27:40 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory. Inc.			Lab	alytical Report 9 Order 2105424 9 Reported: 5/19/2021	
CLIENT: BXP Operating LLC	,	Client Sa	mple ID:			
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-051	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	5500	300	mg/Kg	100	5/14/2021 6:40:01 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report 9 Order 2105424 9 Reported: 5/19/2021	
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP12 5	5'-6'	
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-052	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	6500	300	mg/Kg	100	5/14/2021 6:52:21 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report Lab Order 2105424

Hall Environmental	Analysis	Laboratory	Inc.
	•	•	,

Date Reported:	5/19/2021
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CLIENT: BXP Operating LLC		Client S	Sample ID:	SP NV	V 0'-1'	
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021				
Lab ID: 2105424-053	Matrix: SOIL	Rece	ived Date:	Date: 5/11/2021 7:30:00 AM		
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.024	mg/Kg	1	5/12/2021 11:59:04 PM	
Toluene	ND	0.049	mg/Kg	1	5/12/2021 11:59:04 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2021 11:59:04 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2021 11:59:04 PM	
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/12/2021 11:59:04 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	4500	300	mg/Kg	100	5/14/2021 7:04:42 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory Inc			Lab	alytical Report Order 2105424
				Dat	e Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP NW	V 1'-2'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-054	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2600	300	mg/Kg	100	5/14/2021 7:17:03 PM

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory. Inc.			Lab	alytical Report Order 2105424	
CLIENT: BXP Operating LLC			mnle ID•		e Reported: 5/19/2021	
Project: Langlie Jal Unit 24	Client Sample ID: SP NW 2'-3' Collection Date: 5/8/2021					
Lab ID: 2105424-055	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	2200	300	mg/Kg	100	5/14/2021 7:29:23 PM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis I aboratory. Inc			Lab	alytical Report Order 2105424
		e Reported: 5/19/2021			
CLIENT: BXP Operating LLC		Client Sa	nple ID:	SP NW	V 3'-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-056	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2000	300	mg/Kg	100	5/14/2021 7:41:44 PM

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
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report
Lab Order 2105424

Hall Environmental	Analysis	Laboratory.	Inc.
	•		

Date Reported: 5/19/2021

CLIENT:BXP Operating LLCProject:Langlie Jal Unit 24Lab ID:2105424-057	Matrix: SOIL	Client S Collee Rece			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/13/2021 1:46:28 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/13/2021 1:46:28 PM
Surr: DNOP	128	70-130	%Rec	1	5/13/2021 1:46:28 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/13/2021 12:22:42 AM
Surr: BFB	90.5	70-130	%Rec	1	5/13/2021 12:22:42 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	80	60	mg/Kg	20	5/18/2021 10:42:16 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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Hall Environmental Analy	raia Laboratory Inc				palytical Report Order 2105424		
Hall Environmental Analysis Laboratory, Inc.			Date Reported: 5/2				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP NE	E 1'-2'		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/20	21		
Lab ID: 2105424-058	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	77	60	mg/Kg	20	5/18/2021 10:54:41 AM		

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
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory. Inc.			Lal	alytical Report o Order 2105424 to Benerated: 5/10/2021	
CLIENT: BXP Operating LLC			mnle ID•		te Reported: 5/19/2021	
Project: Langlie Jal Unit 24	Client Sample ID: SP NE 2'-3' Collection Date: 5/8/2021					
Lab ID: 2105424-059	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	190	60	mg/Kg	20	5/18/2021 11:07:05 AM	

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
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report
Lab Order 2105424

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105424 Date Reported: 5/19/2021

CLIENT: BXP Operating LLC	Client Sample ID: SP SE 0'-1'				
Project: Langlie Jal Unit 24		Colle	ction Date:	5/8/202	21
Lab ID: 2105424-060	Matrix: SOIL	Rec	eived Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/13/2021 11:18:53 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2021 11:18:53 AM
Surr: DNOP	104	70-130	%Rec	1	5/13/2021 11:18:53 AM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2021 3:52:00 PM
Surr: BFB	89.6	70-130	%Rec	1	5/12/2021 3:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5200	300	mg/Kg	100	5/14/2021 8:55:51 PM

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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					alytical Report Order 2105424		
Hall Environmental Analysis Laboratory, Inc.			• Date Reported: 5/19/				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP SE	1'-2'		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21		
Lab ID: 2105424-061	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	4900	300	mg/Kg	100	5/14/2021 9:08:12 PM		

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report • Order 2105424 re Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:		
Project: Langlie Jal Unit 24		Collection	on Date:	5/8/202	21
Lab ID: 2105424-062	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4500	300	mg/Kg	100	5/14/2021 8:49:41 AM

Qualifiers:

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

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analy	vsis Laboratory, Inc.			Lab	alytical Report Order 2105424 Reported: 5/19/2021
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP SE	3'-4'
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21
Lab ID: 2105424-063	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4400	300	mg/Kg	100	5/14/2021 9:02:06 AM

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

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

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					alytical Report Order 2105424		
Hall Environmental Analysis Laboratory, Inc.			• Date Reported: 5/19/				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP SE	4'-5'		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21		
Lab ID: 2105424-064	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	4200	300	mg/Kg	100	5/14/2021 9:14:30 AM		

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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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					alytical Report Order 2105424		
Hall Environmental Analysis Laboratory, Inc.			• Date Reported: 5/1				
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP SE	5'-6'		
Project: Langlie Jal Unit 24		Collecti	on Date:	5/8/202	21		
Lab ID: 2105424-065	Matrix: SOIL	Receiv	ed Date:	5/11/20	021 7:30:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: VP		
Chloride	4700	300	mg/Kg	100	5/14/2021 10:37:17 AM		

Qualifiers:

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

- D Sample Diluted Due to MatrixH 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 2105424

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/19/2021

CLIENT: BXP Operating LLC Project: Langlie Jal Unit 24		Client Sample ID: SP SW 0'-1' Collection Date: 5/8/2021									
Lab ID: 2105424-066	Matrix: SOIL Received Date: 5/11/2021 7:30:00 AM										
Analyses	Result	RL Qu	al Units	DF	Date Analyzed						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB						
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/13/2021 11:28:34 AM						
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/13/2021 11:28:34 AM						
Surr: DNOP	93.6	70-130	%Rec	1	5/13/2021 11:28:34 AM						
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: CCM						
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2021 4:52:00 PM						
Surr: BFB	88.2	70-130	%Rec	1	5/12/2021 4:52:00 PM						
EPA METHOD 300.0: ANIONS					Analyst: VP						
Chloride	ND	60	mg/Kg	20	5/17/2021 1:02:26 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 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 S

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

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Hall Environmental Analy	vsis I aboratory. Inc		o Order 2105424						
	sis Laboratory, me.	Date Reported: 5/19/202							
CLIENT: BXP Operating LLC		Client Sa	mple ID:	SP SW	V 1'-2'				
Project: Langlie Jal Unit 24		Collection Date: 5/8/2021							
Lab ID: 2105424-067	Matrix: SOIL	Receiv	ed Date:	5/11/2	021 7:30:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	5/17/2021 1:14:52 AM				

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
- S % Recovery outside of range due to dilution or matrix

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

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Released to Imaging: 8/10/2021 11:41:16 AM

Hall Environmental Analy	ysis Laboratory, Inc.	Analytical Report Lab Order 2105424 Date Reported: 5/19/2021							
CLIENT: BXP Operating LLC	• • • • • • • • • • • • • • • • • • • •	Client Sample ID: SP SW 2'-3'							
Project: Langlie Jal Unit 24 Lab ID: 2105424-068	Matrix: SOIL	Collection Date: 5/8/2021Matrix: SOILReceived Date: 5/11/2021 7:30:00 AM							
Analyses	Result	RL Qual	Units	DF	Date Analyzed				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	5/17/2021 1:27:16 AM				

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
- S % Recovery outside of range due to dilution or matrix

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

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Client: Project:		Operating LLC lie Jal Unit 24			
Sample ID:	MB-59998	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 59998	RunNo: 77382		
Prep Date:	5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745670	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-59998	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 59998	RunNo: 77382		
Prep Date:	5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745671	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 93.8 90	110	
Sample ID:	MB-60009	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 60009	RunNo: 77382		
Prep Date:	5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745704	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-60009	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 60009	RunNo: 77382		
Prep Date:	5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745705	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 94.7 90	110	
Sample ID:	MB-60033	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 60033	RunNo: 77389		
Prep Date:	5/14/2021	Analysis Date: 5/14/2021	SeqNo: 2747110	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-60033	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 60033	RunNo: 77389		
Prep Date:	5/14/2021	Analysis Date: 5/14/2021	SeqNo: 2747111	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 94.6 90	110	

Qualifiers:

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- B Analyte detected in the associated Method Blank
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Client: Project:	1	erating LLC al Unit 24								
Sample ID:	MB-60024	SampType	e: MBLK	Tes	tCode: EPA	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	: 60024	RunNo: 77416						
Prep Date:	5/13/2021	Analysis Date	: 5/14/2021	S	SeqNo: 274	47306	Units: mg/K	g		
Analyte Chloride		Result F ND	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-60024	SampType	e: LCS	Tes	tCode: EPA	A Method	300.0: Anion:	s		
Client ID:	LCSS	Batch ID	60024	F	RunNo: 774	416				
Prep Date:	5/13/2021	Analysis Date	: 5/14/2021	S	SeqNo: 274	47307	Units: mg/K	g		
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	94.3	90	110			
Sample ID:	MB-60025	SampType	e: MBLK	Tes	tCode: EPA	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	60025	F	RunNo: 774	416				
Prep Date:	5/13/2021	Analysis Date	5/14/2021	5	SeqNo: 274	47336	Units: mg/K	g		
Analyte		Result F	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-60025	SampType	e: LCS	Tes	tCode: EPA	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	6 0025	F	RunNo: 774	416				
Prep Date:	5/13/2021	Analysis Date	: 5/14/2021	S	SeqNo: 274	47337	Units: mg/K	g		
Analyte		Result F	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	93.5	90	110			

Qualifiers:

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- P Sample pH Not In Range
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1	erating LLC Jal Unit 24	2								
Sample ID: MB-59953	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 59	953	F	RunNo: 77332					
Prep Date: 5/11/2021	Analysis D	ate: 5/	12/2021	5	SeqNo: 2	744546	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50	40.00				100			
Surr: DNOP	11		10.00		111	70	130			
Sample ID: LCS-59953	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 59	953	F	RunNo: 7	7332				
Prep Date: 5/11/2021	Analysis D	ate: 5/	12/2021	S	SeqNo: 2	744572	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	141			
Surr: DNOP	4.9		5.000		98.2	70	130			
Sample ID: 2105424-024AMS	SampT	ype: M \$	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: SP8 0'-1'	Batch	ID: 59	984	F	RunNo: 7	7357				
Prep Date: 5/12/2021	Analysis D	ate: 5/	13/2021	5	SeqNo: 2	745328	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.8	49.02	9.904	100	15	184			
Surr: DNOP	5.2		4.902		106	70	130			
Sample ID: 2105424-024AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SP8 0'-1'	Batch	ID: 59	984	F	RunNo: 7	7357				
Prep Date: 5/12/2021	Analysis D	ate: 5/	13/2021	S	SeqNo: 2	745329	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.8	49.07	9.904	95.0	15	184	4.46	23.9	
Surr: DNOP	5.1		4.907		105	70	130	0	0	
Sample ID: LCS-59984	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	1D: 59	984	F	RunNo: 7	7357				
Prep Date: 5/12/2021	Analysis D	ate: 5/	13/2021	S	SeqNo: 2	745349	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	115	68.9	141			
Surr: DNOP	5.9		5.000		117	70	130			

Qualifiers:

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S % Recovery outside of range due to dilution or matrix

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2105424

19-May-21

	Operating LL ie Jal Unit 24									
Sample ID: MB-59984	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 59	984	F	lunNo: 7	7357				
Prep Date: 5/12/2021	Analysis I	Date: 5/	13/2021	S	eqNo: 2	745350	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Qualifiers:

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- Р Sample pH Not In Range
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WO#:

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-	perating LLC Jal Unit 24			
Sample ID: mb-59937	SampType: MBLK		8015D: Gasoline Range	
Client ID: PBS	Batch ID: 59937	RunNo: 77321		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744159	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 920 1000	92.0 70	130	
Sample ID: Ics-59937	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 59937	RunNo: 77321		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744160	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 102 78.6	131	
Surr: BFB	1000 1000	102 70	130	
Sample ID: LCS-59943	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 59943	RunNo: 77325		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744974	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00		131	
Surr: BFB	990 1000	99.5 70	130	
Sample ID: MB-59943	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 59943	RunNo: 77325		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744975	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	840 1000	84.2 70	130	
Sample ID: 2105424-060ams	SampType: MS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: SP SE 0'-1'	Batch ID: 59943	RunNo: 77325		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744977	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Gasoline Range Organics (GRO)	24 4.7 23.43		114	
Surr: BFB	960 937.2	102 70	130	
Sample ID: 2105424-060ams	d SampType: MSD	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: SP SE 0'-1'	Batch ID: 59943	RunNo: 77325		
Prep Date: 5/11/2021	Analysis Date: 5/12/2021	SeqNo: 2744978	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#	2105424
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19-May-21

Client:	BXP Operating LI	LC								
Project:	Langlie Jal Unit 24	4								
Sample ID: 2105424	-060amsd Samp	Туре: М	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: SP SE 0	' -1' Bat	ch ID: 59	943	F	RunNo: 7	7325				
Prep Date: 5/11/20	21 Analysis	Date: 5/	12/2021	S	SeqNo: 2	744978	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 27	4.9	24.49	0	110	61.3	114	10.6	20	
Surr: BFB	1100		979.4		108	70	130	0	0	

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- Р Sample pH Not In Range
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-	erating LLC al Unit 24									
Sample ID: mb-59937	SampType:	MBLK	Tes	tCode: EPA M	lethod 8	8021B: Volati	les			
Client ID: PBS	Batch ID:	59937	F	RunNo: 77321						
Prep Date: 5/11/2021	Analysis Date:	5/12/2021	S	SeqNo: 2744193 U			Units: mg/Kg			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND 0	.10								
Benzene	ND 0.0)25								
Toluene	ND 0.0	050								
Ethylbenzene	ND 0.0	050								
Xylenes, Total	ND 0	.10								
Surr: 4-Bromofluorobenzene	1.0	1.000		104	70	130				
Sample ID: LCS-59937	SampType:	LCS	Tes	tCode: EPA M	lethod 8	3021B: Volati	les			
Client ID: LCSS	Batch ID:	59937	F	RunNo: 77321						
Prep Date: 5/11/2021	Analysis Date:	5/12/2021	5	SeqNo: 27441	94	Units: mg/Kg	J			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	1.0 0	.10 1.000	0	100	80	120				
Benzene	1.0 0.0	1.000	0	99.5	80	120				
Toluene	1.0 0.0	1.000	0	101	80	120				
Ethylbenzene	1.0 0.0	1.000	0	101	80	120				
Xylenes, Total	3.0 0	.10 3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	1.1	1.000		106	70	130				
Sample ID: LCS-59943	SampType:	LCS	Tes	tCode: EPA M	lethod 8	8021B: Volati	les			
Client ID: LCSS	Batch ID:	59943	F	RunNo: 77325						
Prep Date: 5/11/2021	Analysis Date:	5/12/2021	S	SeqNo: 27449	98	Units: %Rec				
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.87	1.000		87.0	70	130				
Sample ID: MB-59943	SampType:	MBLK	Tes	tCode: EPA M	lethod 8	3021B: Volati	les			
Client ID: PBS	Batch ID:	59943	F	RunNo: 77325						
Prep Date: 5/11/2021	Analysis Date:	5/12/2021	S	SeqNo: 27449	99	Units: %Rec				
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.82	1.000		82.0	70	130				

Qualifiers:

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

RL Reporting Limit

2105424

19-May-21

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	7 TEL: 505-345-3	ntal Analysis Labo 4901 Hawk Albuquerque, NM 975 FAX: 505-34 s.hallenvironment	ins NE 87109 Sam 5-4107	nple Log-In C	heck List
Client Name: BXP Operating LLC	Work Order Numb	ber: 2105424		RcptNo:	1
Received By: Juan Rojas	5/11/2021 7:30:00 /	AM	flow and		
Completed By: Sean Livingston	5/11/2021 8:15:04 /	AM	Guanda Jo Soul	n -/	
Reviewed By: JR S/11/2/				Join-	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗀	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples	?	Yes 🔽	No 🗌		
4. Were all samples received at a temperature	e of ⊃0° C to 6.0°C	Yes 🗹	No 🗀		·
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6, Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes	No 🗌		5
10. Were any sample containers received brok	en?	Yes	No 🗹	# of preserved bottles checked	slulzr
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No	for pH: (<2 or >	12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	*****	
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	Νο	Checked by:	
Special Handling (if applicable)					
15, Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding:	in and the line. He will be an an and a second s		2		
Client Instructions:			ar de linne de linne de linne de linne i Tanzano	 	
16. Additional remarks:					
Cooler Information Cooler No Temp °C Condition S 1 0.6 Good 2 1.3 Good	eal Intact Seal No	Seal Date	Signed By		

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Page 1 of 1

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Appendix D: Aspen Grow LLC Remediation Plan and Product Information To: BXP OPERATING LLC May 23, 2021 1515 Calle Sur, Suite 174 Hobbs, New Mexico 88241 (575) 492-1236

Re: Langlie Jal Unit #024 Lease Spill Site located in Section 32, Township 24S R37E in Lea County, New Mexico.

PLAN TO REMEDIATE:

Aspen Grow, an Oil and Chloride remediation company is working with the lease owners, BXP and Crain Environmental regarding the spill at the Langlie Jal Unit #024 Lease Spill Site located in Section 32, Township 24S R37E in Lea County, New Mexico (Lat 32.1683467, Lon -103.182394). The Form C-141 dated 4/2/2021 states the cause of the leak to be from a 2" buried trunk line just off the pad of the Langlie Jal Unit #24 in Lea County, New Mexico. The leak was discovered by the pumper, he closed the valves and secured the leak. The pumper called the vacuum truck and for a backhoe to help contain the leak and run off. The leak produced an estimated 60 BBL. of produced water, an estimated 15 BBL was recovered and hauled to LJU water tank for disposal. The backhoe was used to remove the contaminated soil from the leak source area.

The soil was placed nearby to be treated by Aspen Grow LLC with a probiotic to help return the soil back to the original composition. The pipeline ditch where the leak occurred was left open so Aspen Grow could apply the probiotic soil stimulant to the contaminated area around the buried pipeline. The produced water run down a lease road and into a pasture area. This area will be treated for contamination by Aspen Grow. The entire area where the release occurred, ran or appeared was sampled for Chlorides, Btex and TPH in 16 different locations with 4 of the locations in outlying areas, outside the contamination zone estimated. Two outlying samples were analyzed to be contaminated, so the contamination area will be expanded to a larger area.

Aspen Grow's approach is to remediate and restore the contaminated soils to a healthy productive condition by rebuilding the biological health of the soil. This can be accomplished through an application of products that contain bio stimulants, organic acids, biologically produced enzymes and chelating agents which stimulate the natural beneficial microorganisms in the soil. This is accomplished by restoring the population and proper ratio of beneficial micro and macro-organisms, soils can be revitalized back to being healthy and productive. To achieve this goal, Aspen Grow will plan on a gradual process of application to the contaminated sites to minimize the erosion and runoff of the product. This topical application process will contain the spill to the current area to prevent any expansion of the spill area. The site will be treated for ten (10) weeks with fresh water and bio-products that will nourish the soil system by suppling special humic acids, minerals and nutrients that promote the growth of natural aerobic microbes while improving the soil's structure and natural fertility. Aspen Grow will re-test the site after the initial application period to get analysis of the condition of the soil and to see if any additional application is needed. Our goal is to return the soil to as near original condition as possible with minimal erosion or damage to the top soil and to meet or exceed the requirements set by the OCD Office.

The lease owners and Aspen Grow will forward our initial lab analysis, sketch of contaminated area to the OCD office for Remediation Plan Approval. Submission of the initial lab test results with the sketch map showing the contaminated areas of the location marking the contamination that will need to be addressed. Upon final treatment and final analysis lab readings, that meet or exceed the OCD approval levels, a requested closure report will be submitted for review.

Location: Langlie Jal Unit #024 Lease Spill Site located in Section 32, Township 24S R37E in Lea County, New Mexico.

Work Preformed:

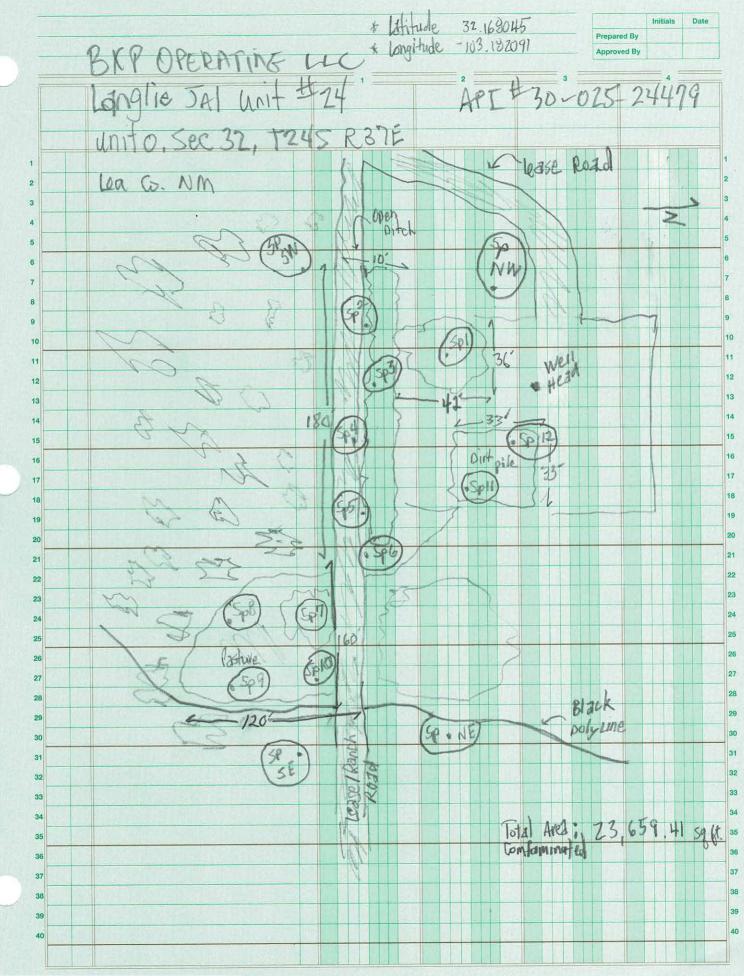
Aspen Grow LLC discussed with a lease owner regarding the spill site to assess, sample and measure the contaminated spill area. An onsite inspection will determine the cause of the TPH and produced water to spill. Aspen Grow will travel to the spill site location to measure the entire spill site and to mark the sample points and the contaminated areas with marker flags. The spill site will be sketched to show the sample points and the overall area of the contamination.

Aspen Grow representatives have taken pre-treatment soil samples inside the contaminated site, twelve locations (12) and (4) four samples outside the contaminated area, one on each side of the contamination area, North, South, East and West of the spill site (4 sample locations). The samples will be taken in Chain of Custody (COC) jars and placed on ice. Contaminated Soil Samples were submitted to Hall Environmental Lab for analysis, the results are attached.

Upon approval of the Plan of Action to Remediate from the OCD and the Lease Owners. Aspen Grow will proceed with the application of pro-biotics product to start the process of re-mediation. Please respond with any question, concerns or comments to either or both parties below:

Aspen Grow LLC P.O. Box 2177 Boerne, Texas 78006 (936) 615-2088 (Don Holt -Cell) (210) 213-0397 (Kevin Freeman -Cell) Received by OCD: 6/8/2021 9:57:57 AM

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Aspen Grow LLC.

3001 West Loop 250 N. Ste. C 105-166 Midland, Texas 79705 210-213-0397 936-615-2088

<u>Bioremediation of Soils Contaminated with</u> <u>Saline Rich Water and Petroleum Hydrocarbons</u>

With the production of oil comes the possibility of accidental spills resulting from ruptured delivery lines or blowouts. The damage to surrounding environments can be devastating and require extensive remediation efforts and time to restore the affected land. The problems generated from such a discharge can include oil contamination and/or salt damage to vegetation and wildlife. Remediation efforts to correct such problems have had limited success. However, probiotic technology (the use of complex organic materials) has been applied to affected areas that initiate microbial degradation of petroleum products and neutralize harmful salt conditions. Salt damage has inhibited the growth of vegetation and degradation of oil contaminants because of high osmotic conditions in the area influenced by the spill. Therefore, salt is often the true culprit responsible for damage to the impacted soil.

Probiotic compounds such as fulvic and humic acids are capable of buffering salts and other reactive metals in the soil that inhibit growth. The buffering actions are predicated on the relationships between the soil particles and the organic compounds. In order to "tie-up" the salts and other metals, a complex organic molecule is required. This organic molecule will bind with the soil particle, but can only do so if there is a metal present between it and the soil fragment surface. Cation exchange capacity is increased in the soil with the addition of the organic complexes, enabling the increased release of valuable nutrients for vegetative and microbial use. The nutrients released from the soil and/or organic materials may be exchanged for harmful salts and/or metals. The salts appear to remain inert or are buffered, and eventually may leach out of the soil. The salts may also be involved in other less harmful chemical processes that occur naturally in the soil. With the salts buffered in the affected oil spill areas, vegetation and microbial forms can function normally. However, other environmental factors (i.e. moisture, temperature, oxygen, etc.) must also be sufficiently present for effective remediation.

Our approach to remediating and restoring contaminated soils to a healthy productive condition is to begin rebuilding the biological health of the soil. This can be accomplished through the application of products rich in beneficial microorganisms, bio-stimulants, organic acids, biologically produced enzymes and chelating agents. By restoring the population and proper ratio of beneficial micro and macro-organisms, even the most contaminated soil can be revitalized to a healthy, productive environment; one suitable even for farming crops.

Chemically induced changes to soil through the use of lime and salt-based fertilizers are only temporary changes. Changes in soil chemistry and fertility resulting from the biological activity within the soil are longer lasting and generally require a disruption in environmental conditions to cause a significant change once established.

Salts and Chlorides Remediation

The remediation of salts and chlorides is not a process of consumption but rather a process of binding, buffering, immobilization, detoxification, filtering, or conversion into a non-toxic soil mineral. This is accomplished in a variety of both cationic and anionic processes and reactions. The following information will provide some additional information that will assist in how some of these processes occur and a foundation on what these potential contaminants do in soil. Impact of Salt/Chloride on Soil There are three major impacts on soil and plants when salt water spills occur.

- Soil particles are dispersed which destroys aggregation
- Osmotic potential reduces the plants ability to up take water
- Ionic balance of the soil solution is impacted reducing nutrient absorption
- 1. Impact of sodium on soil and plants.
 - a. The Na+ ion of sodium chloride causes the dispersion of the soil. Due to the large number of Na+ ions available, the Na+ ions are able to exchange with a sufficient number of the Ca++ and Mg++ ions. The Na+ ion is a large ion therefore weakening the normal soil aggregate stability. The major impact of a salt water spill is the destruction of the soil aggregates by dispersion. Dispersion will occur when more than 15% of the cation exchange capacity sites on clays are occupied by sodium ions and when the total EC in the soil solution is low. The potential dispersion of a soil can be determined by the exchangeable sodium percentage (ESP). Soil dispersion results in:
 - b. Loss of soil structure Loss of pore structure Reduced air and water movement
 Reduced bioactivity Reduced nutrient transfer Increased water run-off and erosion of soil due to the major impact of the Na+ ion in the soil root zone, the remediation process is focused on restoring the soil aggregation. When the soil aggregation is restored the secondary impact due to osmotic pressure will also be reduced. In the remediation process it is very important to treat the soil as soon as possible. Rain on the spill site before gypsum is added will increase the rate of soil dispersion. As the salt (NaCl) concentration in the water solution increases, the change in osmotic potential makes the roots work harder to take in water. The amount of water intake by a plant will directly affect plant growth. As rain fall events occur salt in the water solution will be diluted. In most cases the first year rain fall (12-14 inches of rain) will significantly reduce the salt concentration in the soil solution.
- 2. Impact of chloride on soil and plants Depending on the chloride concentration in the spill event, direct chloride toxicity can occur at high levels of Cl- ions. Sensitivity to the Cl- ion will depend on the plant species. The Cl- ion in the soil water solution is usually flushed below the root zone by the first year of rain fall. The Cl- ion, due to its negative charge, moves rapidly out of the root zone through the negatively charged soil aggregates. Chloride concentration does not have a direct impact on soil structure except for being one of the ions which increases the osmotic potential in the soil solution. The term "chloride" does not refer to any specific compound but is a category of substances that are either present in the soil or groundwater or are added to drilling muds or hydro-fracturing fluids to facilitate development of a gas/oil well. The most common chlorides of interest include sodium chloride, magnesium chloride, ammonium chloride, potassium chloride, and barium chloride. Therefore, the remediation of "Chlorides" may encompass a variety

of compounds that can respond differently to treatments due to a variety of variables and conditions. It is also known that within any remediation of salts and chlorides that a variety of charges and reactions are required since Cations migrate to negative charges and anions migrate to positive charges. Therefore, multiple charges of treatment products will be required to react appropriately with the different charges of the various components in the soil and water.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:	
BXP Operating, LLC	329487	
P.O. Box 7227	Action Number:	
Dallas, TX 75209	30960	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD denies BXP request for an 60 day extension on closure. Closure date is set 11/12/2021.	8/10/2021
chensley	The OCD request that composite confirmation sample collection be no greater than 500 square feet.	8/10/2021
-	When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to groundwater within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.	8/10/2021

CONDITIONS

Action 30960