

August 18, 2023

Brittany Hall Projects Environmental Specialist Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Re: REVISED Release Characterization and Remediation Work Plan ConocoPhillips Heritage Concho Lychee BWS State Com #001H Release Unit Letter O, Section 22, Township 21 South, Range 34 East Lea County, New Mexico Incident ID nOY1815234060

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess a historical release that occurred from the Lychee BWS State Com #001H Release (API # 30-025-42445). The approximate release site coordinates are 32.457433°, -103.456074°, located in the Public Land Survey System (PLSS) Unit Letter O, Section 22, Township 21 South, Range 34 East, Lea County, New Mexico (Site). The Site location is shown on Figures 1 and 2. The site is located on state lands managed by the New Mexico State Land Office (NMSLO).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on May 26, 2018. The release occurred due to a water dump valve eroding allowing fluid to form a hole in the liner. Approximately 200 barrels (bbls) of produced water and 20 bbls of oil were released, of which 105 bbls of produced water and 15 bbls of oil were recovered. The NMOCD received the initial C-141 on June 1, 2018, and subsequently assigned the release the Remediation Permit (RP) 1RP-5077 and the Incident ID nOY1815234060.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the NMOSE reporting system, there are no water wells within $\frac{1}{2}$ mile (800 meters) of the Site. There are two (2) wells within 1.05 miles (1,695 meters) of the Site with an average depth to groundwater of 140 feet below ground surface (bgs). There is one (1) USGS groundwater monitoring well located within 0.6 miles of the Site with a depth to groundwater of 774.99 feet bgs.

Due to the limit of groundwater monitoring wells within 800 meters of the site, a licensed well drilling subcontractor was onsite on July 19, 2023, to drill a groundwater determination borehole (DTW-1) to 55 feet bgs at the southeastern edge of the Lychee BWS State Com #001H lease pad, located approximately

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315 feet east of the approximate release point. The borehole location is indicated on Figure 5. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, and the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

INITIAL ASSESSMENT AND BBC WORK PLAN

Based on information provided by ConocoPhillips, BBC International Incorporated (BBC) was initially contracted to mobilize to the release Site, map the extent and sample the release footprint and the surrounding vicinity. Based on the initial extent provided by BBC, the release area footprint was mapped as approximately 4,800 square feet of lease pad and pastureland.

On July 6 and 9, 2018, BBC installed eight (8) borings (SP-1 through SP-8) within the release footprint to a maximum depth of 3 ft bgs. Eight borings were completed (North, East, South, West, North 2, East 2, South 2, West 2) in the cardinal directions to establish horizontal delineation. Additionally, BBC installed three (3) borings (SP1 through SP3) within the lined area to a depth of 2 feet bgs on December 5, 2018. Boring locations from the July and December 2018 sampling event are shown on Figure 3.

A total of forty-nine (49) samples were collected from the sample locations and transferred under chain of custody by Cardinal Laboratories (Cardinal). All soil samples were analyzed for chloride via Method SM4500CI-B. Selected samples were analyzed for TPH via Method 8015 Modified and BTEX via Method 8021B.

Based on the results of the July and December 2018 sampling events, BBC prepared a Delineation Work Plan. This work plan proposed to remediate areas in the pastureland to the west to a depth of 1.5 feet bgs and the lease pad area to the east to a depth of 2.5 feet bgs. Sidewall and bottom confirmation samples

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were proposed to be collected at no greater than 50-foot intervals within the excavated areas. The estimated volume of material proposed to be remediated was approximately 80 cubic yards. As part of the work plan, BBC requested that the area inside the lined facility be deferred until decommissioning of the facility. Photographic documentation was not provided in the Delineation Workplan.

The Delineation Workplan completed by BBC was submitted to NMOCD through CentreStack by COG in 2018. Via the Internal Manual Incident File Supporting Documentation (ENV) (IM-BNF) review by NMOCD, the Delineation Workplan was approved by Brittany Hall via email on Monday November 28, 2022, with the following comments:

- Remediation plan approved with the condition that the remediation meets 19.15.29.12 and 19.15.29.13 NMAC.
- Lined facility area deferral request is denied. Delineation, both vertically and horizontally, in this area is incomplete. Delineation vertically and horizontally must be completed to the most stringent standards of Table I in 19.15.29.12 NMAC.
- 1RP-5077 closed. Refer to incident #nOY1815234060 in all future communications.
- Submit a complete closure and deferral report through the OCD Permitting website by 3/3/2023.

A 90-day extension request to June 3, 2023, was approved in an email dated March 22, 2023. Figure 3 shows the initial release extent and the 2018 soil boring locations as depicted in the BBC Workplan.

A copy of the BBC Delineation Work Plan along with the associated laboratory analytical data is included in Appendix C. Regulatory correspondence is also included in Appendix C.

ADDITIONAL ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

Based on the lapse of time, Tetra Tech was contracted by COP to conduct additional assessment activities at the site prior to the NMOCD approval. In September 2022, Tetra Tech personnel conducted a site visit on behalf of ConocoPhillips. No obvious signs of staining nor residual impact on the lease pad and the adjacent pastureland were observed. Photographic documentation of the visual Site inspection is included in Appendix D.

In October 2022, Tetra Tech personnel returned to the Site to conduct a soil sampling event to determine if the site remained impacted at concentrations noted by BBC. Twenty-five (25) borings (AH-22-1 through AH-22-25) were installed using a hand auger within and around the release extent to depths ranging from 1 to 3 feet bgs to confirm vertical and horizontal delineation, as depicted in Figure 4. No sampling was conducted in the interior of the lined containment as it would destroy the liner integrity. Thus, no discrete samples were collected.

A total of twenty-eight (28) samples were collected from the twenty-five (25) borings and submitted to Cardinal Laboratories to be analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Results from the October 2022 soil sampling event are summarized in Table 2. The analytical results associated with interior boring locations AH-22-14, AH-22-15, AH-22-16 and AH-22-19 exceeded the reclamation requirement for TPH (100 mg/kg) in surface soils (0-4 feet bgs) outside of active oil and gas operations. In addition, AH-22-19 exceeded the reclamation requirements for chloride (600 mg/kg). All other analytical results from the October 2022 sampling event were below Site RRALs and reclamation requirements in surface soils outside of active oil and gas operations.

Results of the additional assessment indicated that the release footprint provided by BBC no longer appears to reflect current site conditions. This discrepancy, given the age of the release, may be due to rain, sheet flow and/or natural attenuation which has condensed the release footprint over time. The release extent observed by Tetra Tech is presented in Figures 4 and 5.

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REMEDIATION WORK PLAN

Based on the analytical results from the additional assessment, impacted material within the release extent is proposed to be removed as indicated in Figure 6. Impacted soils will be excavated to a maximum depth of 1 and 3 feet below ground surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs and/or reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations. Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be dug by hand to the maximum extent practicable. Prior to inception of remedial activities, a request for approval of this Remediation Work Plan will be sent via email to the New Mexico State Land Office (NMSLO).

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. The estimated volume of material to be remediated is approximately 140 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. Approximately four (4) confirmation floor samples and four (4) confirmation sidewall samples are proposed for verification of remedial activities in the proposed excavation area. The proposed excavation encompasses an area of approximately 2,382 square feet. These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be sent to an accredited laboratory for analysis of TPH, BTEX, and chloride. Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas in the adjacent pasture will be seeded in the first favorable growing season following backfilling, to aid in revegetation. Based on the soils of the site, the NMSLO Loamy Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equip with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details in corresponding pounds per live seed per acre are included in Appendix F.

DEFERRAL REQUEST

The NMOCD approval comments stated that the deferral request was denied based on incomplete vertical and horizontal delineation. However, due to maintaining the integrity of the liner and based on the proximity to oil and gas production equipment, COP respectfully requests that further remediation of soils within the lined area of the facility with TPH concentrations greater than the Site RRAL of 100 mg/kg be deferred until facility deconstruction. Any additional excavation and remediation efforts currently pose safety risks associated with excavating in close proximity to production equipment, the containment wall, and associated liner via aggressive excavation methods (i.e., backhoe/trackhoe, excavators, hydraulic hammer, etc.). A depth to groundwater boring was drilled and verified that groundwater is not present at 50 feet bgs or less and the remaining contamination does not pose a threat to freshwater, human health, or the environment.

REVISED Release Characterization and Remediation Work Plan August 18, 2023

CONCLUSION

Based on the current assessment activities, this Revised Release Characterization and Remediation Work Plan encompasses the most up to date site conditions and will precede the BBC Delineation Workplan. Remediation activities at the Site are proposed to begin within 90 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. The area shall be reclaimed in accordance with 19.15.29.13 NMAC and as the Site is no longer being used for oil and gas operations. The completed C-141 forms are enclosed in Appendix A.

If you have any questions concerning the additional soil assessment or the proposed remediation activities for the Site, please call Ryan at (832) 251-5161.

Sincerely, **Tetra Tech, Inc.**

Lisbeth Chavira Staff Geoscientist

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Ryan F. Carroll Senior Project Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips **ConocoPhillips**

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Inferred Release Extent

Figure 4 – Additional Site Assessment (Tetra Tech)

Figure 5 – Additional Site Assessment and DTW Location

Figure 6 – Proposed Remediation

Tables:

Table 1 – Summary of Analytical Results – 2018 Soil Assessment

Table 2 - Summary of Analytical Results - 2022 Soil Assessment

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Delineation Workplan (BBC International Incorporated, 2018) and Regulatory

Correspondence

Appendix D – Photographic Documentation

Appendix E – Laboratory Analytical Data

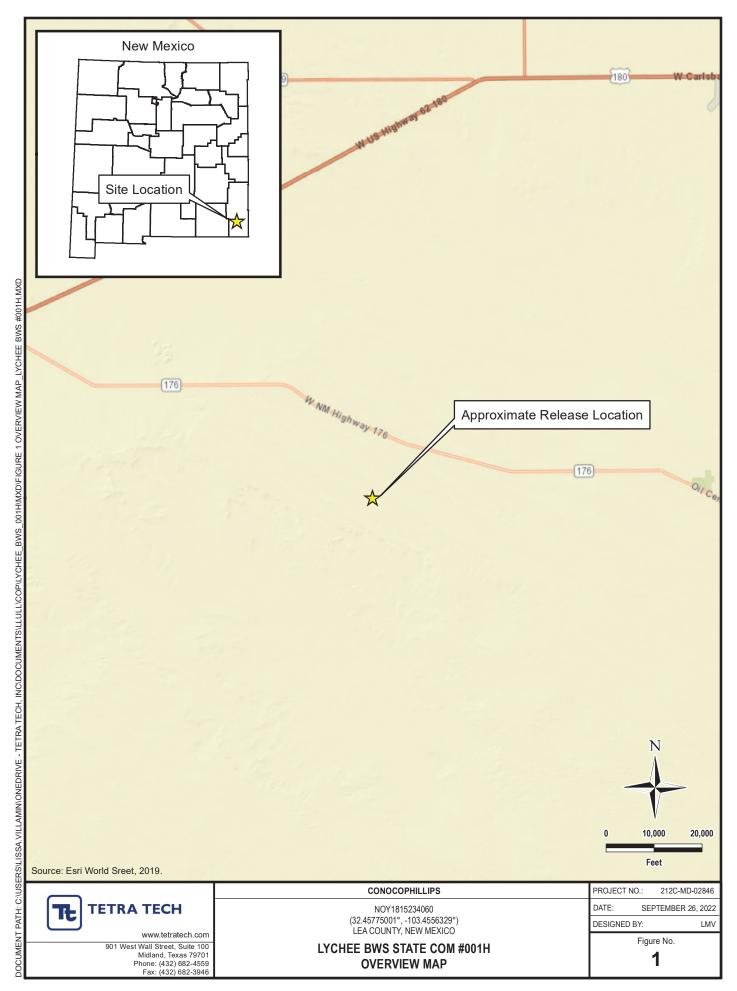
Appendix F - Seed Mixture Details

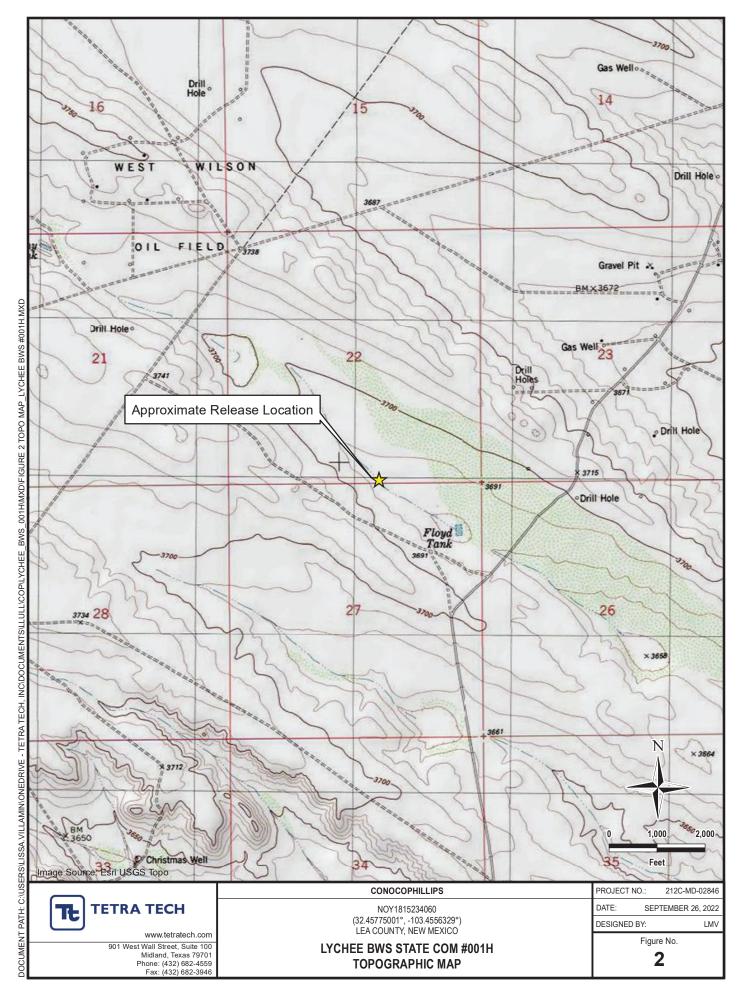
ConocoPhillips

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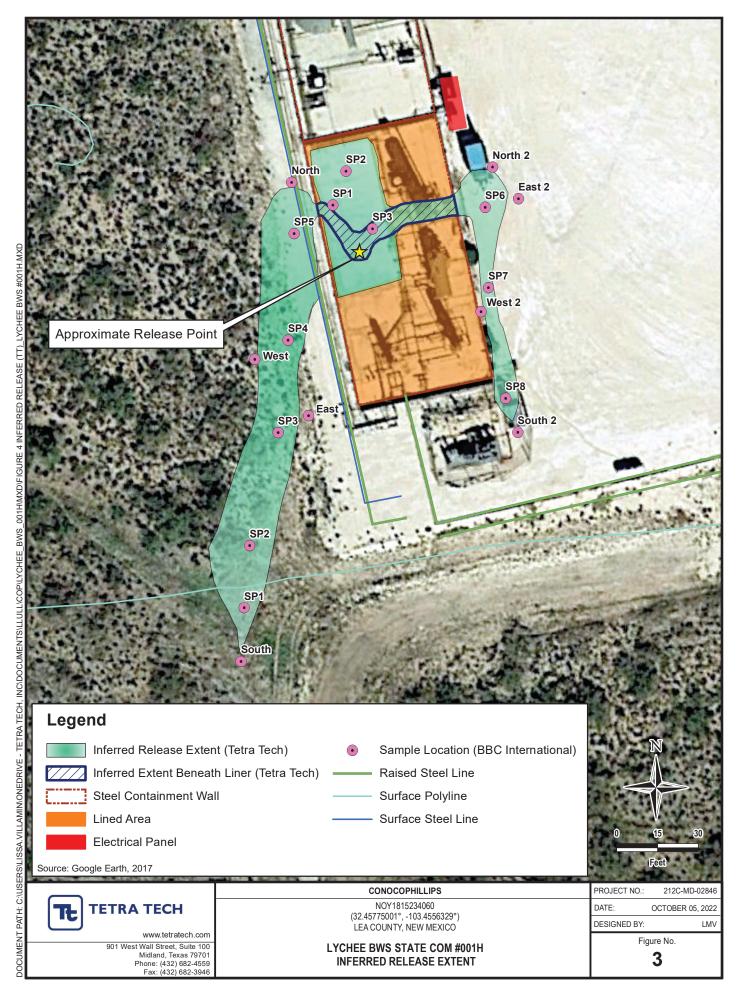
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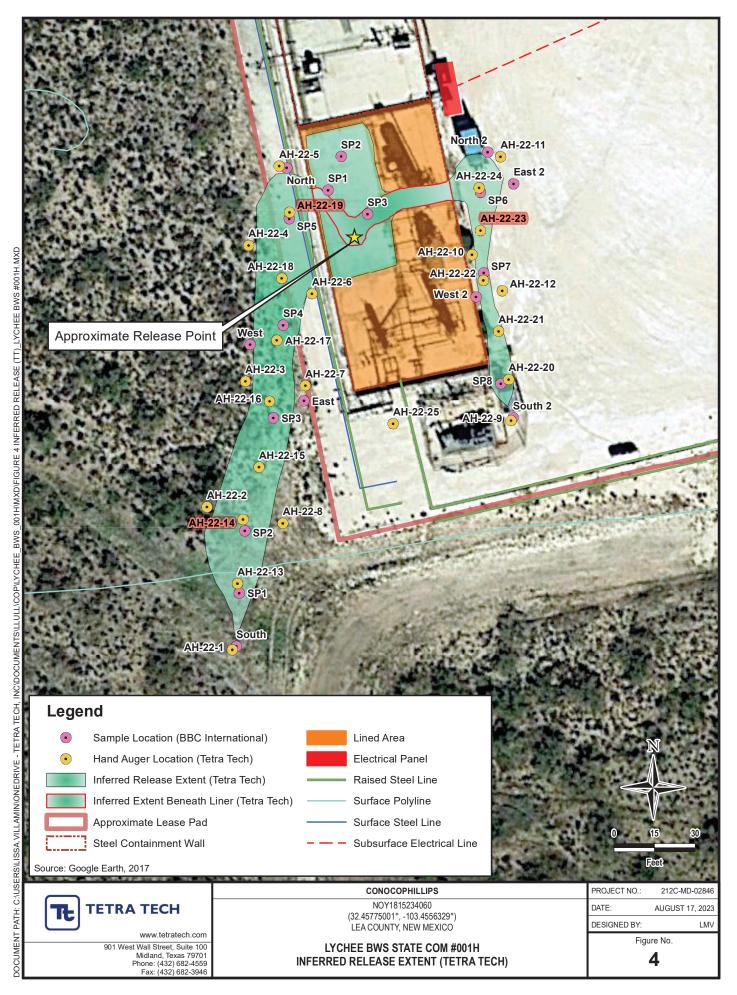
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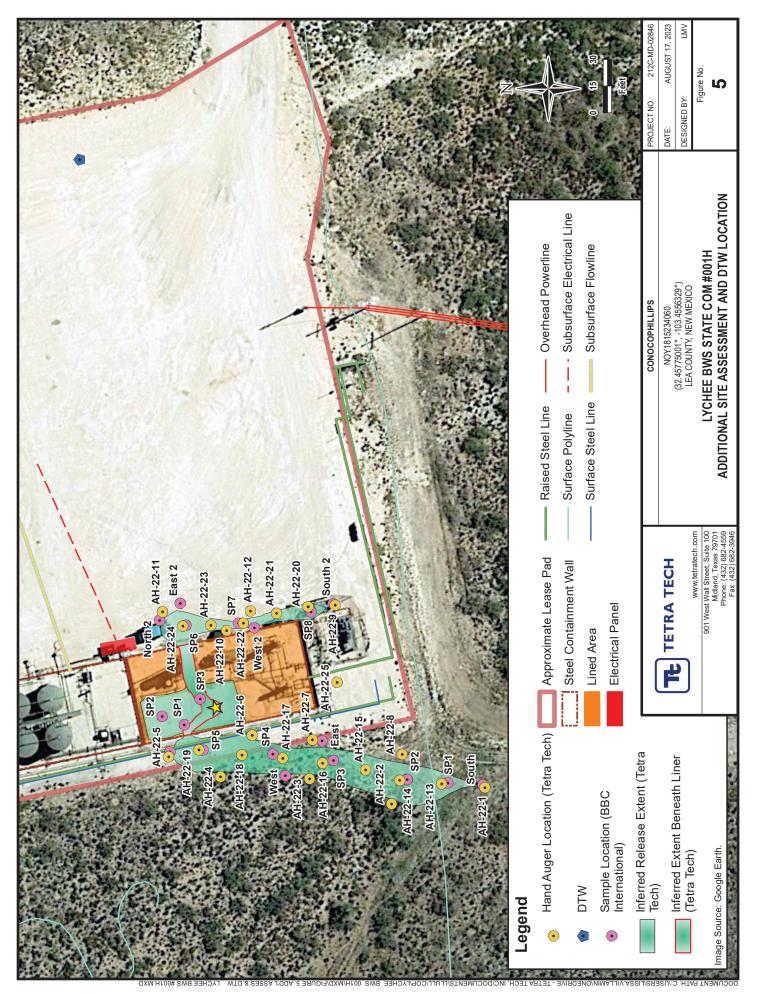


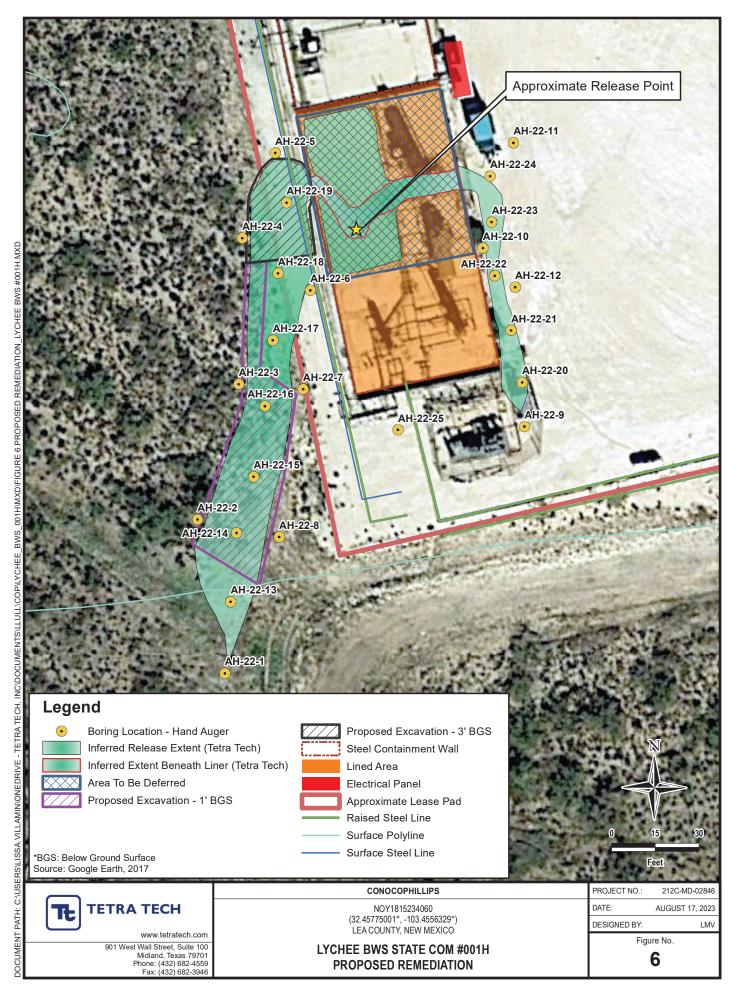


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TABLES

									BTEX ²									TPH ³			
-		Sample Depth	Chloride ¹	Je ¹						┝				GRO		DRO	0	EXT DRO	ő	ТРН	Total TPH
sample ID	sample Date				benzene	e	loluene	41	Etnylbenzene		i otal Xylenes	0	I OTAI BIEX	C ₆ - C ₁₀	C10	> C ₁₀ - C ₂₈	- C ₂₈	> C ₂₈ - C ₃₆	C ₃₆	(GRO + DRO)	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Ø	mg/kg	ď	mg/kg	σ	mg/kg 0	Q mg/kg	kg Q	mg/kg	g Q	mg/kg	ď	mg/kg	σ	mg/kg	Ø	mg/kg	mg/kg
		SURFACE	2,200		< 0.100		0.998		1.32	4.34	4	6.66		187		35,000		7,650		35,187	42,837
102	0100/3/2	1	96.0		< 0.050		< 0.050		0.175	0.350	0	0.526	9	36.9		1,470		238		1,507	1,745
T=JC	0107/0//	2	32.0		< 0.050		< 0.050		< 0.050	< 0.150	50	< 0.300	0(< 10.0		< 10.0		< 10.0			,
		3	176		NA		NA		NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	3,200		< 0.100	L	0.773	╞	0.992	3.73	~ ~	5.49	_	148		41,100		066'8		41,248	50,090
ć	1/1/2010	1	128		< 0.050		0.083		0.362	0.769	6	1.21		96.2		3,210		503		3,306	3,809
7-40	8TU2/8//	2	32.0		< 0.050		< 0.050		< 0.050	< 0.150	50	< 0.300	00	< 10.0		30.4		< 10.0		30.4	30.4
		3	160		NA		NA		NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	1,920		< 0.050		0.378		0.654	2.49	6	3.52	_	108		34,200		8510	QM-07, QR- 03	34,308	42,818
6 4 3	0100/3/2	1	112		< 0.050		< 0.050		0.246	0.62	2	0.866	9	36.3		2,330		387		2,366	2,753
0-10	0102/0//	2	160		< 0.050		< 0.050		< 0.050	< 0.150	50	< 0.300	00	< 10.0		20.1		< 10.0		20.1	20.1
		3	176		NA		NA	\square	NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	2,200		< 0.100	Ľ	0.646	F	0.926	3.55	2	5.12	_	141		42,000		9,440		42,141	51,581
CD-4	0100/9/2	1	96.0		< 0.050		< 0.050		0.254	0.546	9	0.818	8	61.6		2,400		389		2,462	2,851
1	0707/n//	2	32.0		< 0.050		< 0.050		< 0.050	< 0.150	50	< 0.300	00	< 10.0		29.3		< 10.0		29.3	29.3
		3	160		NA		NA		NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	1,460		< 0.050	Ľ	0.407	F	0.643	2.68		3.73		129		43,700		9,720		43,829	53,549
CD.E	0100/3/2	1	96.0		< 0.050		< 0.050		0.305	0.647	2	0.953	3	55.4		2,460		390		2,515	2,905
0-10	0TN7/0//	2	16.0		< 0.050		< 0.050		< 0.050	< 0.150	50	< 0.300	00	< 10.0		37.8		11.7		37.8	49.5
	_	3	160		AN		NA	Η	NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	7,600		< 0.100	E	0.988	F	2.12	8.56	2	11.7		202		17,500		3,510		17,702	21,212
5P.62	8100/0/2	1	2,200		< 0.200		0.443		2.08	4.80		7.33		377		4,770		691		5,147	5,838
5		2	1,230		< 0.050		0.061		0.380	1.43	3	1.87	_	64.5		1,260		188		1,325	1,513
		æ	80.0		NA		NA		NA	NA		NA		NA		NA		NA		NA	NA
		SURFACE	13,300		< 0.100	Ľ	1.23	F	1.67	7.29	6	10.2	_	150		18,000		3,580		18,150	21,730
CD_7	8100/0/2	1	2,200		< 0.200		0.638		3.64	12.6	5	16.9	_	433		4,470		653		4,903	5,556
5	0102/01	2	1,250		< 0.050		< 0.050		0.226	0.853		1.08		47.4		1,430		238		1,477	1,715
		m	96.0		NA		NA		NA	NA	_	NA	_	NA		NA		NA		NA	NA
		SURFACE	15,000		< 0.050		0.998	H	1.29	6.12	~	8.41		133		17,900		3,560		18,033	24,593
8-Q2	7/9/2018	1	2,360		< 0.050		0.526		3.21	10.5	10	14.2		488		5,220		740		5,708	6,448
5		2	1,300		< 0.050		0.066		0.325	0.716	9	1.11		60.8		1,490		229		1,551	1,780
		3	96.0		NA		NA		NA	NA	-	NA		NA		NA		NA		NA	NA

TABLE 1 SUMMARY OF ANALYTICAL RESULTS 2018 SOIL ASSESSMENT - 1RP-5077 / NOY1815234060	CONOCOPHILLIPS I YCHEF RWS STATE COM #001H VAI VE REI EASE	LEA COUNTY, NM
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	1	2	4,400		0.122		5.53		7.64		28.2	4	11.5	5	52	3,7	06,	605		4,352	4,957

Feet bgs ÷

Below ground surface

ppm Parts per million

Total Petroleum Hydrocarbons mg/kg Milligrams per kilogram NA Sample not analyzed TPH Total Petroleum Hydrocarb

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

based on acceptable LCS

QUALIFIERS:

Gasoline range organics

Diesel range organics GRO DRO

Method SM4500CI-B

Method 8021B Method 8015M 3 5 1

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Below ground surface bgs

Shaded rows indicate intervals proposed for excavation

mg/kg Milligrams per kilogram TPH Total Petroleum Hydrocarbons GRO Gasoline range organics

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QUALIFIERS: S-06

DRO -

Diesel range organics Method SM4500Cl-B Method 8021B Method 8015M ~ ~

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APPENDIX A C-141 Forms

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Release Notification and Corrective Action

		OPERATOR		Initial Report	Final Report
Name of Company: COG Operating, LLC (OGF	RID #229137)	Contact:	Robert McN	eill	
Address: 600 West Illinois Avenue, Midland, 7	ГХ 79701	Telephone No.	432-683-744.	3	
Facility Name: Lychee BWS State Com #001F	I	Facility Type: Tank H	Battery		
Surface Owner: State	Mineral Owner	: State		API No. 30-025-4	2445

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	22	21S	34E	200	South	1,980	East	Lea

Latitude 32.45775001 Longitude -103.4556329 NAD83

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil & Produced Water	20 bbl. – Oil	15 bbl. – Oil
	200 bbl Produced Water	105 bbl Produced Water
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Valve Erosion	May 26, 2018 6:30am	May 26, 2018 6:30am
Was Immediate Notice Given?	If YES, To Whom?	
Yes No Not Required	Olivia Yu – NMOCD	
	Ryan Mann – SLO	
By Whom? Dakota Neel	Date and Hour May 26, 2018 10:5	8pm
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	
\square Yes \square No	If TES, volume impacting the wat	tercourse.
If a Watercourse was Impacted, Describe Fully.*	RECEIVED By Olivia Yu at 9:2	24 am, Jun 01, 2018
Describe Cause of Problem and Remedial Action Taken.*		
The release was caused by the water dump valve eroding allowing fluid to	form a hole in the liner. The dump va	alve is being replaced and the oil dump is
being inspected for damage.	1	
Describe Area Affected and Cleanup Action Taken.*		
1		
The release was in the lined facility, on location and in the pasture. A vacu spill area sampled to delineate any possible impact from the release and w significant remediation activities.		
I hereby certify that the information given above is true and complete to the	ne best of my knowledge and understa	and that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective act	tions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediate		
or the environment. In addition, NMOCD acceptance of a C-141 report d		
federal, state, or local laws and/or regulations.	1 1	5 1 5
	OIL CONSERV	ATION DIVISION
Signature: Dainn Oreant		(1)
	A	
Printed Name: DeAnn Grant	Approved by Environmental Specialis	st:
	0/1/00/10	ų.
Title: HSE Administrative Assistant	6/1/2018	Expiration Date:
	Approval Date:	
	Approval Date: 07 172010	
E-mail Address: agrant@concho.com	Approval Date:	
E-mail Address: agrant@concho.com	Approval Date:	Attached D
	Approval Date:	
Date: May 29, 2018 Phone: (432) 253-4513	Approval Date:	
	Conditions of Approval: See attached directive.	Attached
Date: May 29, 2018 Phone: (432) 253-4513	Conditions of Approval: See attached directive.	

1RP-5077

Released to Imaging: 9/13/2023 1:36:47 PM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _5/26/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5077_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before 7/1/2018__. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

From:	Dakota Neel
То:	<u>Ryan Mann</u> , <u>Yu, Olivia, EMNRD</u>
Cc:	Sheldon Hitchcock; Rebecca Haskell; Robert McNeill; DeAnn Grant; Billings, Bradford, EMNRD
Subject:	(Notification) LYCHEE BWS STATE COM #001H (30-025-42445) 5-26-18
Date:	Saturday, May 26, 2018 10:57:58 PM

Ms. Yu/Mr. Mann,

COG Operating LLC is reporting a release from the LYCHEE BWS STATE COM #001H (30-025-42445). Release location: Unit O Section 22, Township 21S, Range 34E

The release occurred on May 26th, 2018. Released: Approximately >25 barrels of produced water.

This release occurred within a lined facility and the area is being evaluated and a C-141 will be submitted. If you have any questions please don't hesitate to contact me.

Thanks,

Dakota Neel Concho Resources HSE Coordinator 432-215-2783

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Received by OCD: 8/18/2023 2:46:02 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 23 0J 10	/
Incident ID	NOY1815234060	
District RP	1RP-5077	
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)							
Did this release impact groundwater or surface water?								
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
- \checkmark 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.

•

Page 3

Received by OCD: 8/18/20	023 2:46:02 PM State of New Mex	ino	Page 24 of				
			Incident ID	NOY1815234060			
Page 4	Oil Conservation Div	vision	District RP	1RP-5077			
			Facility ID				
			Application ID				
regulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>lke Tavar</u>	1475	ease notifications and perform of t by the OCD does not relieve th ose a threat to groundwater, sur- erator of responsibility for com- Title: Program Mar	corrective actions for relate operator of liability slace water, human healt pliance with any other for hager, Remediation	eases which may endanger nould their operations have n or the environment. In			
OCD Only							

Received by OCD: 8/18/2023 2:46:02 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	NOY1815234060
District RP	1RP-5077
Facility ID	
Application ID	

Remediation Plan

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

[\checkmark
[\checkmark
[\checkmark
[\checkmark

Page 5

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

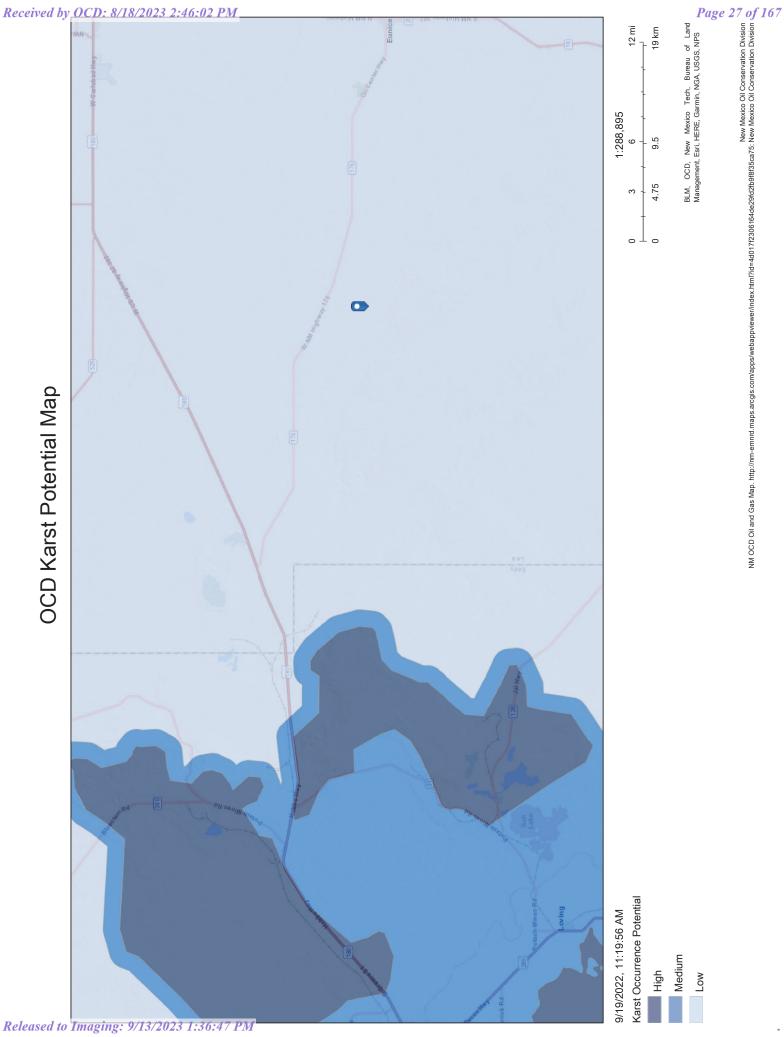
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	nfirmed 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.							
\checkmark Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.						
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of						
Printed Name: Ike Tavarez	Title: Program Manager, Remediation						
Signature:	Date: 8/18/23						
email: ike.tavarez@conocophillips.com	Telephone: <u>432-685-2573</u>						
OCD Only							
Received by:	Date:						
Approved X Approved with Attached Conditions of	Approval 🗌 Denied 🔀 Deferral Denied						
Signature: Hall	Date: 09/13/2023						

APPENDIX B Site Characterization Data







Received by OCD: 8/18/2023 2:46:02 PM

Page 29 of 167	
Page	

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

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	•						2=NE 3 st to lar	3=SW 4 gest)) AD83 UTM in me	ters)	(In feet)	
POD Number	POD Sub- Code basin Co	ounty	Q 64	_	_	Sec	Tws	Rng		х	Y	Distance	-	-	Water Column
CP 01066 POD1	CP	LE	4	3	2	28	21S	34E	6437	'35	3591345 🌍	1614	210	140	70
CP 01069 POD1	СР	LE	2	1	4	28	21S	34E	6437	37	3591191 🌍	1698	210	140	70
											Averaç	ge Depth to	Water:	140	feet
												Minimum	Depth:	140	feet
												Maximum	Depth:	140	feet
Record Count: 2															
UTMNAD92 Dedius		,													

UTMNAD83 Radius Search (in meters):

Easting (X): 645110.91

Northing (Y): 3592189.94

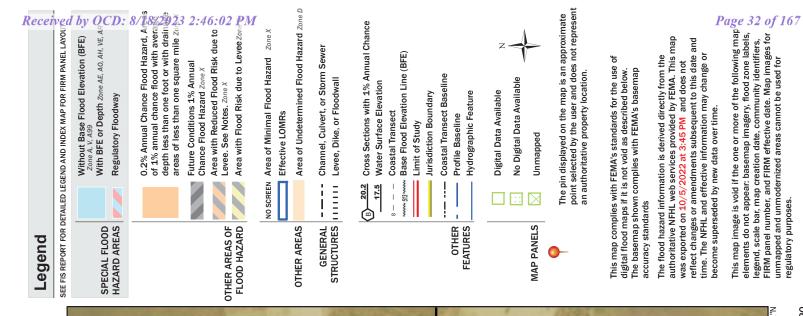
Radius: 1700

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











APPENDIX C Laboratory Analytical Data



November 02, 2022

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: LYCHEE BWS STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 14:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 1 (0-1') (H225049-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 2 (0-1') (H225049-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					
Surrogate: 1-Chlorooctane	83.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.4	% 46.3-17	8						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 3 (0-1') (H225049-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	58.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	16.5	10.0	11/01/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	% 46.3-17	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 4 (0-1') (H225049-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	12.7	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	96.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 5 (0-1') (H225049-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	104 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 6 (0-1') (H225049-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	86.9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.2	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 7 (0-1') (H225049-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88. <i>3</i>	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	96.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 8 (0-1') (H225049-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	69.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	74.7	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 9 (0-1') (H225049-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	77.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 10 (0-1') (H225049-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	26.9	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	65.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	92.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 11 (0-1') (H225049-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	90.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	% 46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 12 (0-1') (H225049-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	98.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106 9	% 46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 13 (0-1') (H225049-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	96.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 13 (2-3') (H225049-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	83.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.1	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 14 (0-1') (H225049-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	66.9	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	33.3	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	92.4	45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 15 (0-1') (H225049-16)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	1890	50.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	563	50.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	94.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	175 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 16 (0-1') (H225049-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	209	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	85.5	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	83.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 17 (0-1') (H225049-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 18 (0-1') (H225049-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	94.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 19 (0-1') (H225049-20)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	14100	50.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	3710	50.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	107 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	664 9	46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 19 (2-2.5') (H225049-21)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	974	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	216	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	96.8	45.3-16	1						
Surrogate: 1-Chlorooctadecane	129 9	46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 20 (0-1') (H225049-22)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 21 (0-1') (H225049-23)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105 9	% 46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 22 (0-1') (H225049-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	188	94.1	200	0.525	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	183	91.3	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	98.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 23 (0-1') (H225049-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 24 (0-1') (H225049-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.3	% 46.3-17	8						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 24 (2-3') (H225049-27)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111 9	46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/02/2022	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02846	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 22 - 25 (0-1') (H225049-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					
Surrogate: 1-Chlorooctane	87.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.					
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.					
ND	Analyte NOT DETECTED at or above the reporting limit					
RPD	Relative Percent Difference					
**	Samples not received at proper temperature of 6°C or below.					
***	Insufficient time to reach temperature.					
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C					
	Samples reported on an as received basis (wet) unless otherwise noted on report					

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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City: Project Manager: Company Name: Phone #: Project Location: Project Name: Project #: 2/2/-MD-02846 Sampler Name: Address: 570522H Relinquished By: service. In no event shall Cardinal be liable for incidental or cons analyses. All cla Relinquished By: FOR LAB USE ONLY LEASE NOTE: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. N cu 5 C a 8 6 101 East Marianu, nouve, in chee AA-H-22-1 (575) 393-2326 FAX (575) 393-2476 4-22-4-22enecophilip 00 ۱ -22 -1 -22-LAHAN 22-22 -2-12 22-1 Sample I.D nce and any other cause BW gin 1-0-1-0. 6-12 -0-0-1-0 thul 0-0-1 0-Observed Temp. °C Corrected Temp. Project Owner: Fax #: Boke State: Time, Time: Date Date: eable 22 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 10/26/25 shall be de Con ĉ Zip đ 4.6 (G)RAB OR (C)OMP without Received By: Received By 14 N # CONTAINERS GROUNDWATER P Cool Intact WASTEWATER Sample Condition made in writing and received by Cardinal within 30 days after completion of the applicable MATRIX SOIL OIL SLUDGE City: Company: Tetra P.O. #: Address: Attn: Chrifthan Fax #: Phone #: State: loss of use, or loss of profits incurred OTHER ACID/BASE PRESERV. ICE / COOL CHECKED BY: BILL OTHER (Initials) 50 Zip: 0 DATE 10 enett 126/22 SAMPLING trus LAnth by client, its subsidiaries paid by the client for the All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor -0.5°C Verbal Result: Turnaround Time: REMARKS: TIME Hitten, this offerately long Jen □ Yes B1 Blan Standard Rush hloddes No No ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. 1,600 REQUEST Observed Temp. °C Corrected Temp. °°

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Project Manager: Project #: 212 - MD - 02946 Phone #: City: Address: Project Location: Project Name: Sampler Name: HTS2042 Relinquished By: service. In no event shall Cardinal be liable for incidental or conse Relinquished By FOR LAB USE ONLY Sampler - UPS - Bus - Other: LEASE NOTE: Liability Delivered By: (Circle One) Lab I.D. All claims including those for negl 8 5 Da 4 () N 101 East Marland, Hobbs, NM 88240 heree H-(575) 393-2326 FAX (575) 393-2476 4-22 4-22-13 out of or related to the per 4-22-14 lee -22-12 -22-1 -22-13 onoco Philup -22-٩ -22-19 1th hurl Han 22-11 12-16 Sample I.D. 17 60-1 Bhus and any 6-1 60-1 0-1 6-0-1 5-0 2other cause whats 0-Lund Observed Temp. °C zkertef Corrected Temp. Project Owner: Fax #: State: M Refe Time: Date Date: Time + Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com 012612 shall be dee dy for any Con luding without limitation, busi ô Zip (G)RAB OR (C)OMP Sie Received By: 4.6 Received By: # CONTAINERS HIA 9 walved GROUNDWATER Cool Intact Pres Pres WASTEWATER Sample Condition made in writing and received by Cardinal within 30 days after completion of the applicable made in writing and received by Cardinal within 30 days after completion of the applicable near-informations loss of use, or loss of profits incurred by client, its subsidiaries, MATRIX SOIL OIL SLUDGE City: Attn: P.O. #: loss of use, or loss of profits State: Address: Fax #: Phone #: Company: 7 OTHER ACID/BASE: PRESERV. ICE / COOL CHECKED BY: (Initials) 1 Arthon BILL TO OTHER 9 Zip: CHR 10/26/22 prus 99 DATE SAMPLING paid by the client for the Trech Lunt All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor -0.5°C KEMARKS: Turnaround Time: Verbal Result: TIME len P Ves BTBR Blan Standard Rush Chlande No No ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. 1.60 REQUEST Observed Temp. °C ĉ

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: City: Company Name: Sampler Name: Project #: 2/26-MD-07846 Project Location: Project Name: Phone #: Address: analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or conse HZZSO44 Relinquished By: Relinquished By: PLEASE NOTE: Liability and FOR LAB USE ONLY Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. S OF SI 27 25 25 24 22 N 27 24 101 East Marland, Hobbs, NM 88240 AH In cree Au -22 -24 C M-22-20 AH-22-19 H-22-24 H-22-23 CO-1 (575) 393-2326 FAX (575) 393-2476 4-22-21 H-22-22 CO-1 anny for the -22-25 60-1 2417r ton Sample I.D. to the per Sh olntho) 60-13 6-1: 62-2.5 60-1 Rizkertz 2-3 Observed Temp. °C Unll Corrected Temp. Fax #: Project Owner: State: NYS Aste Time: Date: Time: Date: intal damages, including without limitation, business inter Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com 6/26/2: shall be deemed dy for any HA VOJ ĉ Zip: (G)RAB OR (C)OMP 7 E 0 **Received By:** Received By: è # CONTAINERS 6 ~ walved GROUNDWATER Cool Infact WASTEWATER Sample Condition made in writing and received by Cardinal within 30 days after completion of the applicable MATRIX SOIL OIL SLUDGE P.O. #: State: City: Attn: Fax #: Company: loss of use, or loss of profits incurred by client, its subsidiaries OTHER Phone #: Address: ACID/BASE PRESERV (Initials) ICE / COOL BILL TO to WAR OTHER Totra E. Zip: DATE enall 26/22 SAMPLING 42ch paid by the client for the LAN All Results are emailed. Please provide Email address: REMARKS: Verbal Result: Thermometer ID #113 Correction Factor -0.5°C Turnaround Time: TIME * wattle 1 PH Secu □ Yes 4 STER Standard Rush Storides will of totatechilan NO ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. 1 1.60 REQUEST Observed Temp. °C Corrected Temp. °C

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APPENDIX D Regulatory Correspondence & Delineation Workplan (BBC International Incorporated, 2018)

Carroll, Ryan

From:	Hall, Brittany, EMNRD <brittany.hall@emnrd.nm.gov></brittany.hall@emnrd.nm.gov>
Sent:	Wednesday, March 22, 2023 8:10 AM
To:	Llull, Christian
Cc:	Poole, Nicholas
Subject:	RE: [EXTERNAL] Extension Request - Application ID 1161746 (nOY1815234060)

A CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Christian,

Your extension request for **nOY1815234060** is approved. The new due date is June 3, 2023.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

From: Llull, Christian <Christian.Llull@tetratech.com>
Sent: Tuesday, March 21, 2023 8:27 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Poole, Nicholas <NICHOLAS.POOLE@tetratech.com>
Subject: [EXTERNAL] Extension Request - Application ID 1161746 (nOY1815234060)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 3, 2023) to complete additional assessment activities, remedial action and associated reporting for the Lychee BWS State Com #001H Valve Release site (nOY1815234060).

ConocoPhillips recently received a large volume of NMOCD determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

This release site requires additional evaluation to confirm historical impacts in the approved Work Plan. Given the difficulties inherent with available resource allocation for several projects with similar deadlines within a short period of time, this extension is required to safely complete the additional assessment and/or remediation. ConocoPhillips plans to conduct the additional assessment in the coming months however, and once the sampling data is collected, tabulated, and evaluated, a revised work plan/closure report will be submitted to the OCD.

Please let me know if you have any questions or concerns.

Christian Llull, P.G. | Program Manager

Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetratech.com

Tetra Tech | Leading with Science $^{\texttt{B}}$ | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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Chavira, Lisbeth

From:	OCDOnline@state.nm.us
Sent:	Monday, November 28, 2022 3:31 PM
То:	Beauvais, Charles R
Subject:	[EXTERNAL]The Oil Conservation Division (OCD) has approved the application,
	Application ID: 161746

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has approved the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nOY1815234060, with the following conditions:

- Remediation plan approved with the condition that the remediation meets 19.15.29.12 and 19.15.29.13 NMAC.
- Lined facility area deferral request is denied. Delineation, both vertically and horizontally, in this area is incomplete. Delineation vertically and horizontally must be completed to the most stringent standards of Table I in 19.15.29.12 NMAC.
- 1RP-5077 closed. Refer to incident #nOY1815234060 in all future communications.
- Submit a complete closure and deferral report through the OCD Permitting website by 3/3/2023.

The signed IM-BNF can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Brittany Hall Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Release Notification and Corrective Action

		OPERATOR		Initial Report	Final Report	
Name of Company: COG Operating, LLC (OGR	RID #229137)	Contact:	Robert McNe	eill		
Address: 600 West Illinois Avenue, Midland, T	Telephone No.	432-683-7443	3			
Facility Name: Lychee BWS State Com #001H		Facility Type: Tank E	Battery			
Surface Owner: State	Mineral Owner	: State		API No. 30-025-4	2445	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
0	22	21S	34E	200	South	1,980	East	Lea	

Latitude 32.45775001 Longitude -103.4556329 NAD83

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered			
Oil & Produced Water	20 bbl. – Oil	15 bbl. – Oil			
	200 bbl Produced Water	105 bbl. – Produced Water			
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery			
Valve Erosion	May 26, 2018 6:30am	May 26, 2018 6:30am			
Was Immediate Notice Given?	If YES, To Whom?				
Yes No Not Required	Olivia Yu – NMOCD				
	Rvan Mann – SLO				
By Whom? Dakota Neel	Date and Hour May 26, 2018 10:58pm				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.				
\square Yes \square No	If TES, Volume impacting the Wat	tereourse.			
If a Watercourse was Impacted, Describe Fully.*	RECEIVED By Olivia Yu at 9:2	24 am, Jun 01, 2018			
Describe Cause of Problem and Remedial Action Taken.*					
The release was caused by the water dump valve eroding allowing fluid to	o form a hole in the liner. The dump va	alve is being replaced and the oil dump is			
being inspected for damage.	1				
Describe Area Affected and Cleanup Action Taken.*					
1					
The release was in the lined facility, on location and in the pasture. A vacu spill area sampled to delineate any possible impact from the release and w significant remediation activities.					
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understa	and that pursuant to NMOCD rules and			
regulations all operators are required to report and/or file certain release n					
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report" of	does not relieve the operator of liability			
should their operations have failed to adequately investigate and remediate					
or the environment. In addition, NMOCD acceptance of a C-141 report d					
federal, state, or local laws and/or regulations.					
	OIL CONSERV	VATION DIVISION			
	<u>OIL CONSERV</u>	ATION DIVISION			
Signature: Deann Orank		A1			
Printed Name: DeAnn Grant	Approved by Environmental Specialis	st:			
Timed Name. DeAnn Orant					
Titles USE A designation Aggistant	Ammunal Data 6/1/2018	Evaluation Data:			
Title: HSE Administrative Assistant	Approval Date: 6/1/2018	Expiration Date:			
	Approval Date:	Expiration Date:			
	Approval Date:	Expiration Date:			
E-mail Address: agrant@concho.com	Approval Date:				
E-mail Address: agrant@concho.com Date: May 29, 2018 Phone: (432) 253-4513	Approval Date:				
E-mail Address: agrant@concho.com	Conditions of Approval: See attached directive.				
E-mail Address: agrant@concho.com Date: May 29, 2018 Phone: (432) 253-4513	Conditions of Approval: See attached directive.				

1RP-5077

Released to Imaging: 9/13/2023 1:36:47 PM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _5/26/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5077_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before 7/1/2018__. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

From:	Dakota Neel
То:	<u>Ryan Mann</u> , <u>Yu, Olivia, EMNRD</u>
Cc:	Sheldon Hitchcock; Rebecca Haskell; Robert McNeill; DeAnn Grant; Billings, Bradford, EMNRD
Subject:	(Notification) LYCHEE BWS STATE COM #001H (30-025-42445) 5-26-18
Date:	Saturday, May 26, 2018 10:57:58 PM

Ms. Yu/Mr. Mann,

COG Operating LLC is reporting a release from the LYCHEE BWS STATE COM #001H (30-025-42445). Release location: Unit O Section 22, Township 21S, Range 34E

The release occurred on May 26th, 2018. Released: Approximately >25 barrels of produced water.

This release occurred within a lined facility and the area is being evaluated and a C-141 will be submitted. If you have any questions please don't hesitate to contact me.

Thanks,

Dakota Neel Concho Resources HSE Coordinator 432-215-2783

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PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

COG – LYCHEE BWS STATE COM #001H (Leak Date: 5/26/18) RP # 1RP-5077

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5077.

The following information includes:

- 1. Appropriate completed and signed C-141 pages.
- 2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 3. GPS information for sample points and sample methodology.
- 4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
- 5. Watercourse/features map within 1000 feet.
- 6. BLM Cave Karst map.
- 7. FEMA National Flood map.
- 8. Laboratory analysis results summary table and original laboratory analysis reports.
- 9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD rules, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP5 (PINK shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP6 – SP8 (BLUE shade on diagram) will be excavated to a depth of 2.5 feet. The YELLOW shaded area inside the lined facility is requested to be deferred until the decommissioning of the facility. SP1 – SP3 were sampled through the liner. Further delineation is not possible due to the production equipment and piping preventing access unless the facility is decommissioned. When the release occurred the pressure from the ruptured line punctured the liner causing produced water to remain under the liner and then allowed fluids to escape outside of the lined facility onto the pad and into the pasture.

Sidewall and bottom confirmation samples will be collected at no greater than 50 ft. intervals for the excavated areas. Estimated volume of material to be removed is 80 cubic yards. The remediation will be completed within 90 days of plan approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	1RP-5077
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?	100-125 (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
- 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: 8/18/2	023 2:46:02 PM			Page 77 of
Form C-141 Page 4	State of New Me Oil Conservation D		Incident ID District RP Facility ID Application ID	1RP-5077
regulations all operators a public health or the enviro failed to adequately inves	formation given above is true and comp re required to report and/or file certain re- onment. The acceptance of a C-141 report tigate and remediate contamination that to f a C-141 report does not relieve the o	elease notifications and perform co ort by the OCD does not relieve the pose a threat to groundwater, surfa perator of responsibility for comp	orrective actions for rele e operator of liability sh ace water, human health	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Signature: <u>Rubeur</u> email: <u>rhaskell@</u>	a Haskell	Date: 2/21/19 Telephone: (432)	1	
OCD Only Received by:		Date:		

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Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	1RP-5077
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. ______ Senior HSE Coordinator Printed Name: Rebecca Haskell Signature: Rebleso Haskell Date: 2/21/19 Telephone: (432) 683-7443 email: rhaskell@concho.com **OCD Only** _____ Date: _____ Received by: Approved with Attached Conditions of Approval Denied Deferral Approved Approved Date: Signature:

WORLD-WIDE ENVIRONMENTAL SPECIALISTS



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805

New Mexico State Land Office Revegetation and Noxious Weed Management Plan COG – Lychee BWS State Com #001H

Revegetation Plan

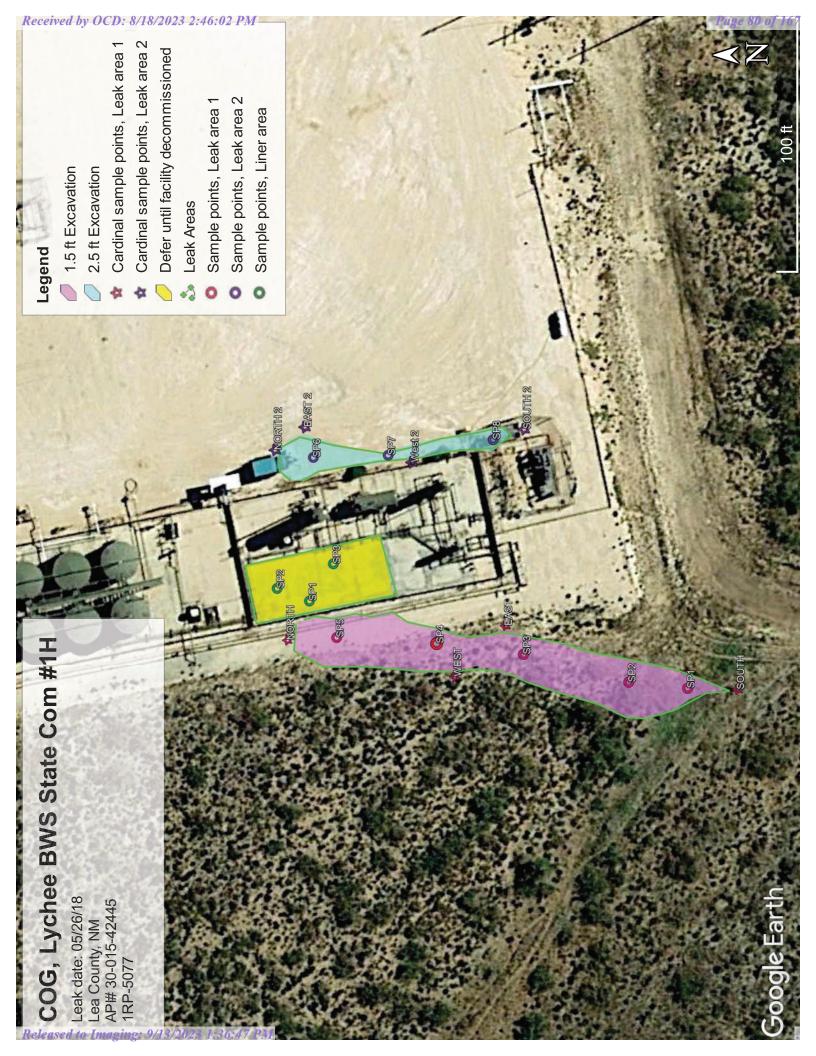
Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

<u>Grasses:</u>			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Anuual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
	Total PLS/acre	17	

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.



COG, Lychee BWS State Com #1H

Sample points, Leak area 1 SP1, N 32.45703 W-103.45624 SP2, N 32.45709 W-103.45623 SP3, N 32.45720 W-103.45620 SP4, N 32.45730 W-103.45619 SP5, N 32.45740 W-103.45618 NORTH, N 32.45746 W-103.45618 SOUTH, N 32.45697 W-103.45624 EAST, N 32.45722 W-103.45616 WEST, N 32.45728 W-103.45623

Sample points, Leak area 2 SP6, N 32.45743 W-103.45595 SP7, N 32.45735 W-103.45595 SP8, N 32.45723 W-103.45593 NORTH 2, N 32.45747 W-103.45594 SOUTH 2, N 32.45720 W-103.45591 EAST 2, N 32.45744 W-103.45591 WEST 2, N 32.45732 W-103.45595

Sample points, Liner area SP1, N 32.45743 W-103.45613 SP2, N 32.45747 W-103.45612 SP3, N 32.45741 W-103.45609

COG, Lychee BWS State Com #001H U/L O, Section 22, T21S, R34E Groundwater: 100'



National Water Information Syste	? Water-level date-time accuracy em: Web Interfa	Water level, feet below land C B urface	Water level, feet above specific vertical datum Data Category:	Referenced vertical datum Geographic Area:	[?] USGS Home Water-tevel ລຽວກະເວງ USGS	?
			Groundwater	New Mexico	✓ G0]

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<u>Full News</u>

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322738103263701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322738103263701 21S.34E.23.31000

Lea County, New Mexico Latitude 32°27'45.6", Longitude 103°26'49.4" NAD83 Land-surface elevation 3,715 feet above NAVD88 The depth of the well is 5,390 feet below land surface. This well is completed in the Capitan Limestone (313CPTN) local aquifer. **Output formats**

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

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1967-02-01		D	1030.70			2		U		
1977-01-12		D	1166.27			2		R	USGS	
1978-01-01		D	1157.64			2		R	USGS	
2012-11-27	13:50 MST	m	804.26			2		т	USGS	
2013-06-24	12:30 MDT	m	798.30			2		т	USGS	
2013-09-09	11:40 MDT	m	795.63			2		Т	USGS	
2013-12-02	11:50 MST	m	794.47			2		т	USGS	
2014-03-17		m	793.54			2		Т	USGS	
2014-06-30		m	788.44			2		т	USGS	
2014-09-29		m	789.06			2		Т	USGS	
2014-12-01		m	787.57			2		т	USGS	
2015-03-26		m	785.16			2		т	USGS	
2015-05-18		m	783.57			2		Т	USGS	
2015-09-28		m	777.91			2		Т	USGS	
2015-12-01		m	776.12			2		Т	USGS	
2016-03-21		m	774.03			2		Т	USGS	
2016-06-26 2016-09-21		m m	775.92 774.99			2		Т	USGS	

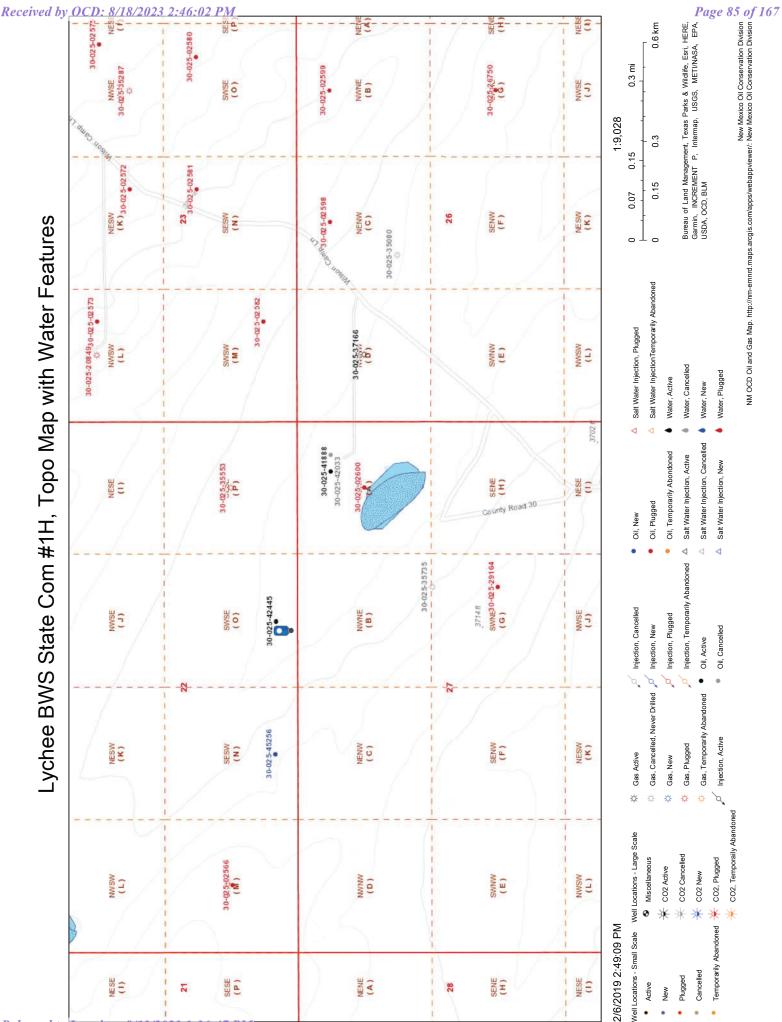
Date Tim	- II-		Water leveExplanation	Water level,	Referenced vertical	?	
Section	Water-leve datestime accuracy		feet stription land	feet above specific	datum	Water-level accuracy	
Water-level date-time accura	acy D	Da	le surfact rate to the Day	vertical datum			
Water-level date-time accura	icy m	Da	t e is accurate to the Min				
Water-level accuracy	2	Wa	ater level accuracy to nea	rest hundredth o	of a foot		
Status		Th	e reported water-level m	easurement repr	esents a static level		
Method of measurement	R	Re	ported, method not know	/n.			
Method of measurement	Т	Ele	ectric-tape measurement.				
Method of measurement	U	Un	known method.				
Measuring agency		No	t determined				
Measuring agency	USG	s U.9	5. Geological Survey				
Source of measurement	S	Me	asured by personnel of r	eporting agency.			
Source of measurement	U	So	urce is unknown.				
Water-level approval status	А	Ap	proved for publication	Processing and r	eview completed.		
Water-level approval status	Р	Pro	ovisional data subject to	revision.			

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

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2019-02-06 16:42:28 EST 1.65 0.6 nadww01 USA.gov



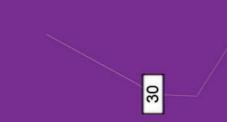
Released to Imaging: 9/13/2023 1:36:

Leak date: 05/26/18 Lea County, NM AP# 30-025-42445 2RP-5077

BLM CAVE KARST MAP

Received by OCD: 8/18/2023 2:46:02 PM

1000 ft



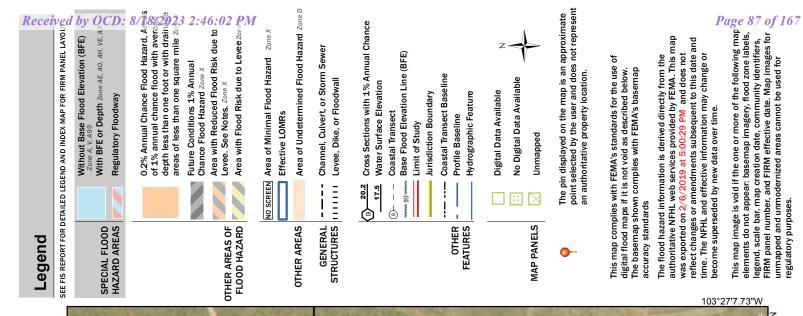
Google Earth

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Laboratory Analytical Results Summary Lychee BWS State Com #001H (5/26/18)

			SP1 @			
		Sample ID SURFACE	SURFACE	SP1 @ 1.	SP1 @ 2'	SP1 @ 3.
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.998	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.32	0.175	<0.050	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		1.34	0.35	<0.150	n/a
Total BTEX	BTEX 8021B		6.66	0.526	<0.300	n/a
Chloride	SM4500CI-B		2200	96	32	176
GRO	TPH 8015M		187	36.9	<10.0	n/a
DRO	TPH 8015M		35000	1470	<10.0	n/a
EXT DRO	TPH 8015M		7650	238	<10.0	n/a
			SP2 @			

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			SP2 @			
		Sample ID	SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.773	0.083	<0.050	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		0.992	0.362	<0.050	n/a
Total Xylenes	BTEX 8021B		3.73	0.769	<0.150	n/a
Total BTEX	BTEX 8021B		5.49	1.21	<0.300	n/a
Chloride	SM4500CI-B		3200	128	32	160
GRO	TPH 8015M		148	96.2	<10.0	n/a
DRO	TPH 8015M		41100	3210	30.4	n/a
EXT DRO	TPH 8015M		0668	503	<10.0	n/a

			SP3 (0)			
		Sample ID SURFACE	SURFACE	SP3@1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.378	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.654	0.246	<0.050	n/a
Total Xylenes	BTEX 8021B		2.49	0.62	<0.150	n/a
Total BTEX	BTEX 8021B		3.52	0.866	<0.300	n/a
Chloride	SM4500CI-B		1920	112	16	176
GRO	TPH 8015M		108	36.3	<10.0	n/a
DRO	TPH 8015M		34200	2330	20.1	n/a
EXT DRO	TPH 8015M		8510	387	<10.0	n/a
			SP4 @			

			SP4 @			
		Sample ID SURFACE	SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.646	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.926	0.254	<0.050	n/a
Total Xylenes	BTEX 8021B		3.55	0.564	<0.150	n/a
Total BTEX	BTEX 8021B		5.12	0.818	<0.300	n/a
Chloride	SM4500CI-B		2200	96	32	160
GRO	TPH 8015M		141	61.6	<10.0	n/a
DRO	TPH 8015M		42000	2400	29.3	n/a
EXT DRO	TPH 8015M		9440	389	<10.0	n/a

			SP5 @			
		Sample ID	Sample ID SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	by/bu
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.407	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.643	0.305	<0.050	n/a
Total Xylenes	BTEX 8021B		2.68	0.647	<0.150	n/a
Total BTEX	BTEX 8021B		3.73	0.953	<0.300	e/u
Chloride	SM4500CI-B		1460	96	16	160
GRO	TPH 8015M		129	55.4	<10.0	u/a
DRO	TPH 8015M		43700	2460	37.8	e/u
EXT DRO	TPH 8015M		9720	390	11.7	n/a

			SP6 @			
		Sample ID	Sample ID SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	2/9/18
			mg/kg	mg/kg	mg/kg	ba/bm
Benzene	BTEX 8021B		<0.100	<0.200	<0.050	n/a
Toluene	BTEX 8021B		0.988	0.443	0.061	n/a
Ethylbenzene	BTEX 8021B		2.12	2.08	0.38	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		8.56	4.8	1.43	n/a
Total BTEX	BTEX 8021B		11.7	7.33	1.87	n/a
Chloride	SM4500CI-B		7600	2200	1230	08
GRO	TPH 8015M		202	377	64.5	n/a
DRO	TPH 8015M		17500	4770	1260	n/a
EXT DRO	TPH 8015M		3510	691	188	n/a

)			
		Sample ID SURFACE	SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.200	<0.050	n/a
Toluene	BTEX 8021B		1.23	0.638	<0.050	n/a
Ethylbenzene E	BTEX 8021B		1.67	3.64	0.226	n/a
Total Xylenes E	BTEX 8021B		7.29	12.6	0.853	n/a
Total BTEX E	BTEX 8021B		10.2	16.9	1.08	n/a
Chloride	SM4500CI-B		13300	2200	1250	96
GRO	TPH 8015M		150	433	47.4	n/a
DRO	TPH 8015M		18000	4470	1430	n/a
EXT DRO	TPH 8015M		3580	653	238	n/a

		Sample ID	Sample ID SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.998	0.526	0.066	n/a
Ethylbenzene	BTEX 8021B		1.29	3.21	0.325	n/a
Total Xylenes	BTEX 8021B		6.12	10.5	0.716	n/a
Total BTEX	BTEX 8021B		8.41	14.2	1.11	n/a
Chloride	SM4500CI-B		15000	2360	1300	96
GRO	TPH 8015M		133	488	60.8	n/a
DRO	TPH 8015M		17900	5220	1490	n/a
EXT DRO	TPH 8015M		3560	740	229	n/a

CARDINAL		Sample ID	NORTH	EAST	WEST	SOUTH
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0:050	<0:050	<0.050
Toluene	BTEX 8021B		<0.050	<0:050	<0:050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		160	128	128	176
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

			SP1 @		
LINER SAMPLING	ING	Sample ID	SURFACE	SP1@1'	SP1 @ 2'
Analyte	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.237	<0.050	<0.050
Toluene	BTEX 8021B		5.36	0.115	0.176
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		16.6	0.666	0.958
Total BTEX	BTEX 8021B		22.2	0.78	1.13
Chloride	SM4500CI-B		1040	3000	912
GRO	TPH 8015M		462	22.4	31.1
DRO	TPH 8015M		3540	379	814
EXT DRO	TPH 8015M		619	92.7	166

			SP2 @		
LINER SAMPLING	ING	Sample ID	SURFACE	SP2 @ 1'	SP2
Analyte	Method	Date	12/5/18	12/5/18	12/5
			mg/kg	mg/kg	Вш
Benzene	BTEX 8021B		<0.500	2.91	<0.0
Toluene	BTEX 8021B		15.7	60.8	1.1
Ethylbenzene	BTEX 8021B		12.8	45.7	1.6
Total Xylenes	BTEX 8021B		59.2	121	6.5
Total BTEX	BTEX 8021B		87.7	230	6
Chloride	SM4500CI-B		3200	3600	27:
GRO	TPH 8015M		977	1380	15
DRO	TPH 8015M		6010	5730	173
EXT DRO	TPH 8015M		957	866	33
			SD2 @		

LINER SAMPLING Analyte M Benzene BTE Toluene BTE Ethylbenzene BTE			SP2 @	1 @ 000	10 0 000
		admpie ID	SURFACE		2 0 242
	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
	BTEX 8021B		<0.500	2.91	<0.050
	BTEX 8021B		15.7	60.8	1.12
	BTEX 8021B		12.8	45.7	1.66
	BTEX 8021B		59.2	121	6.57
Total BTEX BTE	BTEX 8021B		87.7	230	9.36
Chloride SM4	SM4500CI-B		3200	3600	2720
GRO TPH	TPH 8015M		977	1380	153
DRO TPH	TPH 8015M		6010	5730	1780
EXT DRO TPH	TPH 8015M		957	998	331
			SP3 @		
LINER SAMPLING		Sample ID	SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte M	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
Benzene BTE	BTEX 8021B		3.04	0.672	0.122
Toluene BTE	BTEX 8021B		28.2	23.7	5.53
Ethylbenzene BTE	BTEX 8021B		12.2	21.3	7.64
Total Xylenes BTE	BTEX 8021B		57.4	88.3	28.2
Total BTEX BTE	BTEX 8021B		101	134	41.5
Chloride SM4	SM4500CI-B		5040	3480	4400
GRO TPH	TPH 8015M		1670	1240	562
DRO TPH	TPH 8015M		11800	5510	3790
EXT DRO TPH	TPH 8015M		2020	820	605

CARDINAL		Sample ID	NORTH 2	EAST 2	WEST 2	SOUTH 2
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		80	80	96	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



July 20, 2018

Cliff Brunson BBC International, Inc.

-----,

P.O. Box 805

Hobbs, NM 88241

RE: LYCHEE BWS STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 07/13/18 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ SURFACE (H801916-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.998	0.100	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	1.32	0.100	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	4.34	0.300	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	6.66	0.600	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	187	100	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	35000	100	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	7650	100	07/16/2018	ND					
Surrogate: 1-Chlorooctane	122	% 41-142	2						
Surrogate: 1-Chlorooctadecane	2100	% 37.6-14	7						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 1' (H801916-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.175	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	0.350	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	0.526	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.9	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	1470	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	238	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	2						
Surrogate: 1-Chlorooctadecane	155	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 2' (H801916-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	<0.150	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	<0.300	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.4	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 3' (H801916-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/17/2018	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ SURFACE (H801916-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.773	0.100	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.992	0.100	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	3.73	0.300	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	5.49	0.600	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	148	100	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	41100	100	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	8990	100	07/16/2018	ND					
Surrogate: 1-Chlorooctane	111 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	2330	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 1' (H801916-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.083	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.362	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	0.769	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	1.21	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	148	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.2	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	3210	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	503	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	2						
Surrogate: 1-Chlorooctadecane	225	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 2' (H801916-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	<0.150	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	<0.300	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	30.4	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 3' (H801916-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/17/2018	ND	400	100	400	3.92	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ SURFACE (H801916-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.378	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.654	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	2.49	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	3.52	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	108	100	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	34200	100	07/17/2018	ND	211	105	200	8.92	QM-07, QR-03
EXT DRO >C28-C36	8510	100	07/17/2018	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	2200	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 1' (H801916-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.246	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.620	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	0.866	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 69.8-14	12						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.3	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2330	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	387	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	191 9	% 37.6-14	17						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 2' (H801916-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	<0.300	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	20.1	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 3' (H801916-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/17/2018	ND	448	112	400	7.41	

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ SURFACE (H801916-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.646	0.100	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.926	0.100	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	3.55	0.300	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	5.12	0.600	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	141	100	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	42000	100	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	9440	100	07/17/2018	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	2660	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 1' (H801916-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.254	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.564	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	0.818	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 69.8-14	12						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	61.6	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2400	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	389	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	2						
Surrogate: 1-Chlorooctadecane	196	% 37.6-14	!7						

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 2' (H801916-15)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	<0.300	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	29.3	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	100 \$	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 3' (H801916-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/17/2018	ND	448	112	400	7.41	

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ SURFACE (H801916-17)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.407	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.643	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	2.68	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	3.73	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	129	100	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	43700	100	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	9720	100	07/17/2018	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	2600	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 1' (H801916-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.305	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.647	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	0.953	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.4	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2460	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	390	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	196	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 2' (H801916-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	<0.300	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	37.8	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	11.7	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	94.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 3' (H801916-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/17/2018	ND	448	112	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ SURFACE (H801916-21)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.988	0.100	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	2.12	0.100	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	8.56	0.300	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	11.7	0.600	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	202	50.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	17500	50.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	3510	50.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	121	% 41-142	2						
Surrogate: 1-Chlorooctadecane	1040	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 1' (H801916-22)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.443	0.200	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	2.08	0.200	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	4.80	0.600	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	7.33	1.20	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	151	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	377	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	4770	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	691	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	134	% 41-142	2						
Surrogate: 1-Chlorooctadecane	288	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 2' (H801916-23)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.061	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.380	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	1.43	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	1.87	0.300	07/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	155	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	64.5	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1260	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	188	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	2						
Surrogate: 1-Chlorooctadecane	146	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 3' (H801916-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/17/2018	ND	448	112	400	7.41	

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ SURFACE (H801916-25)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	1.23	0.100	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	1.67	0.100	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	7.29	0.300	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	10.2	0.600	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	150	50.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	18000	50.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	3580	50.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	114 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	1080	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 1' (H801916-26)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.638	0.200	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	3.64	0.200	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	12.6	0.600	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	16.9	1.20	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	152	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	433	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	4470	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	653	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	133	% 41-142	2						
Surrogate: 1-Chlorooctadecane	271	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 2' (H801916-27)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.226	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.853	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	1.08	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	143	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.4	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1430	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	238	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	2						
Surrogate: 1-Chlorooctadecane	160	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 3' (H801916-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41	

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ SURFACE (H801916-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.998	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	1.29	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	6.12	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	8.41	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	150 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	133	50.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	17900	50.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	3560	50.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	117 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1100	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 1' (H801916-30)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.526	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	3.21	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	10.5	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	14.2	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	218 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	488	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	5220	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	740	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	144 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	298 9	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 2' (H801916-31)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.066	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.325	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.716	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	1.11	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	150	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	60.8	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1490	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	229	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	2						
Surrogate: 1-Chlorooctadecane	161	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 3' (H801916-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92	

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: NORTH (H801916-33)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: EAST (H801916-34)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					
Surrogate: 1-Chlorooctane	88.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	82.9	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: WEST (H801916-35)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SOUTH (H801916-36)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	75.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	80.0	% 37.6-14	7						

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Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: NORTH 2 (H801916-37)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	79.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	85.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: EAST 2 (H801916-38)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: WEST 2 (H801916-39)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	81.7	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SOUTH 2 (H801916-40)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTEX	<0.300	0.300	07/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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LABORATC	101 East Marland, Hobbs, NM	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name:	BBC International, Inc.		BILL TO	ANALYSIS REQUEST	ile-
Project Manager:	Project Manager: Cliff Brunson		P.O. #:		
Address: P.O.I	. Box 805		Company:		
city: Hobbs	State: NM	zip: 88241	Attn:		
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:		
Project #:	Project Owner:	r: C.O.G	City:		
Project Name:	Lycher BWS	STATE COM#/H	State: Zip:		
Project Location:			Phone #:	1	
Sampler Name:	7 OGET HEMANDE?		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	ор (с)омр. Алиера Почетер Алтами Ватами Е)OC ∀2E: :	7) 18 41	
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PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim alsing whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatscever's fail be deemed waived unless made in writing and received by Cardinal with: 90 days after completion of the at	r any claim arising whether based in contrac e deemed waived unless made in writing an	PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatscovers shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable	plicable	
affiliates or successors arising	It shall cardinal be lable for incordinal of consequential damages, incording without inmanual, sors arising out of or related to the performance of services hereunder by Cardinal, regardless	Cardinal, regardless of whether such claim	desires memory of the source of the source of the source of direct, his source of the source of whether such claim is based upon any of the above stated reasons or otherwise.		
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Relinquished By:	: Date:	Received By:	1 mores		
	Time:	Ţ			
Delivered By: (Circle One)	(Circle One) _ 3.3 c	Sample Condition Cool Intact	tion CHECKED BY: (Initials)		
Sampler - UPS -	- Bus - Other: Aph patient -	Ne l	40	Some have head Space	•
† Cardinal c	+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	se fax written changes to	505-393-2476		

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	10	.6					i.
Company Name:	e: BBC International, Inc.		BILL	r <i>To</i>		ANALYSIS REQUEST	-
Project Manager:	er: Cliff Brunson		P.O. #:				
Address: P.O.	. Box 805		Company:				
city: Hobbs	State: NM	zip: 88241	Attn:				
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:				
Project #:	Project Owner:	Ľ	City:	•			
Project Name:			State: Zi	Zip:			
Project Location:	n:		Phone #:	3			
Sampler Name:			Fax #:		1		
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	- 		
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PLEASE NOTE: Liability a analyses. All claims includi	PLEASE NOTE: Liability and Damages. Cardinai's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for neoligences and on other cause whatsoever shall be deemed wire univer universe in writin and revived by Cardinai within 30 dave after connection or the analysis.	any claim arising whether based in contra deemed waived unless made in writing ar	t or tort, shall be limited to the definition of the standard by Cardinal within	thether based in contract or tort, shall be limited to the amount paid by the client for the less made in with contract or Cardinal Mithin 30 dave after commention of the anolicity			1
service. In no event shall C affiliates or successors aris	service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardies	g without limitation, business interruptions, loss of use, Cardinal, regardless of whether such claim is based up	, loss of use, or loss of profits in is based upon any of the above	business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and whether such claim is based upon any of the above stated reasons or otherwise.			
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† Cardinal	† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	e fax written changes to	505-393-2476				ı

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	101 East Mariang, Hodds, NW 88240 (505) 393-2326 FAX (505) 393-2476	0005, NM 882 (505) 393-247(0 ⁴																										
Company Name:	e: BBC International,	al, Inc.									BILL TO	0						A	ANALYSIS	ΓX		REG	REQUEST	ST					
Project Manager:	er: Cliff Brunson								P.O.	:#:								-							_	-			
Address: P.O.	. Box 805								Con	Company:																			
city: Hobbs		State: NM	Zip:		88241	F			Attn:																				
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service. In no event shall (affiliates or successors aris	autory in the event shall and a second and only one concentrated of angles of the full of the second	quental damages, including of services hereunder by C.	withou	ut limita:		I wheth	interru,	out whether such claim is based	pased	ise, or los	s of profits incurre	d by client, it	s subsidiar.	les,	2														
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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- LABORAT	101 East Marland, Hobbs, I	(505) 393-2326 FAX (505) 393-2476
	East	393-
RDINAL	101	(505)

Company Name:	e: BBC International, Inc.		: 77/8	70	ANALYSIS REQUEST
Project Manager:			P.O.#:		
Address: P.O	P.O. Box 805		Company:		3
city: Hobbs	State: NM	zip: 88241	Attn:		
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:		
Project #:	Project Owner:	Ľ	City:		
Project Name:			State: Zip:	1	
Project Location:	:00		Phone #:	- 	
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PLEASE NOTE: LIADINY : analyses. All claims incluc service. In no event shall (PLEASE NU E: Lading and umages, usuanta submy and unclint service and unclint service and unclin any usual service and any other cause whatspever terrep in any cumit assume was accessed. The service service and any other cause whatspever shall be deemed waived unclint service and any other cause whatspever shall be added waived unclint service and any other cause whatspever shall be added waived unclint service and any other cause whatspever shall be deemed waived unclint service and any other cause whatspever shall be added waived unclint service and any other cause whatspever shall be added waived unclint service and any other cause whatspever shall be added waived unclint service and any other cause whatspever service and any other cause and a service and any other cause of the service and any other service and any other cause of the service and any other service and any other service and any other service and service and any other service and any other service and service		reture Lasser in routing or for the same time to virue an announ peur any me virue non me tesse made in writing and received by Cardinal writini 30 days after completion of the si business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	retrier eases in contract, not, tanto ar minime or a mount part of your of the policizable ses made in writing and the evented by Cardinal writin 30 days after completion of the policizable business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	
affliates or successors arisin Relinguished By	iffliates or successors arising out of or related to the performance of services hereunder by C. Relinguished By:	Received	of whether such claim is based upon any of the above stated r BY:	Phone Result: DYes	No Add'I Phone #:
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† Cardinal	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	e fax written changes to	505-393-2476		



December 11, 2018

Cliff Brunson BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LYCHEE BWS STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/06/18 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ SURFACE (H803591-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	5.36	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	16.6	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	22.2	0.300	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/11/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	462	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	3540	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	619	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	127 9	% 41-142							
Surrogate: 1-Chlorooctadecane	198 9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ 1 (H803591-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	0.115	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	0.666	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	0.780	0.300	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	12/11/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.4	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	379	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	92.7	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	111 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	131	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ 2 (H803591-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	0.176	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	0.958	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	1.13	0.300	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/11/2018	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.1	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	814	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	166	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	,						
Surrogate: 1-Chlorooctadecane	140	% 37.6-14	7						

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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ SURFACE (H803591-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	15.7	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	12.8	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	59.2	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	87.7	3.00	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	12/11/2018	ND	400	100	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	977	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	6010	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	957	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	163	% 41-142							
Surrogate: 1-Chlorooctadecane	271	% 37.6-14	7						

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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ 1 (H803591-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.91	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	60.8	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	45.7	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	121	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	230	3.00	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	12/11/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1380	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	5730	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	866	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	171	% 41-142							
Surrogate: 1-Chlorooctadecane	257	% 37.6-14	7						

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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ 2 (H803591-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	1.12	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	1.66	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	6.57	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	9.36	0.300	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	154	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	12/11/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	153	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	1780	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	331	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	119	% 41-142	?						
Surrogate: 1-Chlorooctadecane	165	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ SURFACE (H803591-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.04	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	28.2	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	12.2	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	57.4	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	101	3.00	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	140 \$	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	12/11/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1670	50.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	11800	50.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	2020	50.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	195 9	% 41-142							
Surrogate: 1-Chlorooctadecane	413 9	% 37.6-14	7						

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Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ 1 (H803591-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.672	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	23.7	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	21.3	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	88.3	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	134	3.00	12/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	12/11/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1240	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	5510	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	820	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	164	% 41-142	2						
Surrogate: 1-Chlorooctadecane	245	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ 2 (H803591-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.122	0.050	12/08/2018	ND	1.95	97.3	2.00	1.76	
Toluene*	5.53	0.050	12/08/2018	ND	1.96	98.1	2.00	1.95	
Ethylbenzene*	7.64	0.050	12/08/2018	ND	1.90	95.1	2.00	2.12	
Total Xylenes*	28.2	0.150	12/08/2018	ND	5.71	95.1	6.00	1.84	
Total BTEX	41.5	0.300	12/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	12/11/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	562	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	3790	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	605	10.0	12/07/2018	ND					
Surrogate: 1-Chlorooctane	148	% 41-142							
Surrogate: 1-Chlorooctadecane	217	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIR OF OUSTODY AND ANALYSIS REQUEST.	ARALYSIS REQUEST				19	2,0,	×~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7		7 2. 7	8					11		× × ×	X X X	K X X	XXX			arthe the second se	Vec 1 No	centr res - No Add1 Fronte #: It:		danae i Ariana.			
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Nos Nos	Colline.	D La C E	ess: P.U. Box 805	City: Hobbs State: NM ZI	Phone #: 575-397-6388 Fax #: 575-397-039	Project #: Project Owner:	Project Name: Lycher BWS State	Project Location: 176	Sampler Name: VO	FOR LAB USE ONLY	-IMO	Lab I.D. Samula I D.		H\$0359/	1 SoleSUR -		2	4 Splesuge C		200	Specch	2 5		recessor NU II: Llaony and Demages, Gatoria's liability and district extensity for any data melling within table of the and on the dieving the distribution of the analyses. All operating these for neglects and other cause while both the distribution of the applicable services and the distribution of the applicable services. The other candidation of the applicable services and the distribution of the applicable services and the distribution of the applicable services and and the distribution of the applicable services. All operating these for indefault of consequent and admission but has the distribution of the applicable services.	Relinquished By: Determine of services hereunder by Cardinal Relinquished By: Determine the services hereunder by Cardinal		enquished By: Detel Date: Rec.	Time:	Delivered By: (Ofrele One) Sampler - UPS - Bus - Other	0.00000	
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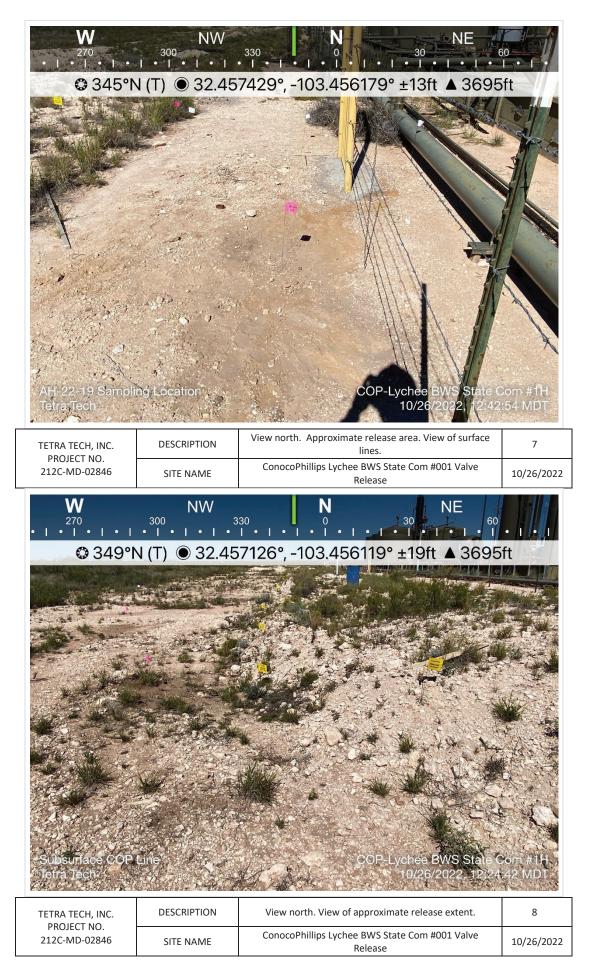
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APPENDIX E Photographic Documentation













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APPENDIX F NMSLO Seed Mixture Details

Received by OCD: 8/18/2023 2:46:02 PM



Released to Imaging: 9/13/2023 1:36:47 PM

Released to Imaging: 9/13/2023 1:36:47 PM

MAP	MAP LEGEND		MAP INFORMATION
Area of Interest (AOI)	₩ ♥	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soil Map Unit Polvgons	8	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
Soil Man Unit Lines	\$	Wet Spot	
Soil Man Unit Points	\triangleleft	Other	Enliargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
Special Point Features	Ĭ,	Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
Blowout	Water Features	tures	scale.
Borrow Pit	{	Streams and Canals	
Clay Spot	Transportation Rai	ation Rails	Please rely on the bar scale on each map sheet for map measurements.
Closed Depression	1	Interstate Highways	
K Gravel Pit	1	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survev URL:
Gravelly Spot	8	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
🙄 Landfill	8	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
🗎 🙏 Lava Flow	Background	nd	projection, which preserves direction and shape but distorts
📥 Marsh or swamp	all	Aerial Photography	Albers equal-area conic projection, should be used if more
Mine or Quarry			accurate calculations of distance or area are required.
Miscellaneous Water			This product is generated from the USDA-NRCS certified data as
Perennial Water			of the version date(s) listed below.
Rock Outcrop			Soil Survey Area: Lea County, New Mexico
			Survey Area Data: Version 18, Sep 10, 2021
Sandy Spot			Soil map units are labeled (as space allows) for map scales
Severely Eroded Spot			1:50,000 or larger.
Sinkhole			Date(s) aerial images were photographed: Feb 7, 2020—Mav
Slide or Slip			12, 2020
Sodic Spot			The orthophoto or other base map on which the soil lines were
			compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor
			shifting of map unit boundaries may be evident.

10

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BF	Berino-Cacique fine sandy loams association	0.3	100.0%
Totals for Area of Interest		0.3	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

BF—Berino-Cacique fine sandy loams association

Map Unit Setting

National map unit symbol: dmpf Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam *Btk - 8 to 60 inches:* sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam Bt - 8 to 28 inches: sandy clay loam Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 4 percent Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No

Pyote

Percent of map unit: 3 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Wink

Percent of map unit: 3 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

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SLO Seed Mix

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	С	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico



Version 1 - 200808

New Mexico State Land Office Southeastern New Mexico Revegetation Handbook

NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			-
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<u>Forbs:</u> Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs: Fourwing saltbush Common winterfat	Marana, Santa Rita VNS, Southern	1.0 0.5	D F
	Total PLS/acr	e 18.0	8

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	254395
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan and sampling plan approved.	9/13/2023
bhall	Deferral denied. Per the BBC workplan "When the release occurred the pressure from the ruptured line punctured the liner causing produced water to remain under the liner and then allowed fluids to escape outside of the lined facility onto the pad and into the pasture." Per 19.15.29.11 A.(5)(b) NMAC the entire release will need to be delineated horizontally and vertically.	9/13/2023
bhall	Per 19.15.29.12 C.(2) NMAC a deferral may be granted as long the contamination is fully delineated.	9/13/2023
bhall	A variance of any requirement of 19.15.29 NMAC can be requested. A variance request will need to include a statement that explains the need of the variance and a detailed demonstration that the variance will provide equal or better protection of freshwater, public health, and the environment.	9/13/2023
bhall	Submit a complete report through the OCD Permitting website by 12/13/2023.	9/13/2023

CONDITIONS

Action 254395