

July 11, 2018

#5E26784-BG8

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE POKER LAKE UNIT CVX JV BS #010H (2RP-4666), EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of XTO Energy Inc (XTO), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, delineation, and remediation for a release associated with the Poker Lake Unit CVX JV BS #010H . The site is located in UNIT J, SECTION 25, TOWNSHIP 24S, RANGE 30E, Eddy County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and location of the site. Table 1 summarizes the release information.

Table 1: Rele	ease Information and Site Ranking
Name	Poker Lake Unit CVX JV BS #010H
Company	XTO Energy Inc
Incident Number	2RP-4666
API Number	30-015-39846
Location	32.185566, -103.831580
Estimated Date of Release	3/4/2018
Date Reported to NMOCD	3/4/2018
Land Owner	Federal
Reported To	NMOCD District II
Source of Release	Flowline
Released Material	Produced Water & Crude Oil
Released Volume	67 bbl
Recovered Volume	65 bbl
Net Release	2 bbl
Nearest Waterway	2.7 miles northwest of Dog Town Draw
Depth to Groundwater	Greater than 100 feet bgs
Nearest Domestic Water Source	Greater than 1000 feet
NMOCD Ranking	0
SMA Response Dates	3/5/2018, 4/12/18, 6/5/2018, 6/6/2018

Poker Lake Unit CVX JV BS #010H 2RP-4666 July 11, 2018

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1.0 Background

On March 4, 2018, a buried steel line developed a leak due to corrosion. A hole was excavated to expose the leak and recover escaping fluids while the line was being clamped. A vacuum truck was dispatched immediately after discovery and was able to recover fluids and minimize surface area impacts. The line was later repaired. The release affected approximately 550 square feet of lease road and approximately 175 square feet of pasture.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 28.6 miles southeast of Carlsbad, with an elevation of approximately 3,472 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Only four wells are located within a three-mile radius of the site, all of which represent soil borings installed for site delineations and did not encounter water. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	
>100' = 0	0
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	0

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3.0 Release Characterization

On March 5, 2018, SMA field personnel mobilized to assess the release area. Upon arrival, the line had been repaired and the excavation remained open across the right-of-way (ROW) and the lease road. Six sidewall samples (SW1-SW6) from around the excavation were collected to characterize the release, along with two bottom hole samples (BH1 and BH2) from beneath the pipeline at 3.8 feet bgs. Due to safety issues with an open excavation, and blocking access of the lease road, it was backfilled with clean caliche to return the surface to previous contours until laboratory results were returned and further action could be planned.

All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D, BTEX by EPA Method 8021, and Chlorides by Method 300. The release area, excavated area, and sample location are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

4.0 Soil Remediation

Sample results from March 5, 2018 indicated that contamination extends beyond the 3.8-foot bgs depth of the excavation, and laterally in each direction from the point of release. On June 6, 2018, after 811 clearance, SMA returned to the location to further delineate the release area and to guide the excavation where necessary.

Due to the presence of several buried gas and SWD lines and steel surface lines, excavation was completed with a hydrovac to the maximum extent safely possible. Refusal was reached at locations BH1 and BH2 at six feet bgs and four feet bgs, respectively, and rock samples were collected. The excavation was also expanded laterally. Six confirmation sidewall samples were collected to demonstrate horizontal delineation.

As summarized in Table 3, all confirmation samples were within NMOCD RRAL's. Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported for proper disposal at an NMOCD permitted disposal facility. Sample locations are depicted on Figure 2. Laboratory reports are included in Appendix C.

Poker Lake Unit CVX JV BS #010H 2RP-4666 July 11, 2018

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5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, remediation, and preparation of this closure report. Work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

I thush Nevant

Reviewed by:

Austin Weyant Project Scientist Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial and Final Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

FIGURE 1 VICINITY AND NMOSE DATA MAP

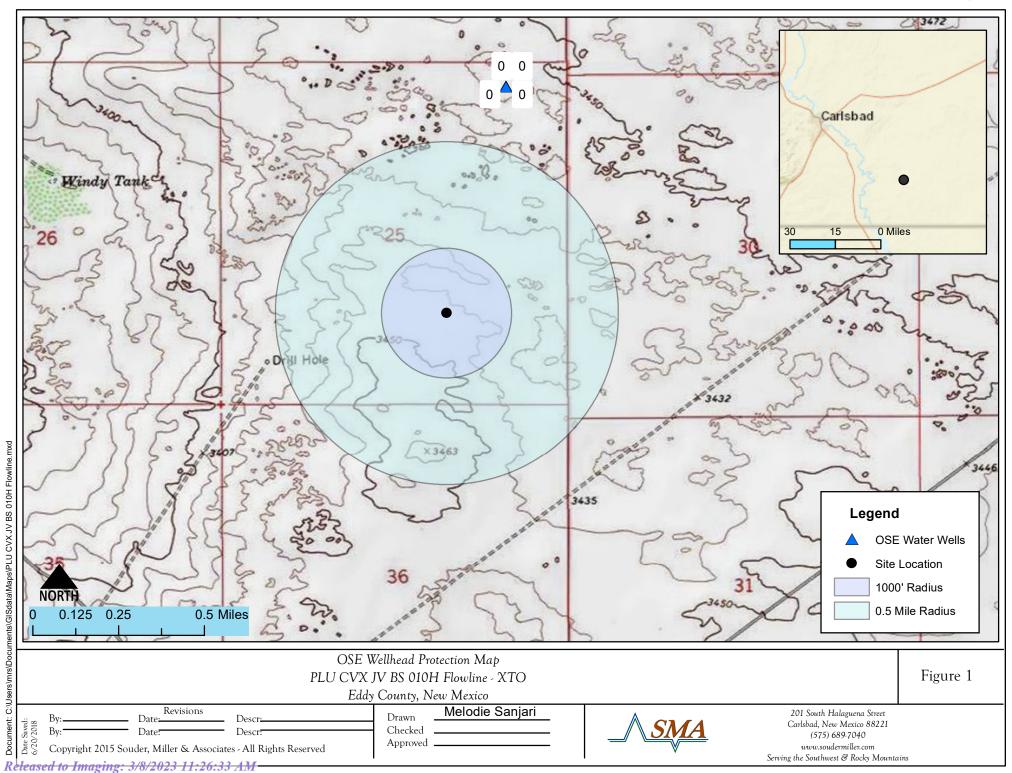


FIGURE 2 SITE AND SAMPLE LOCATION MAP

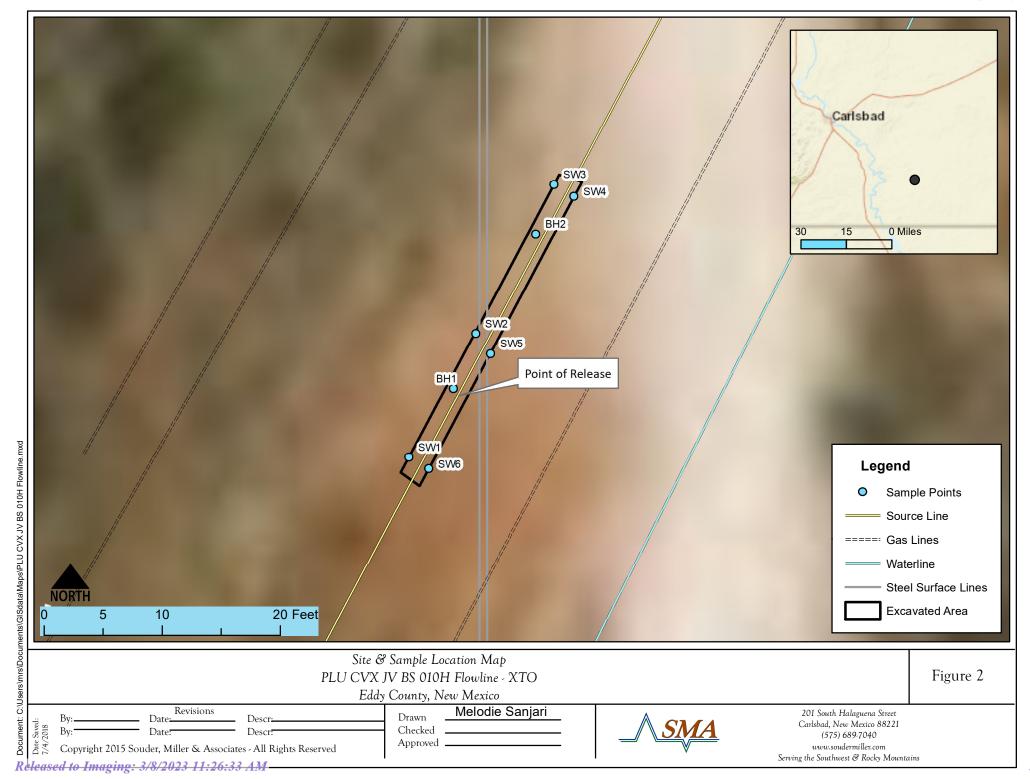


TABLE 3 SUMMARY SAMPLE RESULTS

PLU-CVX-JV-BS-010H

Table 3.

Sample Number on	Sample Date	Depth (feet	Completed Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Figure 2	Sample Date	bgs)	Completed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
	NMOCD RRAL's	for Site Ranking ()	50 mg/Kg	10 mg/Kg				5000 mg/Kg	
SW1	3/5/2018	sidewall	excavated	0.5	0.037	8.5	89	<50	97.5	2300
3001	6/6/2018	sidewall	in-situ							310
SW2	3/5/2018	sidewall	excavated	195	11	2300	7000	2200	11500	15000
3002	6/6/2018	sidewall	in-situ	<0.224	<0.025	<5.0	<10	<50	<65	100
SW3	3/5/2018	sidewall	in-situ	<0.23	<0.023	<4.7	18	<47	18	320
SW4	3/5/2018	sidewall	excavated	0.34	0.03	5.3	73	<47	78.3	1000
3004	6/6/2018	sidewall	in-situ							370
SW5	3/5/2018	sidewall	excavated	307	17	3500	12000	3800	19300	12000
3003	6/6/2018	sidewall	in-situ	<0.22	<0.024	<4.9	<10	<51	<65.9	<30
SW6	3/5/2018	sidewall	excavated	1.33	0.09	40	280	110	430	8200
3000	6/6/5018	sidewall	in-situ			<4.6	<10	<50	<64.6	160
	3/5/2018	3.8	excavated	245	13	2100	14000	5300	21400	6000
BH1	6/6/2018	5	excavated	45	<0.48	830	5600	1800	8230	8700
	6/6/2018	6	in-situ	<0.212	<0.024	5.4	640	530	1175.4	570
	6/6/2018	3.5	excavated	<0.216	<0.024	<4.8	<9.9	<50	<64.7	33
BH2	3/5/2018	3.8	excavated	491	46	4900	14000	4600	23500	23000
	6/6/2018	4	in-situ	<0.225	<0.025	<5.0	<9.9	<49	<63.9	<30

Elevated Chloride Concentration

exceeds RRAL's

to be excavated

"--" = Not Analyzed

APPENDIX A C141 INITIAL AND FINAL

!IM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico Energy Minerals and Natural Resources MAR 1 9 2018

Form C-141 Revised April 3, 2017

RESULTIVE Dpy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

	, ,	,		Santa Fe	e, NM 875	005					
	·	. , F	Release No	tification	and Co	orrective A	ction	1			
NABIS	80795	50341	2 mn 1	IMMA	OPERA'	ГOR			l Report		Final Report
		XTO Energy	aru o	W121	Contact: A	my Ruth					
		rmod, Suite 704 (No: 432-689-3				***************************************	
Facility Na	me: Poker	Lake Unit CVX	JA B2 #010H		Facility Type: Exploration and Production						
Surface Ow	vner: Fede	eral	Min	eral Owner:	Federal			API No	: 30-015-	39846	
			L	OCATION	N OF RE	LEASE					
Unit Letter	Section	Township Rai		3	South Line	Feet from the	l .	West Line	County	***************************************	r
J	25	24S 30F	E 1445	South		1830	East		Eddy		
	Latitude32.185566°Longitude103.831580° NAD83										
				NATURE	OF REL	EASE					
Type of Rele	ease	Produced water	and crude oil		Volume of	Release 67 bb	ls	Volume R	ecovered	65 bbl	S
Source of Re	elease	flow line		- L	Date and I	Iour of Occurrence	ce	Date and	Hour of Dis	covery	
			New			ime unknown		3/4/2018			
Was Immedi	late Notice (: □ No □	Not Required	If YES, To Mike Brate	o whom? cher/Crystal Weav	ver (NM	IOCD), She	lly Tucker/J	im Am	os (BLM)
By Whom?	Amy Ruti		***************************************	1	<u> </u>	Four: 3/5/2018			ot e-m		x x`
Was a Water		ched?	-		If YES, Vo	olume Impacting t			<i>J.</i>		<i>/</i>
			s 🛛 No		N/A						
If a Watercon	urse was Im	pacted, Describe F	ully.*								
IV/A											
Describe Cou	use of Probl	em and Remedial A	Action Token *	······				······		***************************************	
		veloped a leak due		hole was exca	vated to expe	ose the leak and re	ecover e	scaping flui	ids while ef	forts w	ere being
made to clam	np the line.	The line was repair	red.								
Dogariha Ara	a Affactad	and Cleanup Action	- Tolcon *								
		and Cleanup Action square feet of least		ximately 175 :	square feet of	f pasture. A vacu	um truc	k was dispa	tched imme	diately	upon
discovery and	d was able t	o recover fluids dir	ectly from exca-	vated hole arou	ınd leak mini	mizing surface ar	ea impa	cts. Recove	ered fluids a	ınd imp	pacted soils
begun.	ni nne repair	r were sent to dispo	isat. An environ	mentai contrac	ctor was retai	ned to assist with	the ren	legiation en	ort and mit	ai sam	pung nas
I hereby certi	ify that the	information given a	bove is true and	complete to th	ne best of my	knowledge and u	ındersta	nd that purs	uant to NM	OCD r	ules and
		are required to rep									
should their	or the envi operations h	ronment. The acce ave failed to adequ	ptance of a C-14 atcly investigate	and remediate	e contaminati	on that pose a thr	eport o	round water	, surface wa	rator of ster, hu	man health
or the enviro	nment. In a	ddilion, NMOCD	acceptance of a	C-141 report de	oes not reliev	e the operator of	respons	ibility for co	ompliance v	vith any	other /
lederal, state	or logalitat	vs and/o(regulatio	ns.			OIL CON	SERV	ATION	DIVISIO)N	
					OIL CONSERVATION DIVISION Signed By Alle Semana						
Signature:	1 Ju	4	34.CD		A	Signed By	y ////	<u> </u>	Commente #1		
Printed Name	e: Amy	Ruth			Approved by	Environmental S	pecians	L.			
Title: E	nvironment	al Coordinator			Approval Da	10: 3/20/18	3	Expiration I	Date: U	A	
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E-mail Addre	ess: Am	y Ruth@xtoenergy	.com		Conditions of	f Approval:	(_A A	1 001	Attached		ارززل ۸
Date: 3/19	/18	Phone:	432-689-3380	ı		see at	TUC,	NECT	1	SKI	D-4 lolola

Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u>3/19/2018</u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>3/21-4/4/11</u> 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 $\frac{2}{2}$ office in $\frac{ARTESIA}{ARTESIA}$ on or before $\frac{4/19/2018}{2}$. 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

Bratcher, Mike, EMNRD

From: Ruth, Amy <Amy_Ruth@xtoenergy.com>

Sent: Monday, March 19, 2018 2:42 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker; Jim Amos

Cc: Littrell, Kyle; Sanders, Toady; Foust, Bryan; McSpadden, Wes Subject: Initial C-141 - PLU CVX JV BS 010H 3-4-18 (API 30-015-39846)

Attachments: Initial C-141 - PLU CVX JV BS 10H 3-4-18.pdf

Good Afternoon,

Please find attached the initial C-141 detailing the referenced accidental release of fluids. Thank you for your help and contact me anytime with questions.

Respectfully,

Amy C. Ruth
Delaware Basin Division
Environmental Coordinator
3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380

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----Original Message----

From: Ruth, Amy

Sent: Monday, March 05, 2018 9:51 AM

To: Mike Bratcher; Crystal EMNRD Weaver; Shelly Tucker; Jim Amos Cc: Littrell, Kyle; Sanders, Toady; Foust, Bryan; McSpadden, Wes

Subject: Release Notification - PLU CVX JV BS 010H 3-4-18 (API 30-015-39846)

This is sent as notification of a release of fluids associated with the PLU CVX JV BS 10H flow line in an amount greater than 25 barrels. The release occurred near the PLU BS 25 Federal Battery at a road crossing. Details will be provided with an initial C141. Please call with questions or concerns. Thank you.

Amy Ruth 432-661-0571

Sent from my iPhone

Weaver, Crystal, EMNRD

From: Ruth, Amy <Amy_Ruth@xtoenergy.com>

Sent: Monday, March 5, 2018 9:51 AM **★**

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker; Jim Amos

Cc: Littrell, Kyle; Sanders, Toady; Foust, Bryan; McSpadden, Wes

Subject: Release Notification - PLU CVX JV BS 010H 3-4-18 (API 30-015-39846)

This is sent as notification of a release of fluids associated with the PLU CVX JV BS 10H flow line in an amount greater than 25 barrels. The release occurred near the PLU BS 25 Federal Battery at a road crossing. Details will be provided with an initial C141. Please call with questions or concerns. Thank you.

Amy Ruth 432-661-0571

Sent from my iPhone

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

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised 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.

2RP-4666

Release Notification and Corrective Action nAB18079500341 **OPERATOR** ☐ Initial Report Contact: Amy Ruth Name of Company: XTO Energy Telephone No.: 432-689-3380 Address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 Facility Name: Poker Lake Unit CVX JV BS #010H Facility Type: Exploration & Production Mineral Owner: Federal API No. 30-015-39846 Surface Owner: Federal LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line County Unit Letter Section **Township** Range 25 **24S** 30E 1445 South 1830 East Eddy Latitude 32.185566 Longitude -103.831580 NAD83 **NATURE OF RELEASE** Type of Release: Produced Water & Crude Oil Volume of Release: 67 bbls Volume Recovered: 65 bbls Source of Release: Flowline Date and Hour of Occurrence Date and Hour of Discovery 3/4/2018 3/4/2018 10am Was Immediate Notice Given? If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD) Shelly Tucker/Jim Amos (BLM) By Whom? Amy Ruth Date and Hour: 3/5/2018 9:50 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* A buried steel flow line developed a leak due to corrosion. A hole was excavated to expose the leak and recover escaping fluids while the line was being clamped. The line was repaired. Describe Area Affected and Cleanup Action Taken.* The release affected 550 square feet of lease road and approximately 175 square feet of pasture. A vacuum truck was dispatched immediately after discovery and was able to recover fluids and minimize surface area impacts. Remediation was completed by delineation and excavation with a hydrovac and all impacted materials were disposed of at an NMOCD approved facility. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment, in addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** uttam Hall Signature: Approved by Environmental Specialist: Printed Name: Amy Ruth **Environmental Coordinator Expiration Date:** Approval Date: Amy Ruth@xtoenergy.com E-mail Address: Conditions of Approval: Attached Phone: 432-689-3380 Closure approved 11/19/2019 Date * Attach Additional Sheets If Necessary

APPENDIX B NMOSE WELLS REPORT



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)

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

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	POD Sub-		Q (a Q							Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	Х	Υ	Distance	Well	Water	Column
C 03558 POD1	CUB	ED					30E	610412	3562651 🌍	1082	20	0	20
C 03558 POD2	CUB	ED	1	2 2	25	24S	30E	610412	3562651 🌍	1082	20	0	20
C 03558 POD3	CUB	ED	1	2 2	25	24S	30E	610412	3562651 🌍	1082	25	0	25
C 03558 POD4	CUB	ED	1	2 2	25	24S	30E	610412	3562651 🌍	1082	25	0	25
C 03558 POD5	CUB	ED	1	2 2	25	24S	30E	610412	3562651 🌍	1082	30	0	30
C 03702 POD1	CUB	ED	4	1 4	24	24S	30E	610092	3563204 🌍	1602	20		
<u>C 02110</u>	CUB	ED		4 3	23	24S	30E	608036	3562950* 🌍	2501	600	400	200
<u>C 02781</u>	CUB	ED	4	3 2	23	24S	30E	608535	3563657* 🌍	2609	624		
C 02782	CUB	ED	4	3 2	23	24S	30E	608535	3563657* 🌍	2609	808		
C 03716 POD1	CUB	ED	4	2 2	02	25S	30E	609069	3559211 🌍	2621	600	425	175
C 03891 POD1	CUB	ED	4	4 2	01	25S	30E	610608	3558890 🌑	2751	635	429	206
<u>C 02780</u>	CUB	ED	2	3 2	23	24S	30E	608535	3563857*	2769	505		

Average Depth to Water: 156 feet

> Minimum Depth: 0 feet

Maximum Depth: 429 feet

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 610143.99 Northing (Y): 3561602.86 Radius: 5000

*UTM location was derived from PLSS - see Help

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 REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 14, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: PLU OrderNo.: 1803361

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/7/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

 Project:
 PLU
 Collection Date: 3/5/2018 3:16:00 PM

 Lab ID:
 1803361-001
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	2300	150	mg/Kg	100	3/13/2018 9:15:38 PM	36950
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	89	10	mg/Kg	1	3/9/2018 6:47:38 PM	36911
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/9/2018 6:47:38 PM	36911
Surr: DNOP	108	70-130	%Rec	1	3/9/2018 6:47:38 PM	36911
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	8.5	4.9	mg/Kg	1	3/8/2018 12:52:51 PM	36891
Surr: BFB	124	15-316	%Rec	1	3/8/2018 12:52:51 PM	36891
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.037	0.024	mg/Kg	1	3/8/2018 12:52:51 PM	36891
Toluene	0.12	0.049	mg/Kg	1	3/8/2018 12:52:51 PM	36891
Ethylbenzene	0.050	0.049	mg/Kg	1	3/8/2018 12:52:51 PM	36891
Xylenes, Total	0.29	0.097	mg/Kg	1	3/8/2018 12:52:51 PM	36891
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	3/8/2018 12:52:51 PM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 PLU
 Collection Date: 3/5/2018 3:17:00 PM

 Lab ID:
 1803361-002
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS				Analyst: MR	A
Chloride	15000	750	mg/Kg	500 3/13/2018 9:28:02 PM 369	50
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;		Analyst: TO	M
Diesel Range Organics (DRO)	7000	200	mg/Kg	20 3/9/2018 5:58:40 PM 369 ⁻¹	11
Motor Oil Range Organics (MRO)	2200	1000	mg/Kg	20 3/9/2018 5:58:40 PM 369 ⁻	11
Surr: DNOP	0	70-130	S %Rec	20 3/9/2018 5:58:40 PM 369°	11
EPA METHOD 8015D: GASOLINE RAN	IGE			Analyst: NS	В
Gasoline Range Organics (GRO)	2300	480	mg/Kg	100 3/8/2018 9:40:47 AM 3689	91
Surr: BFB	187	15-316	%Rec	100 3/8/2018 9:40:47 AM 3689	91
EPA METHOD 8021B: VOLATILES				Analyst: NS	В
Benzene	11	2.4	mg/Kg	100 3/8/2018 9:40:47 AM 3689	91
Toluene	70	4.8	mg/Kg	100 3/8/2018 9:40:47 AM 3689	91
Ethylbenzene	19	4.8	mg/Kg	100 3/8/2018 9:40:47 AM 3689	91
Xylenes, Total	95	9.7	mg/Kg	100 3/8/2018 9:40:47 AM 3689	91
Surr: 4-Bromofluorobenzene	117	80-120	%Rec	100 3/8/2018 9:40:47 AM 3689	91

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW3

 Project:
 PLU
 Collection Date: 3/5/2018 3:21:00 PM

 Lab ID:
 1803361-003
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	320	30	mg/Kg	20	3/11/2018 6:42:55 PM	36950
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;			Analyst	t: TOM
Diesel Range Organics (DRO)	18	9.4	mg/Kg	1	3/9/2018 5:34:10 PM	36911
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/9/2018 5:34:10 PM	36911
Surr: DNOP	110	70-130	%Rec	1	3/9/2018 5:34:10 PM	36911
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/8/2018 1:16:29 PM	36891
Surr: BFB	95.7	15-316	%Rec	1	3/8/2018 1:16:29 PM	36891
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.023	mg/Kg	1	3/8/2018 1:16:29 PM	36891
Toluene	ND	0.047	mg/Kg	1	3/8/2018 1:16:29 PM	36891
Ethylbenzene	ND	0.047	mg/Kg	1	3/8/2018 1:16:29 PM	36891
Xylenes, Total	ND	0.093	mg/Kg	1	3/8/2018 1:16:29 PM	36891
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	3/8/2018 1:16:29 PM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 PLU
 Collection Date: 3/5/2018 3:30:00 PM

 Lab ID:
 1803361-004
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	1000	30	mg/Kg	20	3/11/2018 6:55:20 PM	36950
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	t: TOM
Diesel Range Organics (DRO)	73	9.4	mg/Kg	1	3/9/2018 5:09:26 PM	36911
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/9/2018 5:09:26 PM	36911
Surr: DNOP	109	70-130	%Rec	1	3/9/2018 5:09:26 PM	36911
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	5.3	4.9	mg/Kg	1	3/8/2018 1:39:53 PM	36891
Surr: BFB	118	15-316	%Rec	1	3/8/2018 1:39:53 PM	36891
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	0.030	0.025	mg/Kg	1	3/8/2018 1:39:53 PM	36891
Toluene	0.079	0.049	mg/Kg	1	3/8/2018 1:39:53 PM	36891
Ethylbenzene	ND	0.049	mg/Kg	1	3/8/2018 1:39:53 PM	36891
Xylenes, Total	0.23	0.098	mg/Kg	1	3/8/2018 1:39:53 PM	36891
Surr: 4-Bromofluorobenzene	95.1	80-120	%Rec	1	3/8/2018 1:39:53 PM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

 Project:
 PLU
 Collection Date: 3/5/2018 3:45:00 PM

 Lab ID:
 1803361-005
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	12000	750		mg/Kg	500	3/13/2018 9:40:27 PM	36950
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	;				Analyst	: TOM
Diesel Range Organics (DRO)	12000	200		mg/Kg	20	3/9/2018 4:20:09 PM	36911
Motor Oil Range Organics (MRO)	3800	1000		mg/Kg	20	3/9/2018 4:20:09 PM	36911
Surr: DNOP	0	70-130	S	%Rec	20	3/9/2018 4:20:09 PM	36911
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	:: NSB
Gasoline Range Organics (GRO)	3500	250		mg/Kg	50	3/8/2018 10:04:32 AM	36891
Surr: BFB	360	15-316	S	%Rec	50	3/8/2018 10:04:32 AM	36891
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	17	1.2		mg/Kg	50	3/8/2018 10:04:32 AM	36891
Toluene	110	2.5		mg/Kg	50	3/8/2018 10:04:32 AM	36891
Ethylbenzene	30	2.5		mg/Kg	50	3/8/2018 10:04:32 AM	36891
Xylenes, Total	150	4.9		mg/Kg	50	3/8/2018 10:04:32 AM	36891
Surr: 4-Bromofluorobenzene	136	80-120	S	%Rec	50	3/8/2018 10:04:32 AM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 PLU
 Collection Date: 3/5/2018 3:50:00 PM

 Lab ID:
 1803361-006
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	8200	300	mg/Kg	200	3/13/2018 8:38:24 PM	36973
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: ТОМ
Diesel Range Organics (DRO)	280	9.1	mg/Kg	1	3/9/2018 3:55:34 PM	36911
Motor Oil Range Organics (MRO)	110	46	mg/Kg	1	3/9/2018 3:55:34 PM	36911
Surr: DNOP	115	70-130	%Rec	1	3/9/2018 3:55:34 PM	36911
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	40	4.8	mg/Kg	1	3/8/2018 2:03:09 PM	36891
Surr: BFB	225	15-316	%Rec	1	3/8/2018 2:03:09 PM	36891
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.090	0.024	mg/Kg	1	3/8/2018 2:03:09 PM	36891
Toluene	0.28	0.048	mg/Kg	1	3/8/2018 2:03:09 PM	36891
Ethylbenzene	0.14	0.048	mg/Kg	1	3/8/2018 2:03:09 PM	36891
Xylenes, Total	0.82	0.095	mg/Kg	1	3/8/2018 2:03:09 PM	36891
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	3/8/2018 2:03:09 PM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1

 Project:
 PLU
 Collection Date: 3/5/2018 3:57:00 PM

 Lab ID:
 1803361-007
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	6000	300		mg/Kg	200	3/13/2018 8:50:48 PM	36973
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;				Analyst	: TOM
Diesel Range Organics (DRO)	14000	180		mg/Kg	20	3/9/2018 3:06:10 PM	36911
Motor Oil Range Organics (MRO)	5300	910		mg/Kg	20	3/9/2018 3:06:10 PM	36911
Surr: DNOP	0	70-130	S	%Rec	20	3/9/2018 3:06:10 PM	36911
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	2100	47		mg/Kg	10	3/8/2018 10:28:09 AM	36891
Surr: BFB	499	15-316	S	%Rec	10	3/8/2018 10:28:09 AM	36891
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	13	0.24		mg/Kg	10	3/8/2018 10:28:09 AM	36891
Toluene	88	4.7		mg/Kg	100	3/8/2018 2:26:26 PM	36891
Ethylbenzene	24	0.47		mg/Kg	10	3/8/2018 10:28:09 AM	36891
Xylenes, Total	120	9.4		mg/Kg	100	3/8/2018 2:26:26 PM	36891
Surr: 4-Bromofluorobenzene	202	80-120	S	%Rec	10	3/8/2018 10:28:09 AM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2

 Project:
 PLU
 Collection Date: 3/5/2018 4:00:00 PM

 Lab ID:
 1803361-008
 Matrix: SOIL
 Received Date: 3/7/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: MRA
Chloride	23000	750	mg/Kg	500 3/13/2018 9:03:13 PM	36973
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;		Analyst	: TOM
Diesel Range Organics (DRO)	14000	190	mg/Kg	20 3/9/2018 2:16:55 PM	36911
Motor Oil Range Organics (MRO)	4600	950	mg/Kg	20 3/9/2018 2:16:55 PM	36911
Surr: DNOP	0	70-130	S %Rec	20 3/9/2018 2:16:55 PM	36911
EPA METHOD 8015D: GASOLINE RAM	IGE			Analyst	: NSB
Gasoline Range Organics (GRO)	4900	480	mg/Kg	100 3/8/2018 2:49:48 PM	36891
Surr: BFB	189	15-316	%Rec	100 3/8/2018 2:49:48 PM	36891
EPA METHOD 8021B: VOLATILES				Analyst	: NSB
Benzene	46	2.4	mg/Kg	100 3/8/2018 2:49:48 PM	36891
Toluene	200	4.8	mg/Kg	100 3/8/2018 2:49:48 PM	36891
Ethylbenzene	45	0.48	mg/Kg	10 3/8/2018 10:51:49 AM	36891
Xylenes, Total	200	9.6	mg/Kg	100 3/8/2018 2:49:48 PM	36891
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	100 3/8/2018 2:49:48 PM	36891

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803361** *14-Mar-18*

Page 9 of 12

Client: Souder, Miller & Associates

Project: PLU

Sample ID MB-36950 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36950 RunNo: 49705

Prep Date: 3/11/2018 Analysis Date: 3/11/2018 SeqNo: 1607578 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36950 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36950 RunNo: 49705

Prep Date: 3/11/2018 Analysis Date: 3/11/2018 SeqNo: 1607579 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 99.5 90 110

Sample ID MB-36973 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36973 RunNo: 49736

Prep Date: 3/12/2018 Analysis Date: 3/13/2018 SeqNo: 1608868 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36973 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36973 RunNo: 49736

Prep Date: 3/12/2018 Analysis Date: 3/13/2018 SeqNo: 1608869 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.0 90 110

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803361** *14-Mar-18*

Client: Souder, Miller & Associates

Project: PLU

Sample ID LCS-36911 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 36911 RunNo: 49665

Prep Date: 3/8/2018 Analysis Date: 3/9/2018 SeqNo: 1606616 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 47 50.00 0 94.8 70 130

Surr: DNOP 4.0 50.00 0 94.8 70 130

Sample ID MB-36911 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 36911 RunNo: 49665

Prep Date: 3/8/2018 Analysis Date: 3/9/2018 SeqNo: 1606617 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.9 10.00 88.7 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803361**

14-Mar-18

Client: Souder, Miller & Associates

Project: PLU

Surr: BFB

Sample ID MB-36891 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 36891 RunNo: 49653

Prep Date: 3/7/2018 Analysis Date: 3/8/2018 SeqNo: 1605661 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 96.5 15 316

Sample ID LCS-36891 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 36891 RunNo: 49653

1100

Prep Date: 3/7/2018 Analysis Date: 3/8/2018 SeqNo: 1605662 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 75.9 131

113

15

316

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803361** *14-Mar-18*

Client: Souder, Miller & Associates

Project: PLU

Sample ID MB-36891 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 36891 RunNo: 49653 Prep Date: 3/7/2018 Analysis Date: 3/8/2018 SeqNo: 1605685 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.95 1.000 94.6 80 120

Sample ID LCS-36891	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 36	891	F	RunNo: 4	9653				
Prep Date: 3/7/2018	Analysis [Date: 3/	8/2018	S	SeqNo: 1	605686	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	77.3	128			
Toluene	1.0	0.050	1.000	0	103	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	101	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	104	81.6	129			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 12 of 12



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Number:	1803361		RcptNo: 1	
Received By: Mandy Woods	3/7/2018 9:50:00 AM		SOM		
Completed By: Erin Melendrez	3/7/2018 10:42:21 AM		was	7	
Reviewed By: 8/20 03/07/	8	i abili	ed By I	7125	
Chain of Custody					
 Is Chain of Custody complete? 		Yes 🗸	No 📙	Not Present	
How was the sample delivered?		Courier			
Log In			-		
 Was an attempt made to cool the samp 	es?	Yes 🗸	No 🗀	NA 🗆	
4. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	NA \square	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6, Sufficient sample volume for indicated to	est(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗆		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
(), Were any sample containers received b	roken?	Yes 🗆	No 🗹	# of preserved bottles checked	
1, Does paperwork match bottle labels?		Yes 🗸	No 🗆	for pH:	10 unless nated)
(Note discrepancies on chain of custody		Yes 🗸	No 🗆	Adjusted?	12 unless noted)
2. Are matrices correctly identified on Chai		Yes 🗹	No 🗆	-	
Is it clear what analyses were requestedWere all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			-		
Special Handling (if applicable) 15. Was client notified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:	***********			
By Whom:	Via: [eMail	Phone Fax	In Person	
Regarding:					
Client Instructions:		-			
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No S	Seal Date	Signed By		
1 1.4 Good	Yes				

Project Running Address: Project Running Address: Project Running Address: Project Running Address: Project Running Running Address: Project Running Address: Project Running Running Address: Project Running Running Address: Project Running Running Address: Project Running Running Running Running Running Address: Project Running Runnin	Chain-of-Custody Record	ody Record	Turn-Around Time:	11								-	₹С€
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Container Cont	email or Fax#:		Project Manager:			(O)		10					11:2
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 21, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: 10 H OrderNo.: 1806503

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/7/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

 Project:
 10 H
 Collection Date: 6/6/2018 9:27:00 AM

 Lab ID:
 1806503-001
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JRR
Chloride	310	30	mg/Kg	20	6/14/2018 5:04:13 PM	1 38695

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 10 H
 Collection Date: 6/6/2018 9:55:00 AM

 Lab ID:
 1806503-002
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	100	30	mg/Kg	20	6/14/2018 5:41:25 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/12/2018 7:16:30 PM	38610
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/12/2018 7:16:30 PM	38610
Surr: DNOP	99.8	70-130	%Rec	1	6/12/2018 7:16:30 PM	38610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Surr: BFB	83.0	15-316	%Rec	1	6/12/2018 3:04:41 PM	38591
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Benzene	ND	0.025	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Toluene	ND	0.050	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Ethylbenzene	ND	0.050	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Xylenes, Total	ND	0.099	mg/Kg	1	6/12/2018 3:04:41 PM	38591
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	6/12/2018 3:04:41 PM	38591

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 10 H

 Collection Date:
 6/6/2018 1:42:00 PM

 Lab ID:
 1806503-003

 Matrix:
 SOIL

 Received Date:
 6/7/2018 10:00:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	370	30	mg/Kg	20	6/14/2018 5:53:50 PM	38695

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 3 of 13 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

% Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

 Project:
 10 H
 Collection Date: 6/6/2018 10:30:00 AM

 Lab ID:
 1806503-004
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	6/14/2018 6:06:14 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/12/2018 7:41:09 PM	38610
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	6/12/2018 7:41:09 PM	38610
Surr: DNOP	100	70-130	%Rec	1	6/12/2018 7:41:09 PM	38610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Surr: BFB	82.2	15-316	%Rec	1	6/12/2018 3:28:28 PM	38591
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Benzene	ND	0.024	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Toluene	ND	0.049	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Ethylbenzene	ND	0.049	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Xylenes, Total	ND	0.098	mg/Kg	1	6/12/2018 3:28:28 PM	38591
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	6/12/2018 3:28:28 PM	38591

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 10 H
 Collection Date: 6/6/2018 10:12:00 AM

 Lab ID:
 1806503-005
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	160	30	mg/Kg	20	6/14/2018 6:18:39 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/12/2018 8:05:40 PM	38610
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/12/2018 8:05:40 PM	38610
Surr: DNOP	99.2	70-130	%Rec	1	6/12/2018 8:05:40 PM	38610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/12/2018 6:15:08 PM	38591
Surr: BFB	84.1	15-316	%Rec	1	6/12/2018 6:15:08 PM	38591

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-3.5'

 Project:
 10 H
 Collection Date: 6/6/2018 10:49:00 AM

 Lab ID:
 1806503-006
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: JRR
Chloride	33	30	mg/Kg	20	6/14/2018 6:31:03 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/12/2018 8:29:58 PM	38610
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/12/2018 8:29:58 PM	38610
Surr: DNOP	97.5	70-130	%Rec	1	6/12/2018 8:29:58 PM	38610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/12/2018 6:38:58 PM	38591
Surr: BFB	83.1	15-316	%Rec	1	6/12/2018 6:38:58 PM	38591
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/12/2018 6:38:58 PM	38591
Toluene	ND	0.048	mg/Kg	1	6/12/2018 6:38:58 PM	38591
Ethylbenzene	ND	0.048	mg/Kg	1	6/12/2018 6:38:58 PM	38591
Xylenes, Total	ND	0.096	mg/Kg	1	6/12/2018 6:38:58 PM	38591
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	6/12/2018 6:38:58 PM	38591

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-4'

 Project:
 10 H
 Collection Date: 6/6/2018 12:07:00 PM

 Lab ID:
 1806503-007
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	6/14/2018 7:08:17 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/12/2018 8:54:36 PM	38610
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/12/2018 8:54:36 PM	38610
Surr: DNOP	109	70-130	%Rec	1	6/12/2018 8:54:36 PM	38610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/12/2018 7:02:49 PM	38591
Surr: BFB	83.2	15-316	%Rec	1	6/12/2018 7:02:49 PM	38591
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/12/2018 7:02:49 PM	38591
Toluene	ND	0.050	mg/Kg	1	6/12/2018 7:02:49 PM	38591
Ethylbenzene	ND	0.050	mg/Kg	1	6/12/2018 7:02:49 PM	38591
Xylenes, Total	ND	0.10	mg/Kg	1	6/12/2018 7:02:49 PM	38591
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	6/12/2018 7:02:49 PM	38591

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-5'

 Project:
 10 H
 Collection Date: 6/6/2018 2:30:00 PM

 Lab ID:
 1806503-008
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	8700	750		mg/Kg	500	6/15/2018 11:14:39 AM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	5600	100		mg/Kg	10	6/14/2018 11:30:57 AM	38610
Motor Oil Range Organics (MRO)	1800	500		mg/Kg	10	6/14/2018 11:30:57 AM	38610
Surr: DNOP	0	70-130	S	%Rec	10	6/14/2018 11:30:57 AM	38610
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	830	95		mg/Kg	20	6/12/2018 7:26:42 PM	38591
Surr: BFB	284	15-316		%Rec	20	6/12/2018 7:26:42 PM	38591
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.48		mg/Kg	20	6/12/2018 7:26:42 PM	38591
Toluene	7.5	0.95		mg/Kg	20	6/12/2018 7:26:42 PM	38591
Ethylbenzene	5.5	0.95		mg/Kg	20	6/12/2018 7:26:42 PM	38591
Xylenes, Total	32	1.9		mg/Kg	20	6/12/2018 7:26:42 PM	38591
Surr: 4-Bromofluorobenzene	130	80-120	S	%Rec	20	6/12/2018 7:26:42 PM	38591

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-6'

 Project:
 10 H
 Collection Date: 6/6/2018 2:45:00 PM

 Lab ID:
 1806503-009
 Matrix: SOIL
 Received Date: 6/7/2018 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JRR
Chloride	570	30		mg/Kg	20	6/14/2018 7:33:06 PM	38695
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: TOM
Diesel Range Organics (DRO)	640	9.8		mg/Kg	1	6/12/2018 9:43:39 PM	38610
Motor Oil Range Organics (MRO)	530	49		mg/Kg	1	6/12/2018 9:43:39 PM	38610
Surr: DNOP	136	70-130	S	%Rec	1	6/12/2018 9:43:39 PM	38610
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	5.4	4.7		mg/Kg	1	6/12/2018 7:50:29 PM	38591
Surr: BFB	131	15-316		%Rec	1	6/12/2018 7:50:29 PM	38591
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	6/12/2018 7:50:29 PM	38591
Toluene	ND	0.047		mg/Kg	1	6/12/2018 7:50:29 PM	38591
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2018 7:50:29 PM	38591
Xylenes, Total	ND	0.094		mg/Kg	1	6/12/2018 7:50:29 PM	38591
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	6/12/2018 7:50:29 PM	38591

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806503**

21-Jun-18

Client: Souder, Miller & Associates

Project: 10 H

Sample ID MB-38695 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **38695** RunNo: **51990**

Prep Date: 6/14/2018 Analysis Date: 6/14/2018 SeqNo: 1700215 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-38695 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38695 RunNo: 51990

Prep Date: 6/14/2018 Analysis Date: 6/14/2018 SeqNo: 1700216 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

ts Page 10 of 13

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806503**

21-Jun-18

Client: Souder, Miller & Associates

Project: 10 H

Sample ID LCS-38610	SampT	ype: LC	s	Tes	e Organics						
Client ID: LCSS	Batch	Batch ID: 38610			RunNo: 5	1898					
Prep Date: 6/11/2018	Analysis D	Analysis Date: 6/12/2018			SeqNo: 1696744			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10	50.00	0	99.4	70	130				
Surr: DNOP	44		5 000		87.6	70	130				

Sample ID MB-38610	SampT	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	Batch ID: 38610		R	RunNo: 51898						
Prep Date: 6/11/2018	Analysis D	ate: 6/	12/2018	S	SeqNo: 1	696745	Units: mg/K	ίg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.9		10.00		99.4	70	130				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 13

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806503 21-Jun-18

Client: Souder, Miller & Associates

Project: 10 H

Sample ID MB-38591 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 38591 RunNo: 51914

Prep Date: 6/11/2018 Analysis Date: 6/12/2018 SeqNo: 1696559 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.9 15 316

Sample ID LCS-38591 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38591 RunNo: 51914

Prep Date: 6/11/2018 Analysis Date: 6/12/2018 SeqNo: 1696560 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 0 111 75.9 131

Surr: BFB 970 1000 97.2 316 15

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-38635 SampType: MBLK

Client ID: **PBS** Batch ID: 38635 RunNo: 51956

Prep Date: 6/12/2018 Analysis Date: 6/13/2018 SeqNo: 1698126 Units: %Rec

PQL SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual

Surr: BFB 1000

Sample ID LCS-38635 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 38635 RunNo: 51956

Analysis Date: 6/13/2018 Prep Date: 6/12/2018 SeqNo: 1698127 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

980 Surr: BFB 1000 97.6 15 316

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 12 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806503**

21-Jun-18

Client: Souder, Miller & Associates

Project: 10 H

Sample ID MB-38591	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batc	h ID: 38	591	F	tunNo: 5	1914					
Prep Date: 6/11/2018	Analysis [Date: 6/	12/2018	S	SeqNo: 1	696595	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120				
Sample ID LCS-38591	SampType: LCS			Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 38	591	F	RunNo: 51914						
Prep Date: 6/11/2018	Analysis [Date: 6/	12/2018	S	SeqNo: 1	696596	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	0.93	0.10	1.000	0	93.4	70.1	121				
Benzene	0.93	0.025	1.000	0	92.7	77.3	128				
Toluene	0.96	0.050	1.000	0	95.9	79.2	125				
Ethylbenzene	0.95	0.050	1.000	0	94.9	80.7	127				
/.d Tatal	0.0	0.10	3.000	0	96.9	81.6	129				
Kylenes, Total	2.9	0.10	0.000	•	00.0						
Surr: 4-Bromofluorobenzene	1.0	0.10	1.000	· ·	103	80	120				

Sample ID	MB-38635	SampType	: MBLK	Tes	tCode: El					
Client ID:	PBS	Batch ID:	38635	R	RunNo: 5	1956				
Prep Date:	6/12/2018	Analysis Date:	S	SeqNo: 10	698170	Units: %Rec	:			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Broi	mofluorobenzene	1.0	1.000		104	80	120			

Sample ID LCS-38635	SampT	ype: LC	cs	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	ID: 38	635	F	RunNo: 5	1956						
Prep Date: 6/12/2018	Analysis D	ate: 6/	/13/2018	S	SeqNo: 1	698171	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Curry A Dromofluorobonzono	1.0		1 000		102	90	120					

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 13 of 13

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Number:	1806503		RcptNo: 1	
Received By: Jazzmine Burkhead	6/7/2018 10:00:00 AM		nor Backhar		
			A		
Completed By: Ashley Gallegos	6/8/2018 12:07:24 PM		A		
Reviewed By: LNM	4/8/18	la	beled	by: 3B	00/08/18
Chain of Custody		. •			
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2 How was the sample delivered?		Courier			
<u>Log In</u>	•			:	•
3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗀	NA L.	
1. Word all complex received at a temperature			No 🗌		
Were all samples received at a temperatu	le or >0 C to 6.0 C	Yes 🔽	. 110	NA L	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
	_		🗔		
Sufficient sample volume for indicated tes		Yes 🗹	No 📙		
Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
Was preservative added to bottles?		Yes 🗔	No 🗹	NA 📙	/
). VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	108
O. Were any sample containers received bro	ken?	Yes 🗆	No 🗹 🗆		
				# of preserved bottles checked	166
1. Does paperwork match bottle labels?		Yes 🗸	No 🗆	for pH:	
(Note discrepancies on chain of custody)	10 110			(<2 or 1) Adjusted?	2 unless noted)
Are matrices correctly identified on Chain of the logs what analyses were requested?		Yes 🗹	No ∐ │	Valuaten :	4.
Is it clear what analyses were requested?Were all holding times able to be met?		Yes ✔ Yes ✔	No ☐	Checked by:	
(If no, notify customer for authorization.)		162	INU L.		
pecial Handling (if applicable)					
5. Was client notified of all discrepancies wit	h this order?	Yes 🗌	Nö 🗌	NA 🗹	•
Person Notified:			.40	NA EI	
By Whom:	Date Via:	object 🗔	Dhone 🗆 🗀	□ In Porter	
Regarding:	Via:	eMail	Phone Fax	In Person	•
Client Instructions:		***************************************			
	<u> </u>		· · · · · · · · · · · · · · · · · · ·	··	
6. Additional remarks:		- 1		•	
7. Cooler Information	2155		المناف بالمنافق وروات		
	Seal Intact Seal No Se	al Date	Signed By		· ·
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Page 1 of 1

	AALL ENVIKONMENTAL Anai ysts i aropatody		4901 Hawkins NE - Albuquerque, NM 87109	20							SSY0 (S														
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,	Rush 5day	5					Jeyans		2 C (2/(E) -)	?	HEAL NO.	100-	-007	200-	has-	-005	200-	100-	800-	-009			Date T	6/1/18 0/20	81/20/9
	<u> </u>	<u></u>	7-9	Project #:]	Project Manager:	Austh a	Sampler:		Container Preservative	Type and # Type	402.		- 0	Was annual or the same of the		پ	baggay	1957	baggy	7 20		Received by:	Bocking Pu	my Bushell
Chain-or-Custody Record	Carisbad						☐ Level 4 (Full Validation)				Sample Kequest ID	ms	SW2	Sust	SWS	SWG	BHQ-3.51	BH2-41	841-51	19-149			d by:	and but	1900 Milan Bushed 0
ot-Cu	- HWS							□ Other			Matrix	ゆいし					-		Tuss	rak			Relinquished by:		
naın	\mathcal{N}		Mailing Address:		ابيد	Fax#:	ackage: lard	ation	(Tyne)	-(2d(-)	ıme	9227	9:55	1:42	10: 30	10:12	10:40	15:01	1.30	2:45				0 700	88/
ر	Client:		Mailing		Phone #:	email or Fax#:	QA/QC Package: □ Standard	Accreditation	A EDD (Type		Date	8 halle	-						7)				() () () () () () () () () ()	8/149

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

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

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

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

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

CONDITIONS

Action 194823

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	194823
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Create: By	d Condition	Condition Date
bhall	None	3/8/2023