

February 7, 2018

#5E26784-BG4

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

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE GOLDEN D FEDERAL #004 (2RP-4551) RELEASE SITE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of XTO Energy, Inc. (XTO), Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the Golden D Federal #004 (2RP-4551). The site is in UNIT E, SECTION 16, TOWNSHIP 21S, RANGE 29E, NMPM, Eddy County, New Mexico, on Federal and State land. Figure 1 illustrates the vicinity and location of the site. Table 1, below, summarizes information regarding the release.

Table 1: Rele	Table 1: Release Information and Site Ranking							
Name	Golden D Federal #004							
Company	XTO Energy Inc							
Incident Number	2RP-4551							
API Number	30-015-35636							
Location	32.481906, -103.9908092							
Estimated Date of Release	12/21/2017							
Date Reported to NMOCD	12/21/2017							
Land Owner	BLM/State							
Reported To	NMOCD District II							
Source of Release	Flow Line							
Released Material	Produced Water							
Released Volume	26 bbl							
Recovered Volume	0 bbl							
Net Release	26 bbl							
Nearest Waterway	Old Indian Draw is approximately 5 miles south of location							
Depth to Groundwater	Estimated to be greater than 100'							
Nearest Domestic Water Source	Greater than 1,000 feet							
NMOCD Ranking	0							
SMA Response Dates	12/21/2017 & 1/15/2018							

1.0 Background

On December 21, 2017, a leak formed on the steel surface flowline of the Golden D Federal #004 pipeline due to a loose hammer union. The release impacted approximately 4,988 square feet of lease road that includes both federal and state surface.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 13 miles east of Carlsbad, with an elevation of approximately 3,344 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. Several wells are located within a three-mile radius of the site, all of which have a depth of groundwater greater than 100 feet. After further 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, Table 2 summarizes 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
ВТЕХ	50 PPM	50 PPM	50 PPM
ТРН	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

3.0 Release Characterization

On December 21, 2017, SMA field personnel assessed the release area and collected delineation samples. Four sample locations along the flow path were augured by hand to a maximum depth of two feet bgs. Soil samples were field-screened for chlorides with a mobile titration unit (EPA 4500).

On January 15, 2018, SMA field personnel returned to the site to further delineate vertical contamination at sample locations L1 and L2. These locations were augured by hand to a maximum of three feet bgs due to the confining layer of caliche. The soil samples were again field-screened for chlorides with a mobile titration unit (EPA 4500).

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 (L1 at 0.5 feet), BTEX by EPA Method 8021 (L1 at 0.5 feet), and Chlorides by Method 300. Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Hydrocarbon impacts are below NMOCD screening RRALs, and chloride impacts appear to decrease with depth. Soil contaminant concentrations are illustrated in Figure 2.

4.0 Proposed Soil Remediation Work Plan

SMA proposes, after approval from area utilities via 811, to excavate the impacted area to approximately 4 feet bgs surrounding the sample points L1 and L2 and approximately 1-foot bgs for the remainder of the release area. SMA will continuously guide the excavation activities by collecting soil samples for field screening with a mobile EC unit (EPA 4500). All contaminated soils will be removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil will be transported for proper disposal at an NMOCD permitted disposal facility. Closure samples will be collected at the final depth of excavation. Upon confirmation of remediation, SMA will submit a closure report to NMOCD.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All 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 Austr Wevant

Reviewed by:

Austin Weyant Project Scientist Shawna Chubbuck Senior Scientist

hauna Chubbuck

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 Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

FIGURE 1 VICINITY AND NMOSE DATA MAP

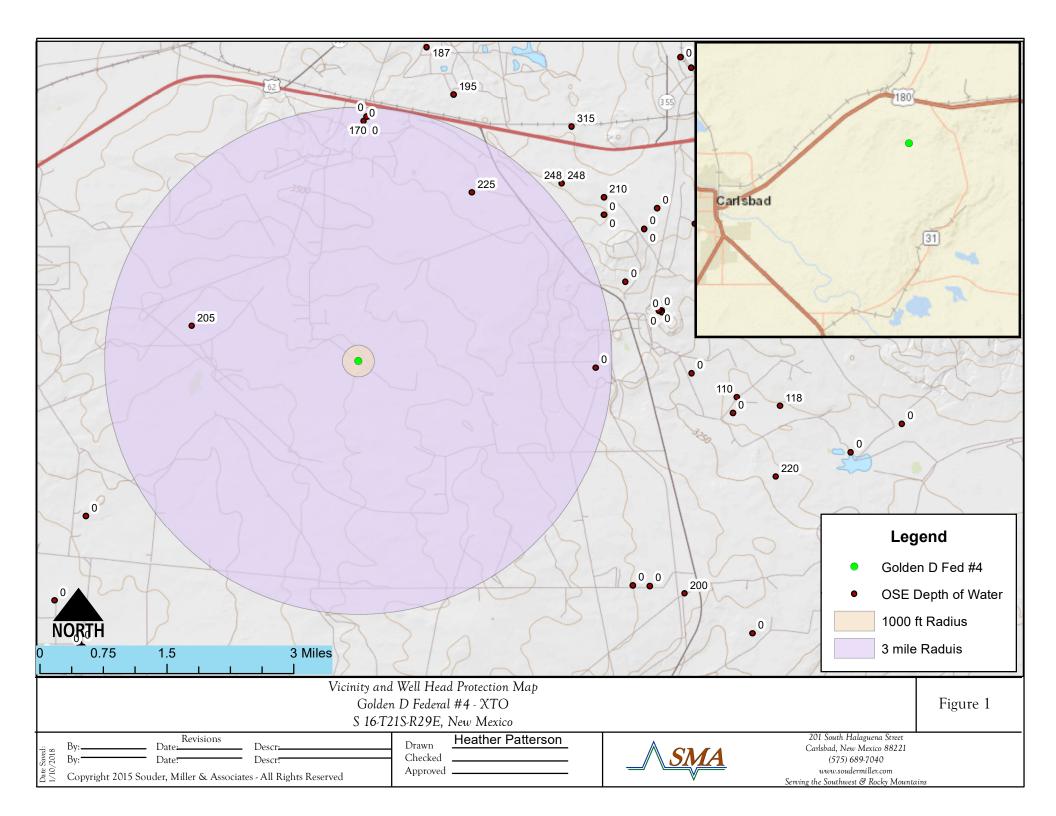


FIGURE 2 SITE AND SAMPLE LOCATION MAP



TABLE 3 SUMMARY SAMPLE RESULTS

Golden D Federal #004

Table 3.

Sample		5		BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
	NMOCD RRAL's for Site Ranking 0		50 mg/Kg	10 mg/Kg				5000 mg/Kg		
	12/21/2017	0.5	excavate	<0.24	<0.24	14	150	71	235	14000
L1	12/21/2017	1	excavate			-	-	-		7000
LI	1/15/2018	2	excavate			-				1700
	1/15/2018	3	excavate			-	-	-		940
	12/21/2017	0.5	excavate							8400
	12/21/2017	1	excavate							8700
L2	12/21/2017	2	excavate							4900
	1/15/2018	2.5	excavate			-	-	-		2500
	1/15/2018	3	excavate			-	-	-		800
	12/21/2017	0.5	excavate	-	-					7600
L3	12/21/2017	1	excavate			-		-	-	980
	12/21/2017	2	in-situ			-		-		380
	12/21/2017	0.5	excavate							7100
L4	12/21/2017	1	excavate							750
	12/21/2017	2	in-situ							460
BG1	12/21/2017	1	in-situ							<30

[&]quot;--" = Not Analyzed

APPENDIX A FORM C141 INITIAL

NM OIL CONSERVATION

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1000 Rio Brazos Road, Aztec, NM 87410

811 S. First St., Artesia, NM 88210

District III

District IV

ARTESIA DISTRICT

State of New Mexico

JAN 0 4 2018 Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. NM OIL CONSERVATION Form C-141 ARTESIA DISTRICT Revised April 3, 2017

Submit Cha to a peropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

1220 S. St. Francis Dr., Santa Fe, NM 87505 RECEIVED Santa Fe. NM 87505 Release Notification and Corrective Action NAR 18YY 936365 **OPERATOR** Final Report Name of Company: XTO Energy BOPCO Contact: Amy C. Ruth Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No: 432-661-0571 Facility Name: Golden D Federal #004 (location of well is on Facility Type: Exploration and Production Federal, location of release point is on NM State Land) Surface Owner: Federal Mineral Owner: Federal API No: 30-015-35636 Le above - release on Sie land + BLTT? LOCATION OF RELEASE Unit Letter Township Section Range Feet from the North/South Line Feet from the East/West Line County E **21S** 29E 1745 North 16 18 West Eddy Latitude 32.481906° Longitude -103.998092° NAD83 NATURE OF RELEASE Produced Water Type of Release Volume of Release 26 bbls Volume Recovered 0 bbls Source of Release Flow Line Date and Hour of Occurrence Date and Hour of Discovery 12/21/2017 time unknown 12/21/2017 9 am Was Immediate Notice Given? If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD), Shelly Tucker/Jim Amos (BLM) By Whom? Kyle Littrell Date and Hour: 12/21/2017 3:35 pm by email Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No N/A If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Steel surface flow line developed a leak due to a loose hammer union. The connection was tightened. Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 4,988 square feet of lease road running NW to SE on the northeast side of the Golden Lane 17 Federal #1 well pad. The release extended into NM State land at its east end across the road intersection. A remediation contractor has been contacted to assist with the delineation and remediation effort. 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** Signature Approved by Environmental Specialist: Printed Name: Amy Ruth Approval Date: Title: **Environmental** Coordinator Expiration Date: E-mail Address: Amy Ruth@xtoenergy.com 1/4/2018 Phone: 432-661-0571

APPENDIX B NMOSE WELLS REPORT



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

(NAD83 UTM in meters)

(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)

(In feet)

	POD Sub-		Q	a q							Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
<u>CP 00516</u>	CP	ED	4	4 4	12	21S	28E	590901	3594984* 🌕	3277	275	205	70
CP 00430	СР	ED	1	4 1	03	21S	29E	596221	3597558* 🌑	3874	360	225	135
CP 00419	CP	ED		4 3	32	20S	30E	594250	3599003*	4694	262	170	92

Average Depth to Water: 200 feet

Minimum Depth: 170 feet

Maximum Depth: 225 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 594108.67 Northing (Y): 3594310.44 Radius: 5000

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

January 05, 2018

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

TEL: (575) 689-7040

FAX

RE: Golden D4 Road OrderNo.: 1712E24

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/23/2017 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

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-001
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	14000	750	mg/Kg	500	1/3/2018 7:21:31 PM	35804
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	}			Analyst	TOM
Diesel Range Organics (DRO)	150	10	mg/Kg	1	12/28/2017 8:49:02 PM	35723
Motor Oil Range Organics (MRO)	71	51	mg/Kg	1	12/28/2017 8:49:02 PM	35723
Surr: DNOP	95.9	70-130	%Rec	1	12/28/2017 8:49:02 PM	35723
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	14	4.8	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Surr: BFB	123	15-316	%Rec	1	12/29/2017 1:57:50 AM	35711
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Benzene	ND	0.024	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Toluene	ND	0.048	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Ethylbenzene	ND	0.048	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Xylenes, Total	ND	0.097	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	12/29/2017 1:57:50 AM	35711

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-002
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	7000	300	mg/Kg	200 1/3/2018 7:33:56 PM	I 35804

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 1/5/2018

CLIENT: Souder, Miller & Associates Client Sample ID: L2-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-003
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	8400	750	mg/Kg	500 1/3/2018 7:46:21 PM	1 35804

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ature is out of limit as specified
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Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-004
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	8700	750	mg/Kg	500 1/3/2018 7:58:45 PM	1 35804

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 4 of 15 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 RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-2

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-005
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	4900	300	mg/Kg	200 1/3/2018 8:11:10 PM	1 35804

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-006
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	7600	750	mg/Kg	500 1/3/2018 8:23:34 PM	1 35804

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 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 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1712E24**

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-007
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: CJS
Chloride	980	30	mg/Kg	20	1/2/2018 8:03:05 PM	35804

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 7 of 15 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 RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order 1712E24

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-2

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-008
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	yst: CJS
Chloride	380	30	mg/Kg	20	1/2/2018 8:15:30 PM	1 35804

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-009
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	7100	750	mg/Kg	500 1/3/2018 8:35:59 PM	35804

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-010
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CJS
Chloride	750	30	mg/Kg	20	1/2/2018 8:40:19 PM	35804

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-2

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-011
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: CJS
Chloride	460	30	mg/Kg	20	1/2/2018 8:52:43 PM	35804

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 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 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712E24

05-Jan-18

Client: Souder, Miller & Associates

Project: Golden D4 Road

Sample ID MB-35804 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 35804 RunNo: 48126

Prep Date: 1/2/2018 Analysis Date: 1/2/2018 SeqNo: 1545516 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-35804 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 35804 RunNo: 48126

Prep Date: 1/2/2018 Analysis Date: 1/2/2018 SeqNo: 1545517 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 12 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712E24

05-Jan-18

Client: Souder, Miller & Associates

Project: Golden D4 Road

Sample ID LCS-35723 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

LCSS Client ID: Batch ID: 35723 RunNo: 48061

Analysis Date: 12/28/2017 SeqNo: 1540950 Prep Date: 12/27/2017 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 48 50.00 0 95.6 73.2 114

Surr: DNOP 5.000 87.5 4.4 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-35723 SampType: MBLK

Batch ID: 35723 Client ID: PBS RunNo: 48061

Prep Date: Analysis Date: 12/28/2017 SeqNo: 1540955 12/27/2017 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
- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1712E24

05-Jan-18

Client: Souder, Miller & Associates

Project: Golden D4 Road

Sample ID MB-35711 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 35711 RunNo: 48084

Analysis Date: 12/28/2017 Prep Date: 12/26/2017 SeqNo: 1541238 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 780 1000 77.6 15 316

TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-35711 SampType: LCS

Client ID: LCSS Batch ID: 35711 RunNo: 48084

Prep Date: Analysis Date: 12/28/2017 SeqNo: 1541239 12/26/2017 Units: mg/Kg

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

Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 75.9 131 980 1000 97.5 15 316 Surr: BFB

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1712E24**

05-Jan-18

Client: Souder, Miller & Associates

Project: Golden D4 Road

Sample ID MB-35711 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 35711 RunNo: 48084 12/26/2017 Prep Date: Analysis Date: 12/28/2017 SeqNo: 1541278 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.90 1.000 90.4 80 120

Sample ID LCS-35711	SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles												
Client ID: LCSS	Batcl	n ID: 35	711	F	RunNo: 4												
Prep Date: 12/26/2017	Analysis D)ate: 12	2/28/2017	S	SeqNo: 1	541279	Units: mg/k	(g									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Methyl tert-butyl ether (MTBE)	0.92	0.10	1.000	0	91.7	70.1	121										
Benzene	0.89	0.025	1.000	0	88.7	77.3	128										
Toluene	0.91	0.050	1.000	0	90.5	79.2	125										
Ethylbenzene	0.89	0.050	1.000	0	89.5	80.7	127										
Xylenes, Total	2.7	0.10	3.000	0	91.2	81.6	129										
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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

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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

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	ber: 1712E24		RcptNo:	1
Received By:	Andy Freeman	12/23/2017 8:30:00) AM	anlyl		
Completed By:	Michelle Garcia	12/26/2017 9:30:08	ВАМ	Mikell Ga	Nue)	
Reviewed By:	d_			• •		
Chain of Cust	<u>tody</u>					
1. Custody seal	ls intact on sample bottle	s?	Yes	No 🗌	Not Present 🗹	
2. Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the	sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	mpt made to cool the san	nples?	Yes 🗸	No 🗆	NA \square	
5. Were all sam	nples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sar	mple volume for indicated	test(s)?	Yes 🔽	No 🗌		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA =	
10.VOA vials ha	ve zero headspace?		Yes	No _	No VOA Vials ✓	
11. Were any sa	mple containers received	broken?	Yes 🗌	No 🔽	# of preserved	 · · · ·
10.5					bottles checked	
	ork match bottle labels? ancies on chain of custoo	dv)	Yes 🔽	No L	for pH: 	or >12 unless noted)
	correctly identified on Ch		Yes 🔽	No 🗀	Adjusted?	
14. Is it clear wha	at analyses were requeste	ed?	Yes 🗹	No 🗆		
	ing times able to be met?		Yes 🔽	No 🗌	Checked by:	
(ii no, nomy o		-,				
<u>Special Handl</u>	ing (if applicable)					
16. Was client no	tified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date	**************************************	Sau sousce much salved engoem, embeno estro étable lubrosise		
By Who	om:	Via:	eMail F	Phone 🗌 Fax	☐ In Person	
Regardi	- !					
	nstructions:				···	•••
17. Additional rer	marks:					
18. Cooler Infor	· .					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 	2.0 Good	Yes				



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

January 24, 2018

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

TEL: (575) 689-7040

FAX

RE: Golden Federal Road OrderNo.: 1801836

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/17/2018 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

DF Date Analyzed

Batch ID

Batch ID

Lab Order: 1801836

Hall Environmental Analysis Laboratory, Inc. Date Reported: 1/24/2018

CLIENT: Souder, Miller & Associates Lab Order: 1801836

Project: Golden Federal Road

Analyses

Lab ID: 1801836-001 **Collection Date:** 1/15/2018 10:08:00 AM

Client Sample ID: L1-2' Matrix: SOIL

Result

EPA METHOD 300.0: ANIONS Analyst: MRA Chloride 1700 75 mg/Kg 50 1/23/2018 7:56:47 PM 36110

PQL Qual Units

Lab ID: 1801836-002 **Collection Date:** 1/15/2018 10:47:00 AM

Client Sample ID: L1-3' Matrix: SOIL

Result

PQL Qual Units DF Date Analyzed **Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA 1/19/2018 4:10:35 PM Chloride 940 30 mg/Kg 36110

Lab ID: **Collection Date:** 1/15/2018 11:34:00 AM 1801836-003

Client Sample ID: L2-2.5' Matrix: SOIL

POL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 2500 75 50 1/23/2018 8:09:11 PM 36110 mg/Kg

Lab ID: 1801836-004 **Collection Date:** 1/15/2018 12:04:00 PM

Client Sample ID: L2-3' Matrix: SOIL

POL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 800 30 mg/Kg 1/19/2018 4:35:24 PM

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

Qualifiers: Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801836**

24-Jan-18

Client: Souder, Miller & Associates

Project: Golden Federal Road

Sample ID MB-36110 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36110 RunNo: 48569

Prep Date: 1/19/2018 Analysis Date: 1/19/2018 SeqNo: 1563719 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-36110 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36110 RunNo: 48569

Prep Date: 1/19/2018 Analysis Date: 1/19/2018 SeqNo: 1563721 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

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 2



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

SMA-CARLSBAD Client Name: Work Order Number: 1801836 RoptNo: 1 Received By: Isaiah Ortiz 1/17/2018 9:50:00 AM 1/17/2018 10:19:31 AM Completed By: Sophia Campuzano 1/17/18 Reviewed By: Ind Chain of Custody No 🗆 Not Present Yes 🗸 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗆 NA 🔲 Yes 🔽 No 🔲 NA 🗆 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 No 🗀 Sample(s) in proper container(s)? Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🛂 No 🗔 Yes 🗸 No 🗀 7. Are samples (except VOA and ONG) properly preserved? No 🔽 NA 🗆 Yes 🗌 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 🗹 9. VOA vials have zero headspace? Yes 🗆 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No L for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗀 Yes 🗸 No 13, Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🔲 NA 🔽 15. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 0.6 Good

	HALL ENVIRONMENTAL	AINALISIS LABORALORY	m .	nbnaw -	345-5975 Fax 505-345-410/	Alidiyais hequest		s'to	d'²	0753 ON.4 (000)	00 8 10 8 10 9 9 9 9 9 9 9 9 9	10 (O) (A) (A)	EDB (Mett PAH's (83 Anions (F) 3081 Pesti 3250 (VC	33		\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
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of-Cu	9- 6		1000					5		□ Other			Matrix	1.03	1.0	4	4			1		Relinquished by	7	é
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O	Client:		Mailing		Phone #		email or Fax#:	OA/OC Packa	S C C C C C C C C C C C C C C C C C C C	□ NELAP	□ EDD (Type)		Date	8/51/10		и	1.1				Q	Date:		Date:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845-3975 Fax 505-345-4107 Analysis Request		8081 Pesticides 8260B (VOA) AOV-ime2) 0728														
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