

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Robert Dunaway Title: Senior Environmental Engineer
Signature:  Date: 2/8/23
email: rhodunaway@eprod.com Telephone: 575-628-6802

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____

Date: _____

Printed Name: _____

Title: _____

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Incident ID	NAPP2226085276
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Printed Name: Robert Dunaway Title: Senior Environmental Engineer
Signature:  Date: 2/8/23
email: rhunaway@eprod.com Telephone: 575-628-6802

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2226085276
District RP	
Facility ID	
Application ID	

OCD OnlyReceived by: Robert HamletDate: 6/12/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 6/12/2023Printed Name: Robert HamletTitle: Environmental Specialist - Advanced



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

February 6, 2023

#5E31002-BG23

NMOCD District 2
811 S. First St.
Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Line A-18 Pipeline Release (nAPP2226085276), Eddy County, New Mexico

1.0 Executive Summary

On behalf of Enterprise Field Services LLC (Enterprise), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a natural gas and condensate release related to gas gathering activities at the Line A-18 Pipeline Release (nAPP2226085276). The release site is located in Unit N, Section 04, Township 21S, Range 26E, Eddy County, New Mexico, on public land administered by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

This report demonstrates that the release area has been remediated to meet the standards of Table I of 19.15.29.12 New Mexico Administrative Code (NMAC). The information provided in this report is intended to fulfill final New Mexico Oil Conservation Division (NMOCD) closure requirements.

The gas portion of this release constitutes venting that occurred during an emergency or malfunction, as authorized by NMOCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.

SMA recommends no further action and requests that the release associated with the Line A-18 Pipeline Release (nAPP2226085276) be closed.

Table 1: Release Information and Closure Criteria

Name	Line A-18 Pipeline Release	Company	Enterprise Field Services LLC
API Number	N/A	Location	32.5025556, -104.30111
Incident Number	nAPP2226085276	Date Release Discovered	September 17, 2022
Land Status	Federal (BLM)	Reported To	NMOCD District II
Source of Release	Leak on a gathering pipeline		
Nature and Volume of Release	1.0 bbl Condensate 1,141 Mcf Natural Gas	Volume Recovered	0 bbl Condensate 0 Mcf Natural Gas
NMOCD Closure Criteria	<50 feet per Table 1 of 19.15.29.12 NMAC		
SMA Response Dates	November 4 and 11, 2022 and December 5 and 13, 2022		

Line A-18 Release Closure Report
February 6, 2023

Page 2 of 4

2.0 Background

On September 17, 2022, a natural gas and condensate release was discovered at the Line A-18 Pipeline Release site. Initial response activities were conducted by Enterprise, and included source elimination and site security, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The initial C-141 form is included in Appendix A.

3.0 Site Information and Closure Criteria

The Line A-18 Pipeline Release site is located approximately 4 miles northwest of Carlsbad, New Mexico on public land administered by the BLM at an elevation of approximately 3,211 feet above mean sea level (amsl).

Depth to Groundwater and Wellhead Protection Area

A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System reported no wells within a ½-mile of the site (Appendix B).

Distance to Nearest Significant Watercourse

The nearest significant watercourse appears to be a playa located approximately 1,825 feet to the south. The next nearest significant watercourse is the Pecos River located approximately 5,387 feet to the northeast.

Closure Criteria

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC due to the presence of a high karst system.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet below grade surface (bgs).

4.0 Release Characterization and Remediation Activities

On November 4, 2022, following pipeline repair and excavation activities, SMA personnel performed closure confirmation sampling.

Twenty (20) composite confirmation samples were collected from the excavation for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Excavation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix C.

Based on laboratory analytical results indicating sample areas in exceedance of the NMOCD closure criteria, additional excavation and sampling was conducted on November 21, December 5, and December 13, 2022. Five (5) additional composite confirmation samples were collected and analyzed as above.

The final remediation excavation measured approximately 50 feet by 19 feet with depths ranging from 17 to 20 feet.

Copies of confirmation sampling notifications are included in Appendix A. Excavation extents and closure confirmation sample locations are depicted on Figure 3. Field notes and a photo log are included in Appendix D. Confirmation laboratory results are summarized in Table 3. Laboratory reports are included in Appendix E.

Line A-18 Release Closure Report
February 6, 2023

Page 3 of 4

5.0 Recommendations

As demonstrated in Table 3, all closure confirmation samples meet NMOCD Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Excavated soils were removed and replaced with clean backfill material to return the surface to previous contours. All excavated soil was transported and disposed of at Lea Land LLC, Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number nAPP2226085276.


6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. 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 Heather Woods at (505) 325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Georgeann Goodman
Environmental Tech II



Heather M. Woods, P.G.
Project Geoscientist

Line A-18 Release Closure Report
February 6, 2023

Page 4 of 4

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 2/6/2023

USGS National Water Information System: Web Interface online water well database
https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html; accessed 2/6/2023

ATTACHMENTS:

Figures:

Figure 1: Topographic Site Map
Figure 2: Aerial Site Map
Figure 3: Site and Sample Location Map

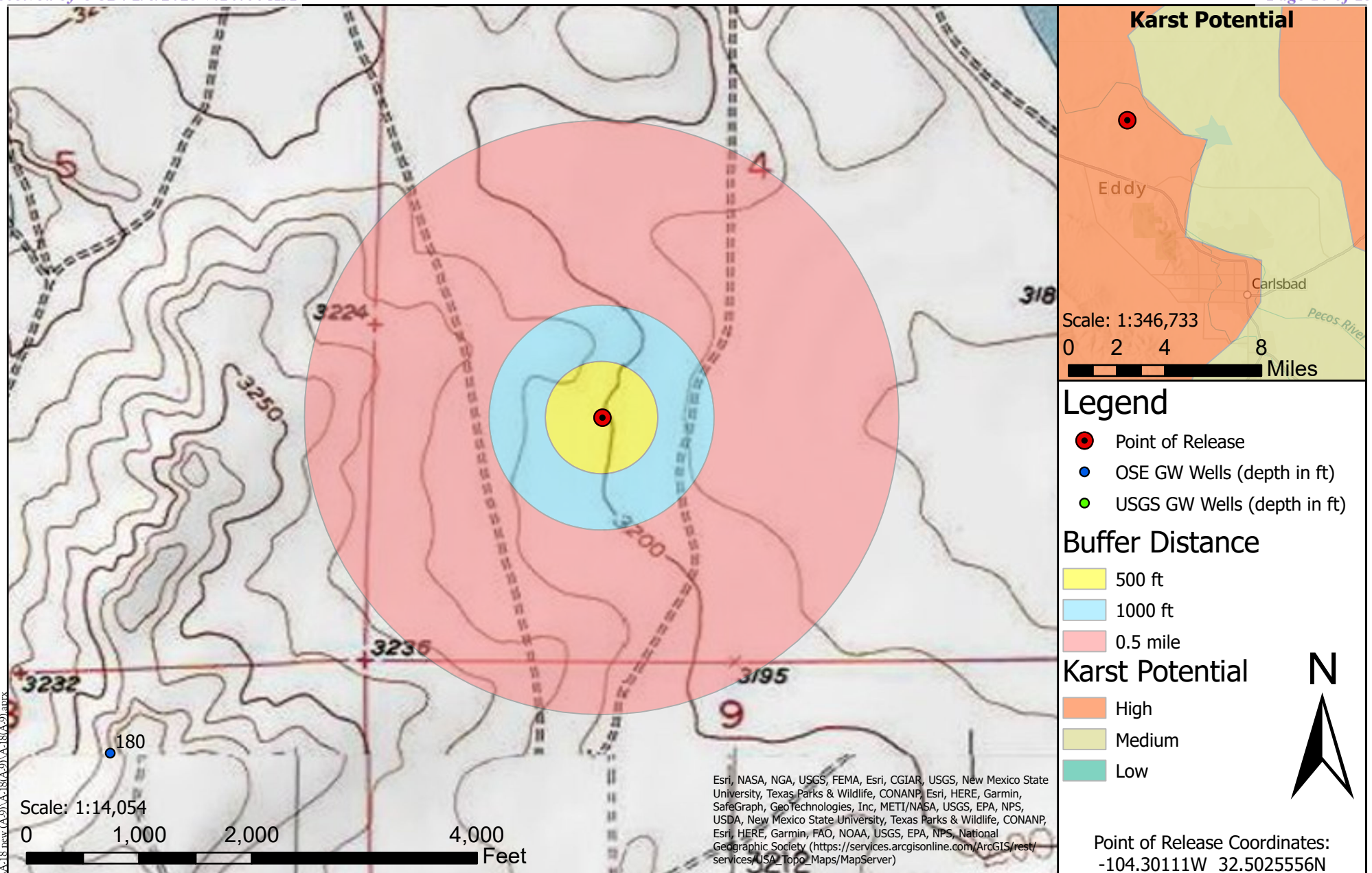
Tables:

Table 2: NMOCD Closure Criteria
Table 3: Summary of Laboratory Analytical Results

Appendices:

Appendix A: Form C-141 and Correspondence
Appendix B: Water Well Data
Appendix C: Sampling Protocol
Appendix D: Field Notes and Photo Log
Appendix E: Laboratory Analytical Reports

FIGURES



Topographic Site Map
North A-18 Pipeline Release - Enterprise Field Services, LLC
UL: N S: 04 T: 21S R: 26E, Eddy County, New Mexico

Figure 1

Revisions

By:	Date:	Descr:
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn
Date
Checked
Approved

Sarahmay Schlea
11/16/2022



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Carlsbad, New Mexico 88221
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Legend

- Point of Release
- Streams/Canals/Flowlines
- FEMA Flood Zones
- 0.5 Mile Radius
- 300 Foot Radius

0 500 1,000 2,000
 Feet
 Scale: 1:14,054



Point of Release Coordinates:
 -104.30111W 32.502556N

Aerial Site Map

North A-18 Pipeline Release - Enterprise Field Services, LLC
 UL: N S: 04 T: 21S R: 26E, Eddy County, New Mexico

Figure 2

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

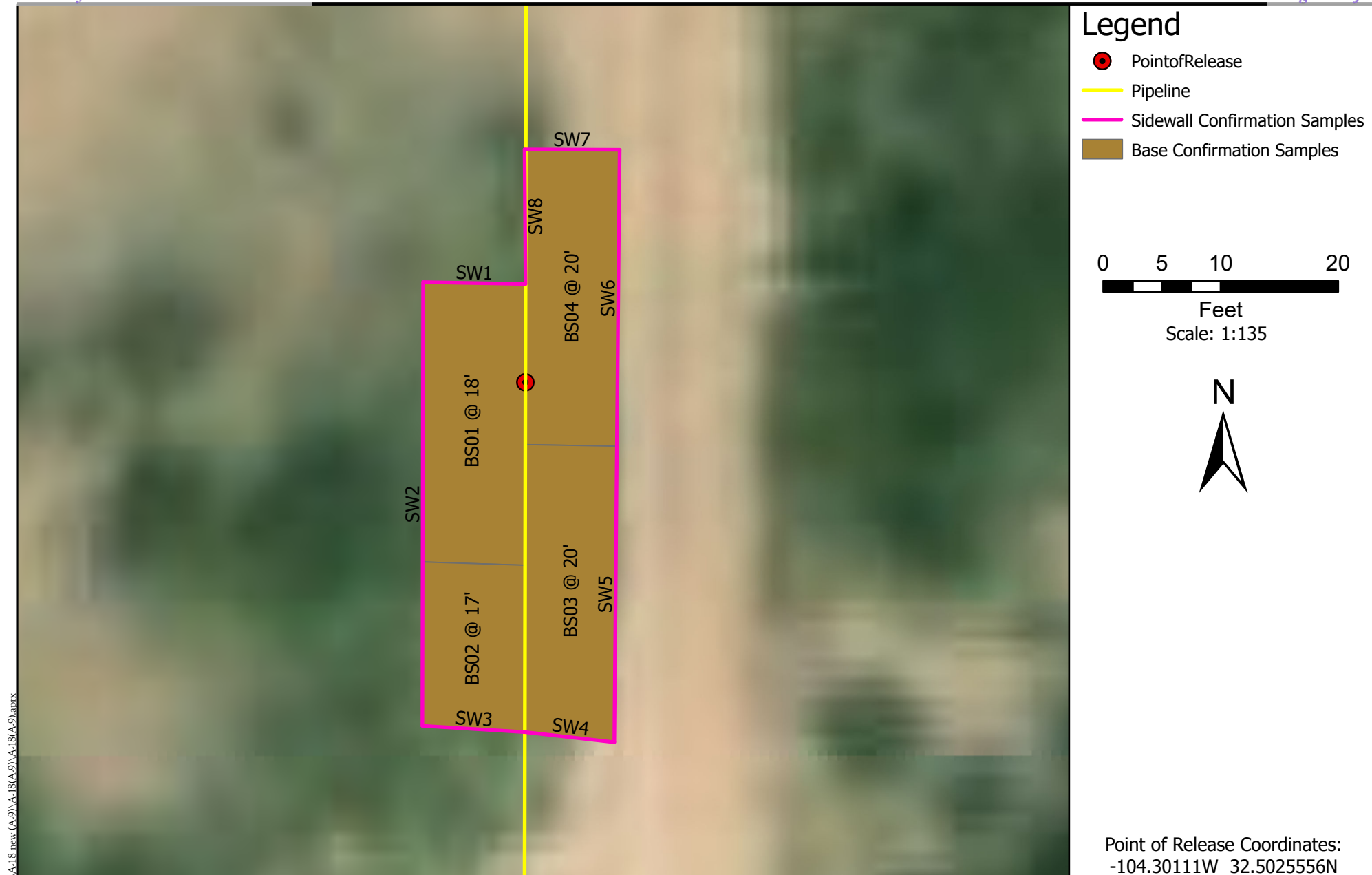
Drawn
 Date
 Checked
 Approved

Sarahmay Schlea
 11/2/2022



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Site and Sample Location Map
North A-18 Pipeline Release - Enterprise Field Services, LLC
UL: N S: 04 T: 21S R: 26E, Eddy County, New Mexico

Figure 3

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn
Date
Checked
Approved

Sarahmay Schlea

2/6/2023



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Carlsbad, New Mexico 88221
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TABLES

Table 2:
NMOCD Closure CriteriaEnterprise Field Services
Line A-18
nAPP2226085276

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	No Data	NMOSE and USGS Water Well Data
Horizontal Distance From All Water Sources Within 1/2 Mile	>0.5mi	NMOSE and USGS Water Well Data
Horizontal Distance to Nearest Significant Watercourse (ft)	1,825	USGS 7.5-minute Quadrangle Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	no	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	no					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	no					
<1000' from fresh water well or spring?	no					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
<100' from wetland?	no					
within area overlying a subsurface mine	no					
within an unstable area?	yes (karst)					
within a 100-year floodplain?	no					



Table 3:
Summary of Laboratory Analytical Results

Enterprise Field Services

Line A-18

nAPP2226085276

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			50	10	--	--	--	100	600
Excavation Confirmation Samples									
BS01	11/21/2022	18	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	189
BS02	11/4/2022	17	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	95.4
BS03	11/4/2022	20	<0.100	<0.0250	<20.0	91.2	<50.0	91.2	489
BS04	11/4/2022	20	<0.100	<0.0250	<20.0	26.3	<50.0	26.3	239
SW1	11/4/2022	0 to 17	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	593
SW02	11/21/2022	0 to 6	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	123
	12/5/2022	6 to 12	<0.100	<0.250	<20.0	<25.0	<50.0	<95.0	<20.0
	11/4/2022	12 to 17	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	39.5
SW3	11/4/2022	0 to 8.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	32.7
		8.5 to 17	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	389
SW4	11/4/2022	0 to 20	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	38.6
SW5	11/4/2022	0 to 6.5	0.109	<0.0250	<20.0	27.7	<50.0	27.7	29.8
	12/13/2022	6.5 to 13	<0.100	<0.250	<20.0	<25.0	<50.0	<95.0	<20.0
	11/21/2022	13 to 20	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW6	11/4/2022	0 to 6.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
		6.5 to 13	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
		13 to 20	<0.100	<0.0250	26.3	16.1	<50.0	42.4	573
SW7	11/4/2022	0 to 20	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	74.1
SW8	11/4/2022	0 to 10	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
		10 to 20	<0.100	<0.0250	<20.0	58.2	<50.0	58.2	<20.0
Sample Areas Removed by Excavation									
BS01	11/4/2022	17	<0.100	<0.0250	<20.0	25.0	<50.0	25.0	841
SW02	11/4/2022	0 to 6	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	2,100
		6 to 12	<0.100	<0.0250	<20.0	101	<50.0	101	294
SW05	11/4/2022	6.5-13	<0.100	<0.0250	<20.0	389	<50.0	389	327
		13-20	32.9	0.285	1,050	1,750	89.5	2,890	23.9

Notes:

NMOCD - New Mexico Oil Conservation Division

BTEX - benzene, toluene, ethylbenzene, and xylenes

GRO - gasoline range organics

DRO - diesel range organics

MRO - motor oil range organics

TPH - total petroleum hydrocarbons

bgs - below grade surface

mg/kg - milligram per kilogram

"--" not applicable or not analyzed



APPENDIX A

FORM C-141 AND

CORRESPONDENCE

District I
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Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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District RP	
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Application ID	

Release Notification

Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2226085276
Contact mailing address	PO Box 4324, Houston, TX 77210		

Location of Release Source

Latitude 32.5025556 Longitude -104.30111
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Line A-18	Site Type	Gathering Pipeline
Date Release Discovered	9/17/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
N	04	21S	26E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 1	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 1141	Volume Recovered (Mcf) -0-
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Found a leak on a gathering pipeline, cause is to be determined. The gas portion of this release constitutes venting that occurs during an emergency or malfunction, as authorized by NMOCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.

Incident ID	NAPP2226085276
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Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?

Gas release > 500 mscf

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Robert Dunaway, OCD Portal, 9/17/2022 NOR via OCD Portal

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Robert Dunaway

Title: Senior Environmental Engineer

Signature: 

Date: 9/19/22

email: rdunaway@eprod.com

Telephone: 575-628-6802

OCD Only

Received by: Jocelyn Harimon

Date: 09/19/2022

Diameter of hole (inches)	0.025	
Line Pressure at Leak	846	Hourly Bas
Volume of Gas Leaked	0.54	0.54

Calculations:

Volume of Gas Leaked (MSCF) = Diameter*Diameter*(Upstream Gauge Pressu

**Reference: Pipeline Rules of Thumb Handbook, 3rd Edition, McAllister. Page

Footage of Pipe blowdown	32,736	
Initial line pressure	548	
Diameter of Pipe (inches)	12	
Volume of Gas Blown Down	1140.31692	MSCF

Calculations:

Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (ft3)*(Gau
/(1000 scf/mscf)*Standard Pressure (14.7psi)*Temperature(F)*Z Factor

Volume at pipeline conditions (scf) = Diameter/12 (ft)*Diameter/12 (ft)*PI/4*Len

**Reference: Gas Pipeline Hydraulics, Menon (2005) Pages 132-134. Assuming

District I
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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 144346

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 144346
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/19/2022

From: [Hamlet, Robert, EMNRD](#)
To: [Dunaway, Robert](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: [EXTERNAL] RE: (Extension Approval) NAPP2226085276 LINE A-18 @ N-04-21S-26E ON OE
Date: Monday, December 12, 2022 3:23:36 PM

[Use caution with links/attachments]

Oops! Actually, let's make that for next year February 14th, 2023.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Hamlet, Robert, EMNRD

Sent: Monday, December 12, 2022 3:21 PM

To: Dunaway, Robert <rhodunaway@eprod.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Subject: (Extension Approval) NAPP2226085276 LINE A-18 @ N-04-21S-26E ON OE

RE: Incident #**NAPP2226085276**

Robert,

Your request for an extension to **February 14th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, December 12, 2022 2:14 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] 60 Extension Request for nAPP2226085276

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Dunaway, Robert <rhodunaway@eprod.com>
Sent: Monday, December 12, 2022 12:39 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] 60 Extension Request for nAPP2226085276

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Enterprise Field Services requests a 60 day extension for nAPP2226085276 (Line A-18) due to the holidays, illness, and unexpected additional sampling. Enterprise requests February 14, 2023 as the due day for the final report.



Robert Dunaway
Senior Environmental Engineer
W: 575-628-6802
C: 361-815-0990
rhodunaway@eprod.com

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purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

Heather Woods

From: Heather Woods
Sent: Friday, November 4, 2022 4:21 PM
To: Hamlet, Robert, EMNRD
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: Re: [EXTERNAL] Request for Variance: Confirmation Sampling Notification A-18 Lateral (nApp2226085276)

My apologies Mr. Hamlet. Our original notification was for sampling yesterday, November 3rd but we were not ready to collect the final confirmation samples until today, November 4th. I was hoping the extend our original notification into today so that we could complete field operations.

Thanks, Heather

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, November 4, 2022 3:26 PM
To: Heather Woods <Heather.Woods@soudermiller.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Request for Variance: Confirmation Sampling Notification A-18 Lateral (nApp2226085276)

19.15.29 NMAC requires notification two business days prior to obtaining confirmation samples. Field delays usually delay sampling events, not pull them forward. Can you give us a quick explanation of what caused SMA to miss the notification?

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, November 4, 2022 2:39 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Request for Variance: Confirmation Sampling Notification A-18 Lateral (nApp2226085276)

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Heather Woods <Heather.Woods@soudermiller.com>
Sent: Friday, November 4, 2022 10:19 AM
To: Sarahmay Schlea <sarahmay.schlea@soudermiller.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: rhduaway@eprod.com; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] Request for Variance: Confirmation Sampling Notification A-18 Lateral (nApp2226085276)

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

Good Morning,

Souder, Miller & Associates would like to request a variance for sampling notification for the Enterprise A-18 release (nApp2226085276) located at 32.5025556, -104.30111. Due to unexpected field delays we will be prepared to collect confirmation samples today, Friday, November 4th beginning at 11am. Please let us know if the request is accepted.

Many Thanks,
Heather Woods

Souder, Miller & Associates
Heather.Woods@SouderMiller.com
(505) 716-2787

From: Sarahmay Schlea <sarahmay.schlea@soudermiller.com>
Sent: Tuesday, November 1, 2022 4:24 PM
To: Enviro, OCD, EMNRD <ocd.enviro@state.nm.us>
Cc: rhduaway@eprod.com <rhduaway@eprod.com>; Heather Woods <Heather.Woods@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: Confirmation Sampling Notification A-18 Lateral (nApp2226085276)

Good afternoon,

Souder, Miller & Associates will be onsite to collect confirmation samples at the Enterprise A-18 release (nApp2226085276) located at 32.5025556, -104.30111 on Thursday, November 3rd beginning at 10am.

Many Thanks,

Stronger Communities by Design

www.soudermiller.com

Sarahmay Schlea

Staff Scientist I
(she/her)

Direct/Mobile: 330-958-5689

Office: 575-449-2758

201 S Halagueno St
Carlsbad, NM 88220

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

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Heather Woods

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, November 17, 2022 1:13 PM
To: Sarahmay Schlea
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Confirmation Sampling Notification - Enterprise A-18 (nAPP2226085276)

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Sarahmay Schlea <sarahmay.schlea@soudermiller.com>
Sent: Thursday, November 17, 2022 11:40 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Heather Woods <Heather.Woods@soudermiller.com>; rhdunaway@eprod.com; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] Confirmation Sampling Notification - Enterprise A-18 (nAPP2226085276)

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Good Morning,

Souder, Miller & Associates will be onsite to collect confirmation samples at the Enterprise A-18 release (nAPP2226085276) located at 32.5025556, -104.30111 on Monday, November 21st beginning at 11am.

Thank you,
Sarahmay



Sarahmay Schlea
Staff Scientist I
(she/her)

Direct/Mobile: 330-958-5689
Office: 575-449-2758

Stronger Communities by Design

201 S Halagueno St
Carlsbad, NM 88220



www.soudermiller.com

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

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Heather Woods

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, November 30, 2022 1:26 PM
To: Heather Woods
Cc: Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Confirmation Sampling Notification A-18 Lateral (nAPP2226085276)

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

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Heather Woods <Heather.Woods@soudermiller.com>
Sent: Wednesday, November 30, 2022 1:04 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: rhdunaway@eprod.com; Sarahmay Schlea <sarahmay.schlea@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] Confirmation Sampling Notification A-18 Lateral (nAPP2226085276)

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Good Afternoon,

Souder, Miller & Associates will be onsite to collect confirmation samples at the Enterprise A-18 release (nAPP2226085276) located at 32.5025556, -104.30111, on Monday, December 5th beginning at 7:30am.

Many Thanks,
Heather Woods

Heather Woods, P.G.
Project Geoscientist

Personal Registrations: UT Professional Geologist
Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates

Engineering ♦ Environmental ♦ Geomatics

401 West Broadway

Farmington, NM 87401

(505) 716-2787 (mobile)

(505) 325-7535 (office)

Heather.Woods@soudermiller.com

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Heather Woods

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, December 8, 2022 2:01 PM
To: Heather Woods
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Confirmation Sampling Notification A-18 Lateral (nAPP2226085276)

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

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Heather Woods <Heather.Woods@soudermiller.com>
Sent: Thursday, December 8, 2022 1:45 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: rhdunaway@eprod.com; Sarahmay Schlea <sarahmay.schlea@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] Confirmation Sampling Notification A-18 Lateral (nAPP2226085276)

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Good Afternoon,

Souder, Miller & Associates will be onsite to collect confirmation samples at the Enterprise A-18 release (nAPP2226085276) located at 32.5025556, -104.30111, on Tuesday, December 13th beginning at 7:30am.

Many Thanks,
Heather Woods

Heather Woods, P.G.
Project Geoscientist

Personal Registrations: UT Professional Geologist
Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates

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APPENDIX B

WATER WELL DATA

OSE POD Locations Map



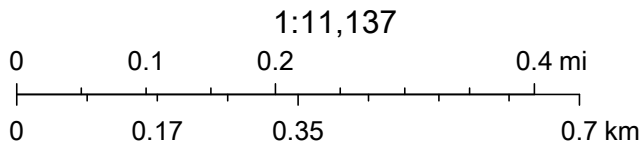
2/6/2023, 2:48:17 PM

GIS WATERS PODs

- Capped
- Active
- Pending

- OSE District Boundary

- New Mexico State Trust Lands
- Both Estates
- SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



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)

POD														
		Sub-	Q Q Q									Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
C 00524		C	ED	1	4	4	08	21S	26E	564833	3594964*		175	
C 01023		C	ED		2	1	03	21S	26E	567363	3597716*		175	
C 01501		C	ED		2	3	03	21S	26E	567355	3596917*		270	140 130
C 01543		C	ED	4	4	1	09	21S	26E	565837	3595576*		225	150 75
C 01859		C	ED		3	4	08	21S	26E	564531	3594862*		201	165 36
C 01878		C	ED				08	21S	26E	564327	3595459*		245	165 80
C 01927		C	ED	3	4	3	08	21S	26E	564026	3594758*		270	165 105
C 01937		C	ED			4	08	21S	26E	564732	3595063*		256	190 66
C 01958		C	ED		4	4	08	21S	26E	564934	3594865*		180	155 25
C 01991		C	ED	2	2	3	08	21S	26E	564226	3595362*		235	160 75
C 02046		C	ED			4	08	21S	26E	564732	3595063*		220	160 60
C 02077		C	ED	3	4	3	08	21S	26E	564026	3594758*		227	185 42
C 02157		C	ED			4	08	21S	26E	564732	3595063*		218	150 68
C 02162		C	ED		4	4	08	21S	26E	564934	3594865*		202	150 52
C 02172		C	ED		4	4	08	21S	26E	564934	3594865*		200	150 50
C 02188		C	ED			3	08	21S	26E	563925	3595057*		182	155 27
C 02228		C	ED			3	08	21S	26E	563925	3595057*		250	168 82
C 02237		C	ED			4	08	21S	26E	564732	3595063*		232	
C 02301		C	ED		1	3	08	21S	26E	563724	3595260*		240	160 80
C 02361		C	ED	2	4	3	08	21S	26E	564226	3594958*		250	150 100
C 02396		C	ED	1	3	4	08	21S	26E	564430	3594961*		207	80 127
C 02427		C	ED	2	2	4	08	21S	26E	565031	3595367*		250	200 50
C 02427 POD2		C	ED	2	2	4	08	21S	26E	565031	3595367*		252	225 27
C 02427 POD3		C	ED	2	2	4	08	21S	26E	565031	3595367*		200	160 40
C 02443		C	ED	1	4	3	08	21S	26E	564026	3594958*		278	178 100
C 02490		C	ED	3	1	4	08	21S	26E	564430	3595164*		235	160 75

*UTM location was derived from PLSS - see Help












(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)

POD Number	POD Sub- Code	basin	County	Q Q Q						X	Y	Depth Well	Depth Water	Water Column	
				64	16	4	Sec	Tws	Rng						
C 02498	C	ED					08	21S	26E	564327	3595459*		274	184	90
C 02577	C	ED	3	2	4	08	21S	26E	564831	3595167*		196	160	36	
C 02611	C	ED	2	2	3	08	21S	26E	564226	3595362*		250	215	35	
C 02615	C	ED		2	3	10	21S	26E	567367	3595290*		404	115	289	
C 02616	C	ED		4	3	08	21S	26E	564127	3594859*		250	180	70	
C 02620	C	ED	4	3	2	08	21S	26E	564630	3595567*		203	152	51	
C 02650	C	ED	4	3	4	08	21S	26E	564630	3594761*		260	190	70	
C 02659	C	ED	1	2	4	08	21S	26E	564831	3595367*		250	170	80	
C 02681	C	ED		3	2	08	21S	26E	564531	3595668*		200	160	40	
C 02893	C	ED	3	3	1	08	21S	26E	563623	3595563*		225	175	50	
C 03042	C	ED	1	2	4	08	21S	26E	564831	3595367*		215	170	45	
C 03069	C	ED	3	4	2	09	21S	26E	566452	3595583*		250	165	85	
C 03077	C	ED				08	21S	26E	564327	3595459*		300	100	200	
C 03229	C	ED		1	2	08	21S	26E	564531	3596074*		200	180	20	
C 03317	C	ED	2	2	4	08	21S	26E	563973	3595048		216	149	67	
C 03329	C	ED	1	1	4	08	21S	26E	563570	3594641		277	196	81	
C 03342	C	ED	4	2	3	08	21S	26E	564197	3595295		211	161	50	
C 03343	C	ED	4	3	3	08	21S	26E	564412	3594797		219	171	48	
C 03357	C	ED	1	3	2	08	21S	26E	564456	3595703		204	161	43	
C 03407 POD1	C	ED	4	4	3	08	21S	26E	564274	3594682		198	179	19	
C 03408 POD1	C	ED	4	3	4	08	21S	26E	564684	3594765		253	242	11	
C 03438 POD1	C	ED	4	2	3	08	21S	26E	564184	3595132		250	178	72	
C 03465 POD1	C	ED	4	1	1	08	21S	26E	563912	3595898		158	125	33	
C 03538 POD1	C	ED	1	4	3	08	21S	26E	564025	3594884		300			
C 03739 POD1	C	ED	4	3	4	08	21S	26E	564644	3594836		300	110	190	
C 03745 POD1	C	ED	1	4	3	08	21S	26E	564023	3594875		280	162	118	
C 04261 POD1	C	ED	1	2	1	08	21S	26E	563936	3596108		200	78	122	
C 04280 POD1	C	ED	3	2	1	08	21S	26E	563943	3595881		158	130	28	
C 04305 POD1	C	ED	4	1	4	08	21S	26E	564606	3595092		220	180	40	

*UTM location was derived from PLSS - see Help







(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)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 04319 POD1	C	ED	4	2	1	08	21S	26E	564292	3596062		217	210	7
C 04342 POD1	C	ED	4	1	1	08	21S	26E	563896	3595887		160	120	40
C 04343 POD1	C	ED	3	3	2	08	21S	26E	564423	3595505		220	125	95
C 04347 POD1	C	ED	4	1	1	08	21S	26E	563888	3595915		160	120	40
C 04482 POD1	C	ED	2	2	4	08	21S	26E	565032	3595454		200	40	160
C 04697 POD1	C	ED	2	3	4	08	21S	26E	564653	3595032		200		

Average Depth to Water: **158 feet**

Minimum Depth: **40 feet**

Maximum Depth: **242 feet**

Record Count: 61

PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10 Township: 21S Range: 26E

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.

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Atlantic Rickfield Company Owner's Well No. State BQ-B#1
Street or Post Office Address P.O. Box 1710
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7217 C-1543 and is located in the:

SW a. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 9 Township 21S Range 26E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46Address P.O. Box 637, Hobbs, New MexicoDrilling Began 5/7/74 Completed 5/9/74 Type tools Cable Size of hole 8 $\frac{1}{2}$ " in.Elevation of land surface or _____ at well is _____ ft. Total depth of well 225 ft.Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 150 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
150	225	75	Brown sand	50

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	23	10	0	225	225	NONE	150	225

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					Cemented at top.

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. C-1543 Use OWD Location No. 21.26.9.14443

[illegible]

1974 MAY 15 AM 8:28
STATE ENGINEER OFFICE
DISTRICT II
ROSELLE, N. MEX.

Murrell Abbott
Driller

drilled, repaired or deepened. When this for

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Doug Crigger Owner's Well No. _____
Street or Post Office Address 10 Yben Rd.
City and State Southampton, MA 01073

Well was drilled under Permit No. C-3229 and is located in the:
a. NE $\frac{1}{4}$ NW $\frac{1}{4}$ $\frac{1}{4}$ of Section 8 Township 21S Range 26E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 9-2-05 Completed 9-8-05 Type tools Rotary Size of hole 8 $\frac{3}{4}$ in.
Elevation of land surface or _____ at well is 3290 ft. Total depth of well 200 ft.
Completed well is ☐ shallow ☒ artesian. Depth to water upon completion of well 180 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
180	200	20	Sandstone	Less than 1

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor Taylor Water Well Service
Address 7317 Etcheverry Rd., Carlsbad, NM
Plugging Method Tremie
Date Well Plugged 1-24-06
Plugging approved by: _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0	200	55 Sacks
2			
3			
4			

State Engineer Representative

Date Received 1-23-06 FOR USE OF STATE ENGINEER ONLY 340498
Quad _____ FWL _____ FSL _____
File No. C-3229 Use Dom Location No. 21S 26E 8.12

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

340498

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

APPENDIX C

SAMPLING PROTOCOL



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Laboratory in Farmington, New Mexico for analysis. Samples collected for laboratory analysis were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured courier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D FIELD NOTES AND PHOTO LOG



FIELD SCREENING

LOCATION NAME: <u>Enterprise A-13</u>					SAMPLING DATE: <u>November 4, 2022</u>	
SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
SW1	1200					
SW2 @ 0-10.5	1205					these depths are wrong due to an error when looking at a hand drawn map. SW2 is only 17' deep. therefore these depths should be 0-6', 6-12', and 12-17'. the length of SW2 is 32' hence the mixup.
SW2 @ 10.5-21	1210					
SW2 @ 21-32	1215					
SW3 @ 0-6.5	1220					Since SW3 is 17ft deep like SW2, and 13ft wide these depths are wrong again. they should be @ 0-8.5 and 8.5-17
SW3 @ 6.5-13	1225					
SW4	1230					
SW5 @ 0-6.5	1235					
SW5 @ 6.5-13	1240					
SW5 @ 13-20	1245					
SW6 @ 0-6.5	1250					
SW6 @ 6.5-13	1255					
SW6 @ 13-20	1300					
SW7	1305					
BS01	1310					
BS02	1315					
BS03	1320					
BS04	1325					
SW8 @ 0-10	1330					
SW8 @ 10-20	1335					

soil color: light, dark, tan, brown, yellow, red, olive, gray

soil type: gravel, rock, sand, silty, clay

moisture level: dry, moist, wet

20 rows/sheet



SAMPLING DATE: December 5, 2022

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
moisture level: dry, moist, wet

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #1	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: October 19, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing north by northwest, view of the main excavation area.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #2	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: October 19, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing north by northwest, view of the main excavation area.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #3	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: October 19, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing north by northwest, view of the main excavation area.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #4	 <p>UTC: 2022.11.04T19:13:03Z Lat, Lon: 32.50682, -104.301117 Alt: 950.8m MSL WGS84 CEP: 4m</p> <p>Azimuth and Bearing 347° N77W</p> <p>0° -1.6° -5°</p> <p>-30° -15° 0°</p> <p>NW</p>
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 4, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing north by northwest, view of confirmation samples SW2, BS01, SW1, SW5, SW6, SW7, and BS04.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #5	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 4, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing north by northwest, view of confirmation samples SW2, SW1, BS04, and BS03.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #6	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 4, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing south, view of confirmation samples SW8, SW4, and BS03.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #7	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 4, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Facing south, view of confirmation samples SW3, SW4, SW5, and SW6.


Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #8	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 4, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	<p>UTC: 2022.11.04T19:13:50Z Lat, Lon: 32.506983, -104.301113 Alt: 951.7m MSL WGS84 CEP: 4m</p> <p>Azimuth and Bearing 153° S62E</p> <p>0° -1.6° -5°</p> <p>45° 30° -23.0° -15°</p> <p>SE S</p> <p>Description: Facing south by southeast, view of confirmation samples SW3, SW5, and BS02.</p>

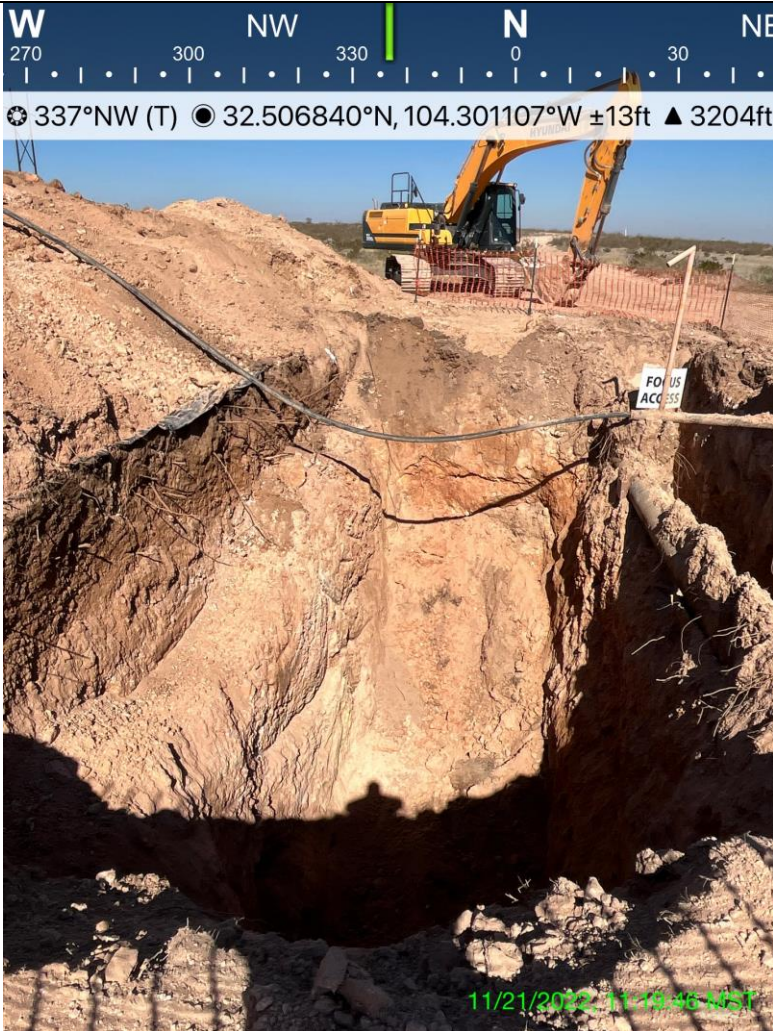
Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #9	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north by northwest, view of confirmation samples SW5, BS04, SW7, and BS03.

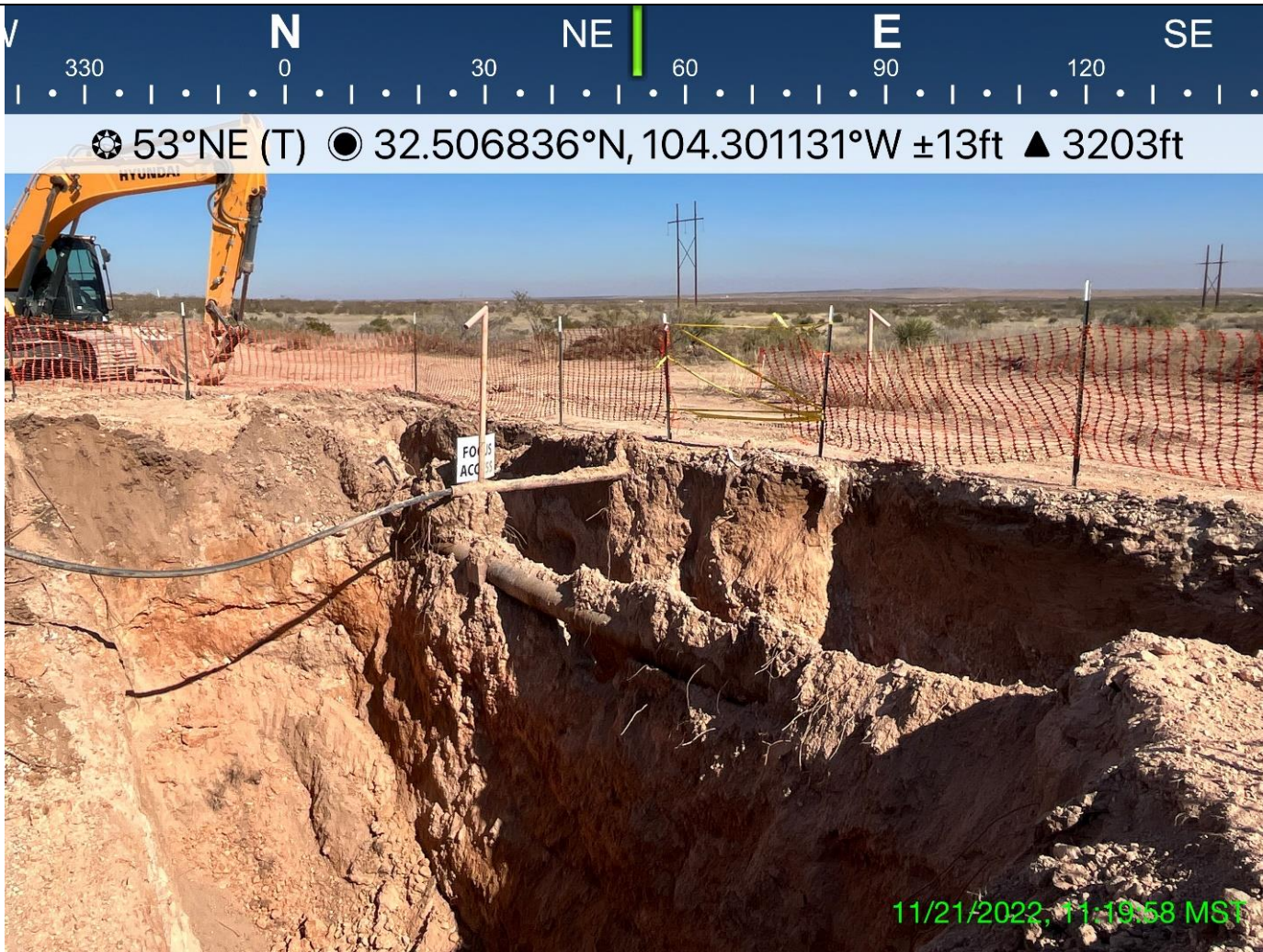
Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #10	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north by northwest, view of confirmation samples SW2, SW1, and BS01.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #11	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing northeast, view of confirmation samples SW1 and SW5.


Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #12	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	<p>SE S SW W</p> <p>20 150 180 210 240 270 300</p> <p>☀ 213°SW (T) ☉ 32.506952°N, 104.301038°W ±13ft ▲ 3203ft</p> <p>11/21/2022, 11:20:30 MST</p> <p>Description: Facing southwest, view of confirmation samples SW4, SW3, and SW2.</p>

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #13	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of confirmation samples SW6, SW4, BS03 and BS04.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #14	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: November 21, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of confirmation samples SW3, SW2, and BS02.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #15	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: December 5, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north, view of confirmation sample BS01, SW1, and SW2.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #16	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: December 5, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north by northwest, view of confirmation samples BS01, SW1 and SW2.

Photograph Log
Line A-18 Pipeline Release
Enterprise Field Services



Photograph #17	
Client: Enterprise Field Services	
Site Name: Line A-18 Pipeline Release	
Date Photo Taken: December 13, 2022	
Release Location: N32.5025556, W104.30111 N-S4-T21S-R26E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north by northwest, view of confirmation samples SW5, BS03 and BS04.

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Report to:

Heather Woods



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: A-18

Work Order: E211040

Job Number: 97057-0001

Received: 11/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/11/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/11/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: A-18
Workorder: E211040
Date Received: 11/8/2022 11:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/8/2022 11:00:00AM, under the Project Name: A-18.

The analytical test results summarized in this report with the Project Name: A-18 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/22 15:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS01	E211040-01A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
BS02	E211040-02A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
BS03	E211040-03A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
BS04	E211040-04A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW1	E211040-05A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW2 0 - 10.5 0-6' _{HW}	E211040-06A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW2 10.5 - 21 6-12' _{HW}	E211040-07A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW2 21 - 32 12-17' _{HW}	E211040-08A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW3 0 - 6.5 0-8.5' _{HW}	E211040-09A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW3 6.5 - 13 8.5-17' _{HW}	E211040-10A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW4	E211040-11A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW5 0 - 6.5	E211040-12A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW5 6.5 - 13	E211040-13A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW5 13 - 20	E211040-14A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW6 0 - 6.5	E211040-15A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW6 6.5 - 13	E211040-16A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW6 13 - 20	E211040-17A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW7	E211040-18A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW8 0 - 10	E211040-19A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.
SW8 10 - 20	E211040-20A	Soil	11/04/22	11/08/22	Glass Jar, 4 oz.



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

BS01

E211040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	100 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	100 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2246030	
Diesel Range Organics (C10-C28)	25.0	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	102 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2246043	
Chloride	841	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

BS02

E211040-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	101 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.5 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	101 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.5 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2246030	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	105 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2246043	
Chloride	95.4	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

BS03

E211040-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	96.4 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	96.4 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	91.2	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	101 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	489	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

BS04

E211040-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	100 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	100 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2246030	
Diesel Range Organics (C10-C28)	26.3	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	106 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2246043	
Chloride	239	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW1

E211040-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	118 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.7 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	118 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	97.7 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	106 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	593	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW20-10.5 0-6' HW
E211040-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	101 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	99.3 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	101 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	99.3 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	106 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	2100	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW2 10.5-21 6-12'
HW
E211040-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	98.4 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	98.4 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	101	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	101 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	294	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW221-32 12-17'
Hw
E211040-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/08/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/08/22	
Toluene	ND	0.0250	1	11/08/22	11/08/22	
o-Xylene	ND	0.0250	1	11/08/22	11/08/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/08/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	98.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/08/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		11/08/22	11/08/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		11/08/22	11/08/22	
Surrogate: Toluene-d8	98.2 %	70-130		11/08/22	11/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	109 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	39.5	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW30-6.5' 0-8.5'
E211040-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	108 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	32.7	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW3 ~~6.5-13~~ 8.5-17'
E211040-10
HW

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	104 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	389	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW4

E211040-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	99.7 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	99.7 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	105 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	38.6	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW5 0 - 6.5

E211040-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	0.0250	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	0.0835	0.0500	1	11/08/22	11/09/22	
Total Xylenes	0.109	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.8 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.8 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	27.7	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	110 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	29.8	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW5 6.5 - 13

E211040-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.6 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.6 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2246030	
Diesel Range Organics (C10-C28)	389	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	107 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2246043	
Chloride	327	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW5 13 - 20

E211040-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	0.285	0.250	10	11/08/22	11/09/22	
Ethylbenzene	2.12	0.250	10	11/08/22	11/09/22	
Toluene	8.37	0.250	10	11/08/22	11/09/22	
o-Xylene	4.52	0.250	10	11/08/22	11/09/22	
p,m-Xylene	17.6	0.500	10	11/08/22	11/09/22	
Total Xylenes	22.1	0.250	10	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	104 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	1050	200	10	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	104 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	1750	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	89.5	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	249 %	50-200		11/09/22	11/10/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	23.9	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW6 0 - 6.5

E211040-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	104 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	100 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	104 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	100 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	136 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	ND	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW6 6.5 - 13

E211040-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.4 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	110 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	ND	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW6 13 - 20

E211040-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.8 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	26.3	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.8 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	161	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	111 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	573	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW7

E211040-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	118 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.5 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2246025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	118 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	97.5 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2246030	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	105 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2246043	
Chloride	74.1	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW8 0 - 10

E211040-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.3 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.3 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	114 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	ND	20.0	1	11/09/22	11/10/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/2022 3:00:56PM

SW8 10 - 20

E211040-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.3 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: Bromofluorobenzene	102 %	70-130		11/08/22	11/09/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		11/08/22	11/09/22	
Surrogate: Toluene-d8	98.3 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246030
Diesel Range Organics (C10-C28)	58.2	25.0	1	11/09/22	11/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/10/22	
Surrogate: n-Nonane	109 %	50-200		11/09/22	11/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246043
Chloride	ND	20.0	1	11/09/22	11/10/22	



QC Summary Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:

11/11/2022 3:00:56PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246025-BLK1)

Prepared: 11/08/22 Analyzed: 11/08/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

LCS (2246025-BS1)

Prepared: 11/08/22 Analyzed: 11/08/22

Benzene	2.32	0.0250	2.50		92.8	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.3	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.39	0.0250	2.50		95.7	70-130			
p,m-Xylene	4.71	0.0500	5.00		94.1	70-130			
Total Xylenes	7.10	0.0250	7.50		94.7	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.555		0.500		111	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

Matrix Spike (2246025-MS1)

Source: E211040-03

Prepared: 11/08/22 Analyzed: 11/08/22

Benzene	2.38	0.0250	2.50	ND	95.4	48-131			
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135			
Toluene	2.41	0.0250	2.50	ND	96.5	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	4.98	0.0500	5.00	ND	99.6	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike Dup (2246025-MSD1)

Source: E211040-03

Prepared: 11/08/22 Analyzed: 11/08/22

Benzene	2.39	0.0250	2.50	ND	95.4	48-131	0.0419	23	
Ethylbenzene	2.35	0.0250	2.50	ND	94.0	45-135	1.98	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.90	24	
o-Xylene	2.47	0.0250	2.50	ND	99.0	43-135	1.90	27	
p,m-Xylene	4.91	0.0500	5.00	ND	98.2	43-135	1.36	27	
Total Xylenes	7.39	0.0250	7.50	ND	98.5	43-135	1.54	27	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.557		0.500		111	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:

11/11/2022 3:00:56PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246025-BLK1)

Prepared: 11/08/22 Analyzed: 11/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

LCS (2246025-BS2)

Prepared: 11/08/22 Analyzed: 11/08/22

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.536		0.500		107	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			

Matrix Spike (2246025-MS2)

Source: E211040-03

Prepared: 11/08/22 Analyzed: 11/08/22

Gasoline Range Organics (C6-C10)	58.3	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.550		0.500		110	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

Matrix Spike Dup (2246025-MSD2)

Source: E211040-03

Prepared: 11/08/22 Analyzed: 11/09/22

Gasoline Range Organics (C6-C10)	60.1	20.0	50.0	ND	120	70-130	3.06	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.526		0.500		105	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/11/2022 3:00:56PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246030-BLK1)

Prepared: 11/09/22 Analyzed: 11/09/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.1		50.0		106	50-200			

LCS (2246030-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

Diesel Range Organics (C10-C28)	215	25.0	250		85.9	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2246030-MS1)

Source: E211040-06

Prepared: 11/09/22 Analyzed: 11/10/22

Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2246030-MSD1)

Source: E211040-06

Prepared: 11/09/22 Analyzed: 11/10/22

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.8	38-132	4.67	20	
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/11/2022 3:00:56PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246043-BLK1)

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride ND 20.0

LCS (2246043-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 245 20.0 250 98.2 90-110

Matrix Spike (2246043-MS1)

Source: E211040-01

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 1010 20.0 250 841 68.7 80-120 M4

Matrix Spike Dup (2246043-MSD1)

Source: E211040-01

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 1030 20.0 250 841 75.8 80-120 1.74 20 M4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/11/22 15:00

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chair of Custody

Project Information

Client: Spudis Miller & Associates						Bill To		Attention: Enterprise		Lab WO# PEZ11040		Job Number 97057-0001		TAT 10/30		EPA Program RCRA CWA SDWA	
Project: A-18						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
Project Manager: Heather Woods						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
Address: 201 S. Habaguan						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
City, State, Zip						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
Phone:						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
Email:						City, State, Zip		Address:		City, State, Zip		Phone:		Email:			
Report due by:						Date Sampled		Matrix		No. Containers		Sample ID		Lab Number			
1310	11/4	S	1	BS01	1												
1315	11/4	S	1	BS02	1												
1320	11/4	S	1	BS03	1												
1325	11/4	S	1	BS04	1												
1200	11/4	S	1	SW1	1												
1205	11/4	S	1	SW2 0-10.5 0-6'	1												
1210	11/4	S	1	SW2 10.5-21 6-12'	1												
1215	11/4	S	1	SW2 21-32 12-17'	1												
1220	11/4	S	1	SW3 0-10.5 0-8.5'	1												
1225	11/4	S	1	SW3 10.5-13 8.5-17'	1												

Additional Instructions:
 Please send to Heather Woods, Sarahmay Schlee, Georgian Goodman
 I am aware that tampering with or intentionally mislabeling the sample location, date or field samples, at least to the validity and authenticity of this sample.

Signature Section:

Retinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[Signature]	11/7/22	730	[Signature]	11-7-22	9:00
Retinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[Signature]	11-7-22	4:12	Caitlin Chute	11/8/22	11:00
Retinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
AVG Temp °C 4

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laborator is limited to the amount paid for on the report.

envirotech

Chain of Custody

Project Information

Client: <u>Sample M. 0001 Associates</u>				Bill To: <u>Enterprise</u>				Lab Use Only				EPA Program			
Project: <u>A-18</u>				Attention: <u>Don Williams</u>				Lab WO# <u>PE211040</u>				Job Number <u>97057-001</u>			
Project Manager: <u>Heather Woods</u>				Address:				City, State, Zip				Phone:			
Address: <u>201 S. Palomero</u>				City, State, Zip				Phone:				Email:			
City, State, Zip: <u>Carlsbad NM 88502</u>				City, State, Zip				Phone:				Email:			
Phone: _____				City, State, Zip				Phone:				Email:			
Email: _____				City, State, Zip				Phone:				Email:			
Report due by: _____				WO# <u>Rd22121</u>				Analysis and Method				State			
Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number	DRO/DRO by B015	GRG/DRO by B015	RTX by B023	VOC by B260	Metals G010	Chloride B0610	IGDUC - NM	IGDUC - TX	Remarks	
1230	11/4	S	1	SW4	11							X			
1235	11/4	S	1	SW5 0-6.5	12							X			
1240	11/4	S	1	SW5 6.5-13	13							X			
1245	11/4	S	1	SW5 13-20	14							X			
1250	11/4	S	1	SW6 0-6.5	15							X			
1255	11/4	S	1	SW6 6.5-13	16							X			
1300	11/4	S	1	SW6 13-20	17							X			
1305	11/4	S	1	SW7	18							X			
1330	11/4	S	1	SW8 0-10	19							X			
1335	11/4	S	1	SW8 10-20	20							X			

Additional Instructions:
Please send to Heather Woods, Georgetown Goodman, Sachinmay Shen
 I, the sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, plus or minus, voids the sample. I am aware that tampering with or intentionally mislabeling the sample location, plus or minus, voids the sample.

Time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Relinquished by: (Signature) _____ Date: 11/7/22 Time: 7:30

Relinquished by: (Signature) _____ Date: 11/7/22 Time: 7:30

Relinquished by: (Signature) _____ Date: 11/7/22 Time: 7:30

Relinquished by: (Signature) _____ Date: 11/7/22 Time: 7:30

Received by: (Signature) _____ Date: 11-7-22 Time: 9:00

Received by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____

Container Type: G - glass, P - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Sol, Sd - Solid, Sl - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

envirotech

Envirotech Analytical Laboratory

Printed: 11/8/2022 11:32:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	11/08/22 11:00	Work Order ID:	E211040
Phone:	(575) 200-5443	Date Logged In:	11/08/22 09:30	Logged In By:	Caitlin Christian
Email:		Due Date:	11/14/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Heather Woods



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: A-18 Pipeline Release

Work Order: E211147

Job Number: 97057-0001

Received: 11/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/29/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/29/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: A-18 Pipeline Release
Workorder: E211147
Date Received: 11/23/2022 11:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/23/2022 11:00:00AM, under the Project Name: A-18 Pipeline Release.

The analytical test results summarized in this report with the Project Name: A-18 Pipeline Release apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	Reported: 11/29/22 17:21
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS01 @ 18'	E211147-01A	Soil	11/21/22	11/23/22	Glass Jar, 2 oz.
SW2 @ 0 - 6'	E211147-02A	Soil	11/21/22	11/23/22	Glass Jar, 2 oz.
SW5 @ 13 - 20	E211147-03A	Soil	11/21/22	11/23/22	Glass Jar, 2 oz.



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/2022 5:21:13PM

BS01 @ 18'

E211147-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2248073	
Benzene	ND	0.0250	1	11/23/22	11/26/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/26/22	
Toluene	ND	0.0250	1	11/23/22	11/26/22	
o-Xylene	ND	0.0250	1	11/23/22	11/26/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/26/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/26/22	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		11/23/22	11/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2248073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.6 %	70-130		11/23/22	11/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2248054	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane	70.2 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2249001	
Chloride	189	20.0	1	11/28/22	11/28/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18 Pipeline Release
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/29/2022 5:21:13PM

SW2 @ 0 - 6'

E211147-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248073
Benzene	ND	0.0250	1	11/23/22	11/26/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/26/22	
Toluene	ND	0.0250	1	11/23/22	11/26/22	
o-Xylene	ND	0.0250	1	11/23/22	11/26/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/26/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/26/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		11/23/22	11/26/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248073
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/26/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		11/23/22	11/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248054
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2249001
Chloride	123	20.0	1	11/28/22	11/28/22	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18 Pipeline Release
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
11/29/2022 5:21:13PM

SW5 @ 13 - 20

E211147-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248073
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248073
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248054
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	55.1 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2249001
Chloride	ND	20.0	1	11/28/22	11/28/22	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/2022 5:21:13PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248073-BLK1)

Prepared: 11/23/22 Analyzed: 11/26/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

LCS (2248073-BS1)

Prepared: 11/23/22 Analyzed: 11/26/22

Benzene	4.51	0.0250	5.00		90.2	70-130			
Ethylbenzene	4.48	0.0250	5.00		89.6	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.60	0.0250	5.00		92.0	70-130			
p,m-Xylene	9.10	0.0500	10.0		91.0	70-130			
Total Xylenes	13.7	0.0250	15.0		91.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2248073-MS1)

Source: E211146-03

Prepared: 11/23/22 Analyzed: 11/26/22

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133			
Toluene	4.93	0.0250	5.00	ND	98.5	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike Dup (2248073-MSD1)

Source: E211146-03

Prepared: 11/23/22 Analyzed: 11/26/22

Benzene	5.04	0.0250	5.00	ND	101	54-133	4.47	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	5.03	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	4.84	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	5.27	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	5.14	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.18	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/2022 5:21:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248073-BLK1)

Prepared: 11/23/22 Analyzed: 11/26/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			

LCS (2248073-BS2)

Prepared: 11/23/22 Analyzed: 11/26/22

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike (2248073-MS2)

Source: E211146-03

Prepared: 11/23/22 Analyzed: 11/26/22

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2248073-MSD2)

Source: E211146-03

Prepared: 11/23/22 Analyzed: 11/26/22

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130	16.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/2022 5:21:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248054-BLK1)					Prepared: 11/23/22 Analyzed: 11/29/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.5	50-200			

LCS (2248054-BS1)					Prepared: 11/23/22 Analyzed: 11/29/22				
Diesel Range Organics (C10-C28)	203	25.0	250		81.2	38-132			
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			

Matrix Spike (2248054-MS1)					Source: E211146-05		Prepared: 11/23/22 Analyzed: 11/29/22		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	38.0		50.0		76.1	50-200			

Matrix Spike Dup (2248054-MSD1)					Source: E211146-05		Prepared: 11/23/22 Analyzed: 11/29/22		
Diesel Range Organics (C10-C28)	125	25.0	250	ND	49.9	38-132	58.0	20	R3
Surrogate: n-Nonane	29.9		50.0		59.8	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/2022 5:21:13PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2249001-BLK1)					Prepared: 11/28/22 Analyzed: 11/28/22				
Chloride	ND	20.0							
LCS (2249001-BS1)					Prepared: 11/28/22 Analyzed: 11/28/22				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2249001-MS1)					Source: E211146-01		Prepared: 11/28/22 Analyzed: 11/28/22		
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2249001-MSD1)					Source: E211146-01		Prepared: 11/28/22 Analyzed: 11/28/22		
Chloride	254	20.0	250	ND	102	80-120	1.82	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	A-18 Pipeline Release	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	11/29/22 17:21

- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



STD Today

envirotech

Envirotech Analytical Laboratory

Printed: 11/28/2022 12:06:28PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	11/23/22 11:00	Work Order ID:	E211147
Phone:	(575) 200-5443	Date Logged In:	11/22/22 17:15	Logged In By:	Caitlin Christian
Email:		Due Date:	11/29/22 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

[illegible]

envirotech

Report to:
Heather Woods



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: A-18
Work Order: E212038
Job Number: 97057-0001
Received: 12/6/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/7/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/7/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: A-18
Workorder: E212038
Date Received: 12/6/2022 11:20:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/6/2022 11:20:00AM, under the Project Name: A-18.

The analytical test results summarized in this report with the Project Name: A-18 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/07/22 15:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW2 6 - 12	E212038-01A	Soil	12/05/22	12/06/22	Glass Jar, 2 oz.



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
12/7/2022 3:33:33PM

SW2 6 - 12

E212038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2250035	
Benzene	ND	0.0250	1	12/06/22	12/06/22	
Ethylbenzene	ND	0.0250	1	12/06/22	12/06/22	
Toluene	ND	0.0250	1	12/06/22	12/06/22	
o-Xylene	ND	0.0250	1	12/06/22	12/06/22	
p,m-Xylene	ND	0.0500	1	12/06/22	12/06/22	
Total Xylenes	ND	0.0250	1	12/06/22	12/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		12/06/22	12/06/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2250035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/22	12/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		12/06/22	12/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2250041	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/22	12/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/22	12/06/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/06/22	12/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2250037	
Chloride	ND	20.0	1	12/06/22	12/06/22	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported: 12/7/2022 3:33:33PM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2250035-BLK1)

Prepared: 12/06/22 Analyzed: 12/06/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.55		8.00		107	70-130			

LCS (2250035-BS1)

Prepared: 12/06/22 Analyzed: 12/07/22

Benzene	4.70	0.0250	5.00		93.9	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	9.84	0.0500	10.0		98.4	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

LCS Dup (2250035-BS1)

Prepared: 12/06/22 Analyzed: 12/07/22

Benzene	4.89	0.0250	5.00		97.8	70-130	4.10	20	
Ethylbenzene	5.07	0.0250	5.00		101	70-130	4.54	20	
Toluene	5.13	0.0250	5.00		103	70-130	4.33	20	
o-Xylene	5.20	0.0250	5.00		104	70-130	3.76	20	
p,m-Xylene	10.3	0.0500	10.0		103	70-130	4.32	20	
Total Xylenes	15.5	0.0250	15.0		103	70-130	4.13	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/7/2022 3:33:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2250035-BLK1) Prepared: 12/06/22 Analyzed: 12/06/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

LCS (2250035-BS2) Prepared: 12/06/22 Analyzed: 12/06/22

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS Dup (2250035-BSD2) Prepared: 12/06/22 Analyzed: 12/06/22

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130	8.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/7/2022 3:33:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2250041-BLK1)

Prepared: 12/06/22 Analyzed: 12/06/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	56.6		50.0		113	50-200			

LCS (2250041-BS1)

Prepared: 12/06/22 Analyzed: 12/06/22

Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	50-200			

Matrix Spike (2250041-MS1)

Source: E212039-04

Prepared: 12/06/22 Analyzed: 12/06/22

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: <i>n</i> -Nonane	53.0		50.0		106	50-200			

Matrix Spike Dup (2250041-MSD1)

Source: E212039-04

Prepared: 12/06/22 Analyzed: 12/06/22

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	0.00890	20	
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/7/2022 3:33:33PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2250037-BLK1)					Prepared: 12/06/22 Analyzed: 12/06/22				
Chloride	ND	20.0							
LCS (2250037-BS1)					Prepared: 12/06/22 Analyzed: 12/07/22				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2250037-MS1)					Source: E212038-01		Prepared: 12/06/22 Analyzed: 12/07/22		
Chloride	267	20.0	250	ND	107	80-120			
Matrix Spike Dup (2250037-MSD1)					Source: E212038-01		Prepared: 12/06/22 Analyzed: 12/07/22		
Chloride	268	20.0	250	ND	107	80-120	0.366	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	A-18	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/07/22 15:33

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Client:	Spider Miller & Associates
Project:	A-18
Project Manager:	Heather Woods
Address:	201 S Halagueno
City, State, Zip	Carlsbad NM 88220
Phone:	
Email:	
Report due by:	

Bill To

Attention: Enterprise

Address: _____

City, State, Zip _____

Phone: _____

Email: _____

WO#Rd27121

Lab Use Only		TAT		EPA Program			
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA	
PE212038	77057-0001	X					State
Analysis and Method				State			

Analysis and Method

ORO/DRO by 8015
ERO/DRO by 8015
ITEX by 8021
VOG by 8260
Metals 6010
Chloride 300.0

State

NM	CO	UT	AZ
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x			
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TX	OK	
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Remarks

[illegible]

Additional Instructions:

Additional Instructions: Please send to Heather Woods Sarahma Schlea Georgann Goodman

Please send to Heather White

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at a temperature above 0 but less than 5°C on subsequent days.

time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time
	12/15/77	1300

time of collection is correct	Date	Time
Relinquished by: (Signature)	12/5/22	1300

Signature	Date	Time
	12/5/22	1:00

Relinquished by: <u>Signature</u>	1352	130
	Date	Time

Relinquished by: (Signature)	DATE

Received by: (Signature)

Date: 10/10/2023

Time 14

[Handwritten signature]

l	o
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1

Received by (Signature)

Date: 12/

1

Received by: (Signature)

12	Date
----	------

Time	
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	Lab Use Only
--	--------------

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 12/6/2022 11:28:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	12/06/22 11:20	Work Order ID:	E212038
Phone:	(575) 200-5443	Date Logged In:	12/06/22 08:41	Logged In By:	Caitlin Christian
Email:		Due Date:	12/06/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Heather Woods



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: A-18
Work Order: E212073
Job Number: 97057-0001
Received: 12/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/15/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: A-18
Workorder: E212073
Date Received: 12/14/2022 10:45:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/14/2022 10:45:00AM, under the Project Name: A-18.

The analytical test results summarized in this report with the Project Name: A-18 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/22 13:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW5 @ 6.5 - 13	E212073-01A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: A-18
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
12/15/2022 1:42:52PM

SW5 @ 6.5 - 13

E212073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251041
Benzene	ND	0.0250	1	12/14/22	12/14/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/14/22	
Toluene	ND	0.0250	1	12/14/22	12/14/22	
o-Xylene	ND	0.0250	1	12/14/22	12/14/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/14/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/14/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		12/14/22	12/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		12/14/22	12/14/22	
Surrogate: Toluene-d8	104 %	70-130		12/14/22	12/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251041
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/14/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		12/14/22	12/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		12/14/22	12/14/22	
Surrogate: Toluene-d8	104 %	70-130		12/14/22	12/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251022
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/22	12/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/22	12/14/22	
Surrogate: n-Nonane	100 %	50-200		12/13/22	12/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2251046
Chloride	ND	20.0	1	12/14/22	12/14/22	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/2022 1:42:52PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2251041-BLK1)

Prepared: 12/14/22 Analyzed: 12/14/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2251041-BS1)

Prepared: 12/14/22 Analyzed: 12/14/22

Benzene	2.38	0.0250	2.50		95.2	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.44	0.0250	2.50		97.7	70-130			
o-Xylene	2.35	0.0250	2.50		93.9	70-130			
p,m-Xylene	4.67	0.0500	5.00		93.4	70-130			
Total Xylenes	7.02	0.0250	7.50		93.6	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS Dup (2251041-BSD1)

Prepared: 12/14/22 Analyzed: 12/14/22

Benzene	2.59	0.0250	2.50		104	70-130	8.51	23	
Ethylbenzene	2.67	0.0250	2.50		107	70-130	7.39	27	
Toluene	2.61	0.0250	2.50		104	70-130	6.50	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	7.30	27	
p,m-Xylene	5.05	0.0500	5.00		101	70-130	7.70	27	
Total Xylenes	7.57	0.0250	7.50		101	70-130	7.57	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/2022 1:42:52PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2251041-BLK1)

Prepared: 12/14/22 Analyzed: 12/14/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2251041-BS2)

Prepared: 12/14/22 Analyzed: 12/14/22

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS Dup (2251041-BSD2)

Prepared: 12/14/22 Analyzed: 12/14/22

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130	10.7	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/2022 1:42:52PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2251022-BLK1)					Prepared: 12/13/22 Analyzed: 12/13/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS (2251022-BS1)					Prepared: 12/13/22 Analyzed: 12/13/22				
Diesel Range Organics (C10-C28)	249	25.0	250		99.8	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			

LCS Dup (2251022-BSD1)					Prepared: 12/13/22 Analyzed: 12/13/22				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132	3.40	20	
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	A-18	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/2022 1:42:52PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2251046-BLK1)					Prepared: 12/14/22 Analyzed: 12/14/22				
Chloride	ND	20.0							
LCS (2251046-BS1)					Prepared: 12/14/22 Analyzed: 12/14/22				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2251046-MS1)					Source: E212072-21		Prepared: 12/14/22 Analyzed: 12/15/22		
Chloride	1620	400	250	1480	58.4	80-120			M2
Matrix Spike Dup (2251046-MSD1)					Source: E212072-21		Prepared: 12/14/22 Analyzed: 12/15/22		
Chloride	1750	400	250	1480	109	80-120	7.45	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	A-18	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/15/22 13:42

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



[illegible]

Envirotech Analytical Laboratory

Printed: 12/14/2022 11:49:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	12/14/22 10:45	Work Order ID:	E212073
Phone:	(575) 200-5443	Date Logged In:	12/13/22 16:18	Logged In By:	Caitlin Christian
Email:		Due Date:	12/14/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 183932

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 183932
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2226085276 LINE A-18, thank you. This closure is approved.	6/12/2023