



Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

March 6th, 2022

NMOCD District 2
 811 S. First Street
 Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Morris Arco 26 #002 Transfer Line Manifold
API No. 30-015-29258
GPS: Latitude 32.636090 Longitude -104.452190
UL "B" Sec. 26, T19S, R25E
Eddy County, NM
NMOCD Ref. No. NAPP2130741101

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners, LLC. (Spur) to perform a spill assessment, remediation, and submit this closure report for a produced water release that occurred at the Morris Arco 26 #002 Transfer Line Manifold (Morris). The initial C-141 was submitted on November 7th, 2021, (Appendix C). This incident was assigned Incident ID NAPP2130741101, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Morris is located approximately fourteen (14) miles south of Artesia, NM. This spill site is in Unit B, Section 26, Township 19S, Range 25E, Latitude 32.636090 Longitude -104.452190, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is made up of Piedmont alluvial deposits. Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits. The soil in this area is made up of Reagan Upton, 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well drained. There is a medium potential for karst geology to be present around the Morris (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 40 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater in this area is 152 feet BGS. The closest waterway is Brantley Lake located approximately 4.45 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 – Closure criteria for soils impacted by a release – NMAC 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic map.

Release Information

NAPP2130741101: On November 2nd, 2021, Due to equipment failure, a gasket failed causing a release of fluid onto the ground. The release affected the adjacent pasture area. The volume of fluid released was calculated to be approximately 32 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 15 bbls of total fluid.

Site Assessment and Soil Sampling Results

On November 8th, 2021, Pima Environmental mobilized personnel to the site to assess the area. We sampled the affected areas and in the pasture. Laboratory results of this sampling event can be found in the following data table. A site map can be found in Figure 4.

11-8-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to Groundwater is <50'								
SPUR ENERGY - MORRIS ARCO 26 #2 SWD								
Date 11/8/2021		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	Surface	ND	ND	ND	101	86.1	187.1	30500
	2'	ND	ND	ND	ND	ND	0	3770
	4'	ND	ND	ND	ND	ND	0	9870
S2	Surface	ND	ND	ND	147	102	249	38400
	2'	ND	ND	ND	ND	ND	0	69.7
	4'	ND	ND	ND	ND	ND	0	250
S3	Surface	ND	ND	ND	203	146	349	22700
	2'	ND	ND	ND	ND	ND	0	66.5
	4'	ND	ND	ND	ND	ND	0	ND
S4	Surface	ND	ND	ND	151	87.9	238.9	29400
	2'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW1	0-6"	ND	ND	ND	ND	ND	0	ND
SW2	0-6"	ND	ND	ND	ND	ND	0	ND
SW3	0-6"	ND	ND	ND	ND	ND	0	ND
SW4	0-6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On December 7th, 2021, Pima mobilized personnel and equipment to conduct remedial activities. We excavated the contaminated area to various depths. Bottom and sidewall composite samples were obtained to ensure that the horizontal and vertical extents of the contamination had been removed. Photographic Documentation can be found in Appendix D.

On December 9th, 2021, after sending a 48-hour notification, Pima returned to the site to collect confirmation samples of the excavated area. The results of this sampling event can be found in the following data table. A Confirmation Sample map can be found in Figure 5.

12-9-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to Groundwater is <50'								
SPUR ENERGY - MORRIS ARCO 26 #2 SWD								
12/9/2021		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	5'	ND	ND	ND	ND	ND	0	48
S2	2'	ND	ND	ND	ND	ND	0	64
S-1	Sidewall	ND	ND	ND	ND	ND	0	240
S-2	Sidewall	ND	ND	ND	ND	ND	0	160
S-3	Sidewall	ND	ND	ND	ND	ND	0	160
S-4	Sidewall	ND	ND	ND	ND	ND	0	48

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was transported to Lea Land, a NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain.

Closure Request

After careful review, Pima requests that this incident, NAPP2130741101 be closed. Spur has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,

Gio Gomez

Gio Gomez
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form & 48-Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



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Figures:

1-Location Map

2-Topo Map

3-Karst Map

4-Site Map

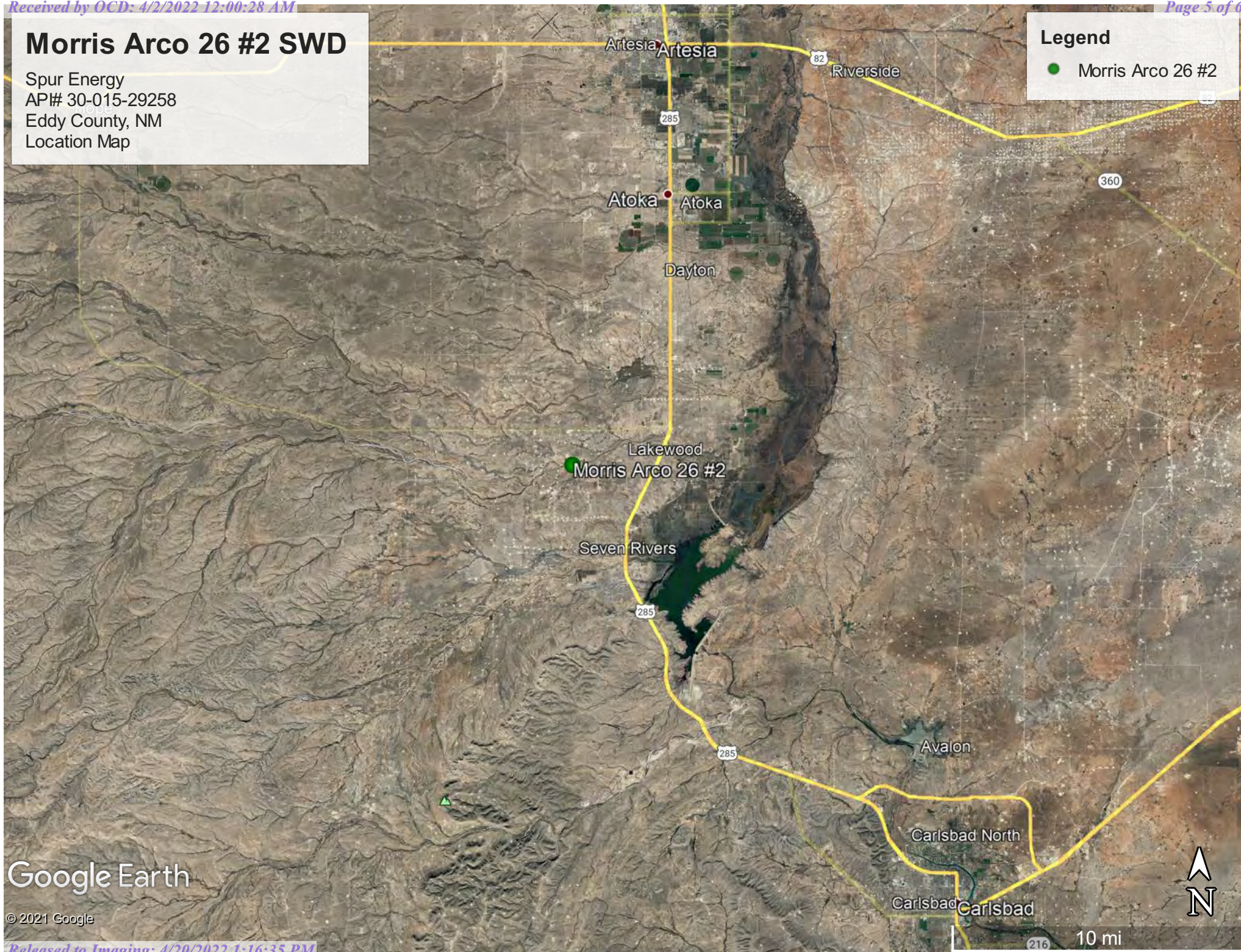
5-Confirmation Sample Map

Morris Arco 26 #2 SWD

Spur Energy
AP# 30-015-29258
Eddy County, NM
Location Map

Legend

● Morris Arco 26 #2



Google Earth

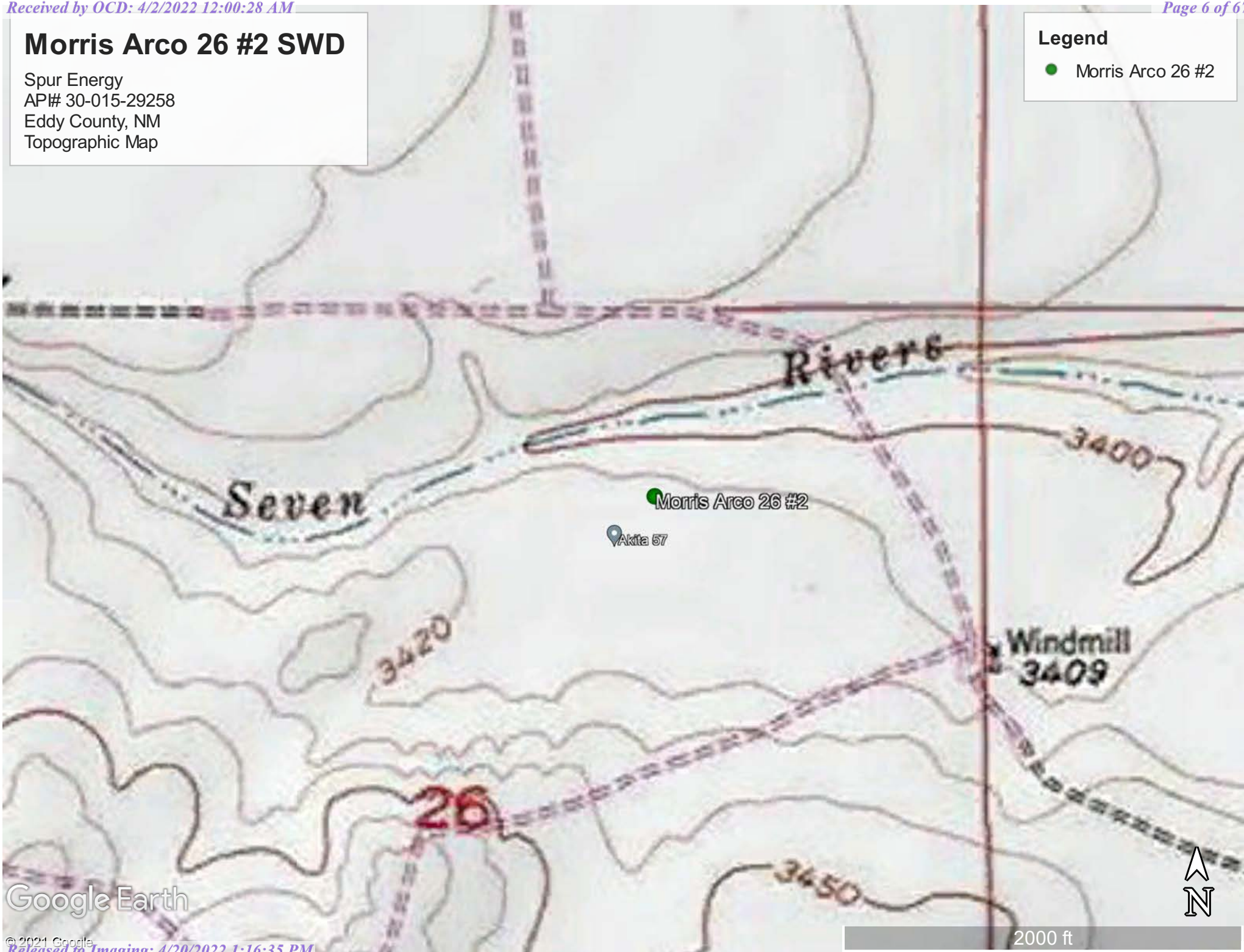
© 2021 Google

Morris Arco 26 #2 SWD

Spur Energy
AP# 30-015-29258
Eddy County, NM
Topographic Map

Legend

● Morris Arco 26 #2



Google Earth

Morris Arco 26 #2 SWD

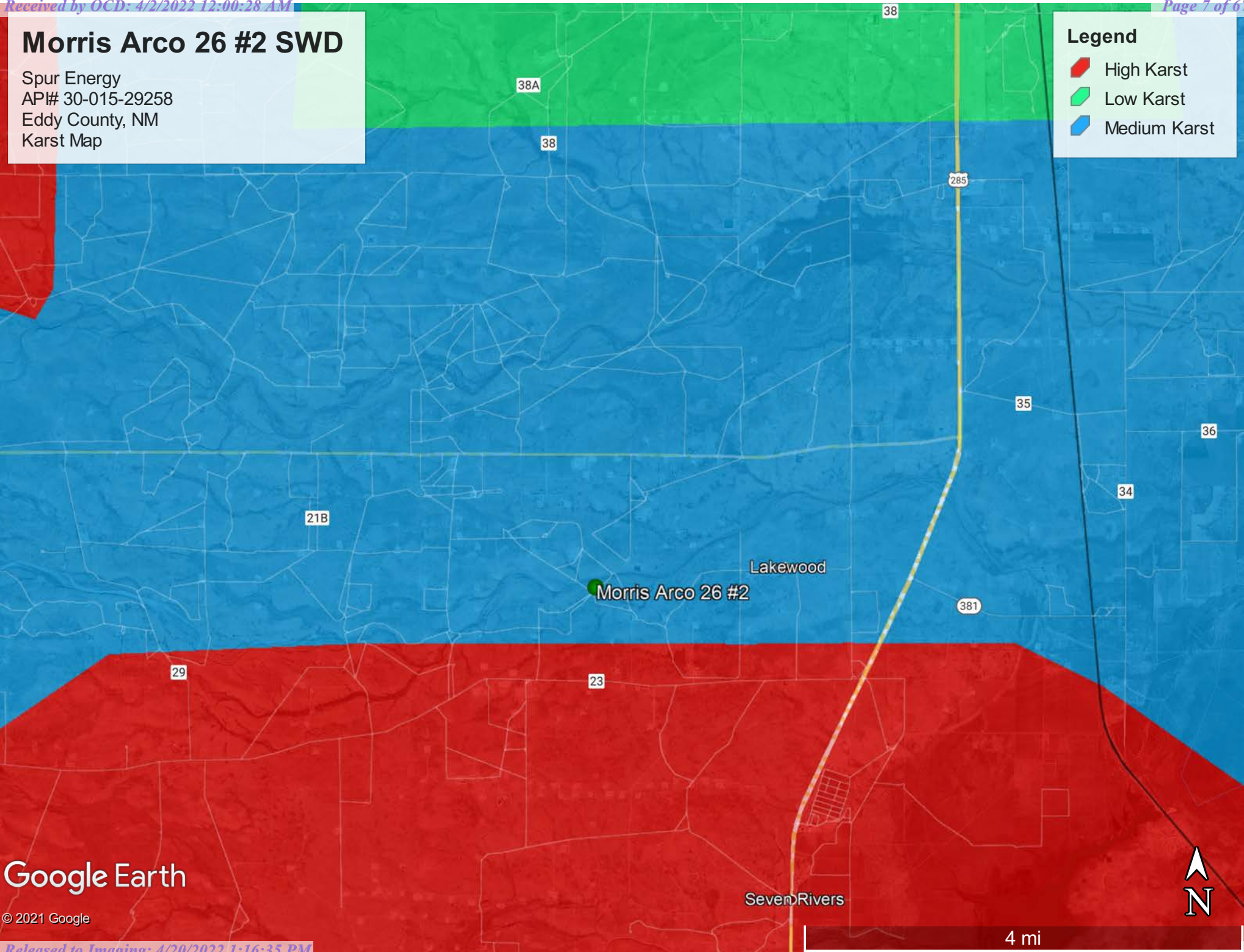
Spur Energy
AP# 30-015-29258
Eddy County, NM
Karst Map

Legend

High Karst

Low Karst

Medium Karst






Google Earth

© 2021 Google

Morris Arco 26 2 SWD


Spur Energy
API #30-015-29258
Eddy County, NM
Site Map

Legend

-  Samples
-  Sidewalls
-  Spill Area-200sqft

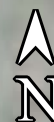
 Morris Arco 26 #2 SWD

SW1
CS1 CS2
SW2
SW4
S4 S3
SW3

 32.635708, -104.452527

Google Earth

Released to Imaging: 4/20/2022 1:16:35 PM







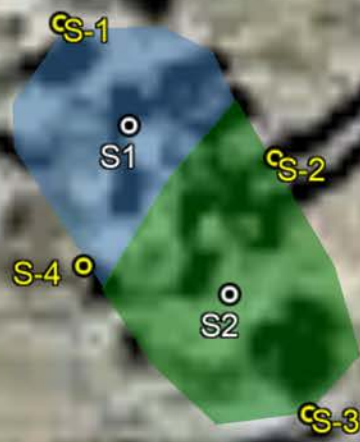
30 ft

Morris Arco 26 2 SWD

Spur Energy
API #30-015-29258
Eddy County, NM
Confirmation Sample Map

Legend

-  2' Excavation-140sqft
-  4' Excavation-60sqft
-  Bottom Composites
-  Sidewall Composites





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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 10496		RA	ED	3	3	4	25	19S	25E	552801	3609865*	1864	110	40	70
RA 10155		RA	ED	4	3	4	25	19S	25E	553001	3609865*	2020	225	60	165
RA 03304		RA	ED			1	27	19S	25E	549081	3610973*	2305	130	60	70
RA 07026		RA	ED	3	3	30	19S	26E	553699	3609975*	2563	135	105	30	
RA 09295		RA	ED	4	3	4	13	19S	25E	552979	3613115*	2587	250	85	165
RA 08986		RA	ED	1	3	3	22	19S	25E	548825	3611507	2595	320	220	100
RA 02909		RA	ED		1	3	22	19S	25E	548864	3611989*	2680	188	130	58
RA 09293		RA	ED	3	4	4	13	19S	25E	553180	3613114*	2715	250	60	190
RA 09294		RA	ED	3	4	4	13	19S	25E	553180	3613114*	2715	194	76	118
RA 03018		RA	ED	3	2	4	34	19S	25E	549987	3608639*	2809	530		
RA 08611		RA	ED	1	1	1	19	19S	26E	553583	3612909*	2861	235	90	145
RA 02958		RA	ED		1	4	34	19S	25E	549681	3608740*	2891	450		

Average Depth to Water: **92 feet**

Minimum Depth: **40 feet**

Maximum Depth: **220 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 551384.38

Northing (Y): 3611076.9

Radius: 3000

*UTM location was derived from PLSS - see Help

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

9/9/21 10:13 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 323811104264301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323811104264301 19S.25E.25.131311

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°38'11", Longitude 104°26'43" NAD27
 Land-surface elevation 3,405 feet above NAVD88
 The depth of the well is 552 feet below land surface.
 This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
 This well is completed in the Artesia Group (313ARTS) local aquifer.

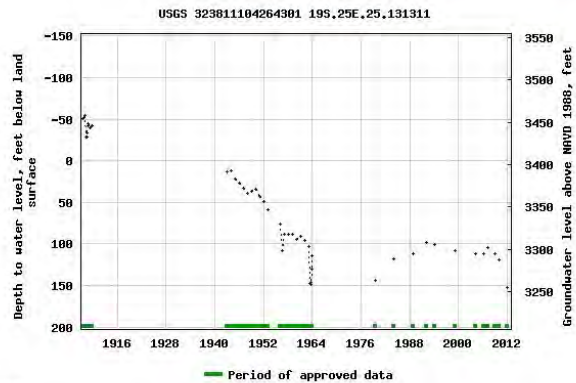
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1988-10-07			D	62611	3293.11	NAVD88
1988-10-07			D	72019	111.89	
1992-02-07			D	62610	3305.67	NGVD29
1992-02-07			D	62611	3307.24	NAVD88
1992-02-07			D	72019	97.76	
1994-02-10			D	62610	3302.42	NGVD29
1994-02-10			D	62611	3303.99	NAVD88
1994-02-10			D	72019	101.01	
1999-01-14			D	62610	3295.54	NGVD29
1999-01-14			D	62611	3297.11	NAVD88
1999-01-14			D	72019	107.89	
2004-02-09			D	62610	3291.42	NGVD29
2004-02-09			D	62611	3292.99	NAVD88
2004-02-09			D	72019	112.01	
2006-02-02	21:40 UTC		m	62610	3291.59	NGVD29
2006-02-02	21:40 UTC		m	62611	3293.16	NAVD88
2006-02-02	21:40 UTC		m	72019	111.84	
2007-02-13	16:50 UTC		m	62610	3299.19	NGVD29
2007-02-13	16:50 UTC		m	62611	3300.76	NAVD88
2007-02-13	16:50 UTC		m	72019	104.24	
2009-01-07	18:20 UTC		m	62610	3291.99	NGVD29
2009-01-07	18:20 UTC		m	62611	3293.56	NAVD88
2009-01-07	18:20 UTC		m	72019	111.44	
2010-01-20	19:30 UTC		m	62610	3283.99	NGVD29
2010-01-20	19:30 UTC		m	62611	3285.56	NAVD88
2010-01-20	19:30 UTC		m	72019	119.44	
2012-01-10	16:30 UTC		m	62610	3250.95	NGVD29
2012-01-10	16:30 UTC		m	62611	3252.52	NAVD88
2012-01-10	16:30 UTC		m	72019	152.48	



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Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: R070DY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070DY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R042XC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°27'27"W 32°38'25"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
	Profile Baseline	
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/26/2021 at 12:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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Appendix C

C-141 Form
48-Hour Notification

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	nAPP2130741101
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Spur Energy Partners, LLC	OGRID	328947
Contact Name	Braidy Moulder	Contact Telephone	713-264-2517
Contact email	bmoulder@spurepllc.com	Incident # (assigned by OCD)	nAPP2130741101
Contact mailing address	2407 Pecos Avenue, Artesia, NM 88210		

Location of Release Source

Latitude 32.637585 Longitude -104.452549
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Morris Arco 26 #002 Transfer Line Manifold	Site Type	Production
Date Release Discovered	11/2/2021	API# (if applicable)	30-015-29258

Unit Letter	Section	Township	Range	County
B	26	19S	25E	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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 32 bbls	Volume Recovered (bbls) 15 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


Due to an equipment failure, a gasket failed causing a release of fluid onto the ground. The release affected the adjacent pasture area.

Incident ID	nAPP2130741101
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? This was a release of more than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given on the date of discovery to the NMOCD on 11/3/2021 by the filing of the Notice of Release.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Dakota Neel</u>	Title: <u>HSE Coordinator</u>
Signature: <u></u>	Date: <u>12/21/2021</u>
email: <u>dneel@spurepllc.com</u>	Telephone: <u>832-849-7837</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	NAPP2130741101
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	40 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130741101
District RP	
Facility ID	
Application ID	

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: Braidy Moulder Title: HSE CoordinatorSignature: Braidy Moulder Date: 3/6/2022email: bmoulder@spurepllc.com Telephone: 713-264-2517**OCD Only**

Received by: _____ Date: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130741101
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: Braidy Moulder Title: HSE Coordinator

Signature: Braidy Moulder Date: 3/6/2022

email: bmoulder@spurepllc.com Telephone: 713-264-2517

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: Jennifer Nobui Date: 04/20/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Tom Bynum](#)
To: ocdonline@state.nm.us
Cc: ["Gio PimaOil"](#)
Subject: 48-Hour Notification - NAPP21330741101
Date: Tuesday, December 7, 2021 3:47:11 PM

Good afternoon,
Pima Environmental would like to notify you that we will be collecting confirmation samples at the Morris Arco 26 #002 for incident NAPP2130741101. Pima personnel is scheduled to be on site for this sampling event at approximately 4:00 p.m. on Thursday, December 9th, 2021. If you have any questions or concerns, please let me know. Thank you.

THANK YOU,

Tom Bynum
Environmental Project Manager
Cell – 580-748-1613
Office – 575-964-7740



Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



SITE PHOTOGRAPHS





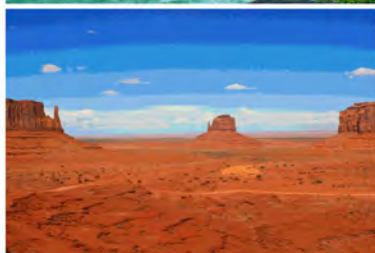


Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Morris Arco 26

Work Order: E111101

Job Number: 21068-0001

Received: 11/10/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/21

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: 11/18/21

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Morris Arco 26
Workorder: E111101
Date Received: 11/10/2021 4:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2021 4:00:00PM, under the Project Name: Morris Arco 26.

The analytical test results summarized in this report with the Project Name: Morris Arco 26 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

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/18/21 15:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-Surface	E111101-01A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S1-2'	E111101-02A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S1-4'	E111101-03A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S2-Surface	E111101-04A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S2-2'	E111101-05A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S2-4'	E111101-06A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S3-Surface	E111101-07A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S3-2'	E111101-08A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S3-4'	E111101-09A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S4-Surface	E111101-10A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S4-2'	E111101-11A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
S4-4'	E111101-12A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
SW1	E111101-13A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
SW2	E111101-14A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
SW3	E111101-15A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.
SW4	E111101-16A	Soil	11/08/21	11/10/21	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S1-Surface

E111101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene	102 %	70-130		11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		11/12/21	11/17/21	
Surrogate: Toluene-d8	95.2 %	70-130		11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene	102 %	70-130		11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		11/12/21	11/17/21	
Surrogate: Toluene-d8	95.2 %	70-130		11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	101	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	86.1	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane	105 %	50-200		11/15/21	11/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	30500	2000	100	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S1-2'

E111101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		104 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		104 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		108 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	3770	400	20	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S1-4'

E111101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		104 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		104 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		97.8 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	9870	1000	50	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S2-Surface

E111101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		101 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		93.9 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		101 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		93.9 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	147	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	102	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		107 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	38400	2000	100	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S2-2'

E111101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		105 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		105 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.7 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		110 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	69.7	40.0	2	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S2-4'

E111101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		102 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.1 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		102 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.1 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		108 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	250	20.0	1	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S3-Surface

E111101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.8 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.8 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	203	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	146	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		110 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	22700	2000	100	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S3-2'

E111101-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.9 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.9 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		106 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	66.5	40.0	2	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S3-4'

E111101-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		93.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		93.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		112 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	200	10	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S4-Surface

E111101-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		102 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		102 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	151	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	87.9	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		106 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	29400	2000	100	11/12/21	11/13/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S4-2'

E111101-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		106 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		106 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.3 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		111 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	400	20	11/12/21	11/14/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

S4-4'

E111101-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.5 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		94.5 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		94.2 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	400	20	11/12/21	11/14/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

SW1

E111101-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene	99.8 %	70-130		11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/12/21	11/17/21	
Surrogate: Toluene-d8	95.5 %	70-130		11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene	99.8 %	70-130		11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/12/21	11/17/21	
Surrogate: Toluene-d8	95.5 %	70-130		11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane	108 %	50-200		11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	20.0	1	11/12/21	11/14/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

SW2

E111101-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		101 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.4 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		101 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.4 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		108 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	20.0	1	11/12/21	11/14/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

SW3

E111101-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.0 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		96.0 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		109 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	20.0	1	11/12/21	11/14/21	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Morris Arco 26
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
11/18/2021 3:19:20PM

SW4

E111101-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Benzene	ND	0.0250	1	11/12/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/17/21	
Toluene	ND	0.0250	1	11/12/21	11/17/21	
o-Xylene	ND	0.0250	1	11/12/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.6 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/17/21	
Surrogate: Bromofluorobenzene		103 %	70-130	11/12/21	11/17/21	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/12/21	11/17/21	
Surrogate: Toluene-d8		95.6 %	70-130	11/12/21	11/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/16/21	
Surrogate: n-Nonane		109 %	50-200	11/15/21	11/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146047
Chloride	ND	20.0	1	11/12/21	11/14/21	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	Reported: 11/18/2021 3:19:20PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2146048-BLK1)

Prepared: 11/12/21 Analyzed: 11/17/21

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	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2146048-BS1)

Prepared: 11/12/21 Analyzed: 11/17/21

Benzene	2.49	0.0250	2.50		99.8	70-130			
Ethylbenzene	2.54	0.0250	2.50		101	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.45	0.0250	2.50		98.2	70-130			
p,m-Xylene	5.18	0.0500	5.00		104	70-130			
Total Xylenes	7.64	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.2	70-130			

LCS Dup (2146048-BSD1)

Prepared: 11/12/21 Analyzed: 11/17/21

Benzene	2.60	0.0250	2.50		104	70-130	4.10	23	
Ethylbenzene	2.61	0.0250	2.50		104	70-130	2.64	27	
Toluene	2.59	0.0250	2.50		104	70-130	2.74	24	
o-Xylene	2.50	0.0250	2.50		100	70-130	1.80	27	
p,m-Xylene	5.30	0.0500	5.00		106	70-130	2.29	27	
Total Xylenes	7.80	0.0250	7.50		104	70-130	2.13	27	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	Reported: 11/18/2021 3:19:20PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2146048-BLK1)

Prepared: 11/12/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2146048-BS2)

Prepared: 11/12/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.7	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

LCS Dup (2146048-BSD2)

Prepared: 11/12/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130	2.90	20	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/18/2021 3:19:20PM

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 (2146051-BLK1)

Prepared: 11/15/21 Analyzed: 11/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.9		50.0		106	50-200			

LCS (2146051-BS1)

Prepared: 11/15/21 Analyzed: 11/15/21

Diesel Range Organics (C10-C28)	467	25.0	500		93.5	38-132			
Surrogate: n-Nonane	49.8		50.0		99.6	50-200			

Matrix Spike (2146051-MS1)

Source: E111101-03

Prepared: 11/15/21 Analyzed: 11/15/21

Diesel Range Organics (C10-C28)	488	25.0	500	ND	97.7	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike Dup (2146051-MSD1)

Source: E111101-03

Prepared: 11/15/21 Analyzed: 11/15/21

Diesel Range Organics (C10-C28)	500	25.0	500	ND	100	38-132	2.34	20	
Surrogate: n-Nonane	52.3		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/18/2021 3:19:20PM

Anions by EPA 300.0/9056A

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 (2146047-BLK1)

Prepared: 11/12/21 Analyzed: 11/12/21

Chloride	ND	20.0
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LCS (2146047-BS1)

Prepared: 11/12/21 Analyzed: 11/12/21

Chloride	249	20.0	250	99.7	90-110
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Matrix Spike (2146047-MS1)

Source: E111101-01

Prepared: 11/12/21 Analyzed: 11/13/21

Chloride	27500	2000	250	30500	NR	80-120	M5
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Matrix Spike Dup (2146047-MSD1)

Source: E111101-01

Prepared: 11/12/21 Analyzed: 11/13/21

Chloride	35600	2000	250	30500	NR	80-120	25.6	20	M5, R3
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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

Pima Environmental Services-Carlsbad	Project Name:	Morris Arco 26	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/18/21 15:19

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.

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.



Project Information

Chain of Custody

Client: PIMA Environmental
 Project: Morris Arco 26
 Project Manager: Tom Bynum
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____
 Report due by: _____

Bill To
 Attention: SPUR Energy
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only AM 11/12
 Lab WO# E111101 Job Number 21068-0001
 Analysis and Method

TAT
 1D 2D 3D Standard

EPA Program
 CWA SDW

State
 NM CO UT AZ TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)	1D	2D	3D	Standard	CWA	SDW	RCR
	11/8/21	Soil	1-4	S1-Surface	1							X								
				S1-2'	2															
				S1-4'	3															
				S2-Surface	4															
				S2-2'	5															
				S2-4'	6															
				S3-Surface	7															
				S3-2'	8															
				S3-4'	9															
				S4-Surface	10															

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	11/9/21	1348	<u>[Signature]</u>	11/9/21	1348	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
			<u>[Signature]</u>	11/10/21	16:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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: 11/12/2021 4:09:22PM

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:	Pima Environmental Services-Carlsbad	Date Received:	11/10/21 16:00	Work Order ID:	E111101
Phone:	(575) 631-6977	Date Logged In:	11/12/21 12:07	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	11/17/21 17:00 (5 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: FedEx**Comments/Resolution****Sample 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.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 14, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: MORRIS ARCO 26 2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/10/21 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 1 BOTTOM (H213566-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	1.93	96.3	2.00	3.39	
Toluene*	<0.050	0.050	12/10/2021	ND	1.87	93.7	2.00	1.63	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.89	94.6	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.89	98.2	6.00	1.17	
Total BTX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 2 BOTTOM (H213566-02)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2021	ND	1.93	96.3	2.00	3.39		
Toluene*	<0.050	0.050	12/10/2021	ND	1.87	93.7	2.00	1.63		
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.89	94.6	2.00	1.35		
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.89	98.2	6.00	1.17		
Total BTEx	<0.300	0.300	12/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 1 SIDEWALL (H213566-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2021	ND	1.90	94.8	2.00	6.22		
Toluene*	<0.050	0.050	12/13/2021	ND	1.89	94.4	2.00	8.66		
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.89	94.3	2.00	8.55		
Total Xylenes*	<0.150	0.150	12/13/2021	ND	6.36	106	6.00	9.49		
Total BTEX	<0.300	0.300	12/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 2 SIDEWALL (H213566-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 3 SIDEWALL (H213566-05)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 12/10/2021
Reported: 12/14/2021
Project Name: MORRIS ARCO 26 2 SWD
Project Number: 6-42
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 4 SIDEWALL (H213566-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2021	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/11/2021	ND	196	97.8	200	9.30	
EXT DRO >C28-C36	<10.0	10.0	12/11/2021	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL

Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pima Environmental Services

Project Manager: Tom Bynum

Address: 1601 N Turner St., Suite 500

City: Hobbs

State: NM Zip: 88240

Phone #: 575-964-7740

Fax #:

Project #: 6-42

Project Owner: SPUR ENERGY

Project Name: MORRIS ARCO 26 #2

Project Location: EDDY COUNTY New Mexico

Sampler Name: JOSH DOWLESS

BILL TO

P.O. #:

Company: SPUR

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(GIRAB OR (C)OMP.

CONTAINERS

MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

CHLORIDES

TPX EXT

BTEX

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Relinquished By:

Date: 12-10-21

Received By:

Time: 1130

Date:

Time:

Relinquished By:

Received By:

Delivered By: (Circle One) -5.3°C C-0.5°C

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes No Yes No

CHECKED BY:

(Initials)

J.D.

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #:

REMARKS:

Bill To Spur

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 95350

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 95350
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/20/2022