

Incident ID	NAPP2139930991
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: 4/18/2022

email: bmoulder@spurepllc.com

Telephone: 713-264-2517

OCD Only

Received by: Robert Hamlet

Date: 8/3/2022

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: 8/3/2022

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



Pima Environmental Services, LLC
5614 N Lovington HWY
Hobbs, NM 88240
575-964-7740

April 18th, 2022

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

Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

Re: Site Assessment, Remediation, & Closure Report
Tinhorn #62 Transfer Line
API No. N/A
GPS: Latitude 32.82291 Longitude -103.96657
UL "E", Sec. 22, T17S, R30E
Eddy County, NM
NMOCD Ref. No. NAPP2129930991

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners, LLC (Spur) to perform a site assessment, remediation, and submit this closure report for a produced water release that occurred at the Tinhorn #62 Transfer Line (Tinhorn). The initial C-141 was submitted on December 21st, 2021 (Appendix C). This incident was assigned Incident ID NAPP2129930991 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Tinhorn is located approximately 3/4 (.75) miles northeast of Loco Hills, NM. This spill site is in Unit E, Section 22, Township 17S, Range 30E, Latitude 32.82291 Longitude -103.96657, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits (Holocene to middle Pleistocene). Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino complex, 0 to 3 percent slopes, eroded 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 low potential for karst geology to be present around the Tinhorn (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 80 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 362 feet BGS. The closest waterway is a playa located approximately 11.95 miles to the northwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	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

NAPP2129930991: On August 25th, 2021, there was an equipment failure on a water pipeline causing the release into the pasture and the adjacent lease road. The volume of the release was calculated to be approximately 100 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 90 bbls of total fluid.

Site Assessment and Soil Sampling Results

On September 7th, 2021, Pima mobilized personnel to the site to assess the area. We sampled the impacted pasture and roadway areas. Laboratory results of this sampling event can be found in the following data table. A Site map can be found in Figure 4.

9/7/2021 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Groundwater is <50'								
SPUR ENERGY - TINHORN 62 LOCO HILLS								
Date 9/7/2021		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
S-1	8'	--	--	--	--	--	0	9360
	9'	--	--	--	--	--	0	ND
S-2	8'	--	--	--	--	--	0	17900
	9'	--	--	--	--	--	0	ND
S-3	4'	--	--	--	--	--	0	269
	5'	--	--	--	--	--	0	ND
S-4	2'	--	--	--	--	--	0	251
	3'	--	--	--	--	--	0	ND
S-5	5'	--	--	--	--	--	0	462
	6'	--	--	--	--	--	0	ND
SW-1	0-6"	--	--	--	--	--	0	ND
SW-2	0-6"	--	--	--	--	--	0	ND
SW-3	0-6"	--	--	--	--	--	0	ND
SW-4	0-6"	--	--	--	--	--	0	ND
SW-5	0-6"	--	--	--	--	--	0	ND
SW-6	0-6"	--	--	--	--	--	0	ND
SW-7	0-6"	--	--	--	--	--	0	ND
SW-8	0-6"	--	--	--	--	--	0	ND
SW-9	0-6"	--	--	--	--	--	0	ND
BG-1	0-6"	--	--	--	--	--	0	ND
BG-2	0-6"	--	--	--	--	--	0	ND

ND- Analyte Not Detected

On March 24th, 2022, Pima personnel returned to the site to begin remediation of the affected areas. We excavated the spill area to various depths confirming the bottoms and sidewalls with field titrations as we progressed. Once all field screens confirmed we had removed the contaminated soil, we returned to collect confirmation samples. Photographic documentation can be found in Appendix D.

On April 6th, 2022, after sending a 48-hour notification (Appendix C), Pima personnel returned to the site to collect confirmation samples of the excavation. The results of this sampling event can be seen in the following table. A Confirmation Sample map can be found in Figure 5.

4/6/22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to GW is <50'								
Spur Energy - Tinhorn #62 Transfer Line								
Date 4/6/2022		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
CS-1	8'	ND	ND	ND	ND	ND	0	529
CS-2	8'	ND	ND	ND	ND	ND	0	498
CS-3	8'	ND	ND	ND	ND	ND	0	532
CS-4	8'	ND	ND	ND	ND	ND	0	516
CS-5	8'	ND	ND	ND	ND	ND	0	505
CS-6	8'	ND	ND	ND	ND	ND	0	523
CS-7	8'	ND	ND	ND	ND	ND	0	338
CS-8	8'	ND	ND	ND	ND	ND	0	270
CS-9	8'	ND	ND	ND	ND	ND	0	232
CS-10	8'	ND	ND	ND	ND	ND	0	231
CS-11	8'	ND	ND	ND	ND	ND	0	189
CS-12	8'	ND	ND	ND	ND	ND	0	386
CS-13	8'	ND	ND	ND	ND	ND	0	67.4
CS-14	8'	ND	ND	ND	ND	ND	0	57.5
CS-15	8'	ND	ND	ND	ND	ND	0	40.9
CS-16	8'	ND	ND	ND	ND	ND	0	55.8
CS-17	8'	ND	ND	ND	ND	ND	0	69
CS-18	8'	ND	ND	ND	ND	ND	0	68.6
CS-19	8'	ND	ND	ND	ND	ND	0	103
CS-20	8'	ND	ND	ND	ND	ND	0	208
CS-21	4'	ND	ND	ND	ND	ND	0	194
CS-22	4'	ND	ND	ND	ND	ND	0	187
CS-23	4'	ND	ND	ND	ND	ND	0	190
CS-24	4'	ND	ND	ND	ND	ND	0	193
CS-25	4'	ND	ND	ND	ND	ND	0	89.9
CS-26	4'	ND	ND	ND	ND	ND	0	44.4
CS-27	4'	ND	ND	ND	ND	ND	0	174
CS-28	4'	ND	ND	ND	ND	ND	0	64
CS-29	4'	ND	ND	ND	ND	ND	0	172
CS-30	2'	ND	ND	ND	ND	ND	0	162
CS-31	2'	ND	ND	ND	ND	ND	0	164
CS-32	2'	ND	ND	ND	ND	ND	0	156
CS-33	2'	ND	ND	ND	ND	ND	0	158
CS-34	2'	ND	ND	ND	ND	ND	0	83.3
CS-35	2'	ND	ND	ND	ND	ND	0	61.2
CS-36	2'	ND	ND	ND	ND	ND	0	64.9
CSW-1	8'	ND	ND	ND	ND	ND	0	232
CSW-2	8'	ND	ND	ND	ND	ND	0	248
CSW-3	4'	ND	ND	ND	ND	ND	0	225
CSW-4	4'	ND	ND	ND	ND	ND	0	219
CSW-5	2'	ND	ND	ND	ND	ND	0	243
CSW-6	2'	ND	ND	ND	ND	ND	0	241
CSW-7	2'	ND	ND	ND	ND	ND	0	232
CSW-8	2'	ND	ND	ND	ND	ND	0	234
CSW-9	2'	ND	ND	ND	ND	ND	0	201
CSW-10	2'	ND	ND	ND	ND	ND	0	161
CSW-11	2'	ND	ND	ND	ND	ND	0	217
CSW-12	2'	ND	ND	ND	ND	ND	0	145
CSW-13	2'	ND	ND	ND	ND	ND	0	237
CSW-14	2'	ND	ND	ND	ND	ND	0	210
CSW-15	4'	ND	ND	ND	ND	ND	0	164
CSW-16	4'	ND	ND	ND	ND	ND	0	242
CSW-17	8'	ND	ND	ND	ND	ND	0	240
CSW-18	8'	ND	ND	ND	ND	ND	0	231
CSW-19	8'	ND	ND	ND	ND	ND	0	233
CSW-20	8'	ND	ND	ND	ND	ND	0	237

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, an 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, NAPP2129930991 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 Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,

Tom Bynum

Tom Bynum
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



Pima Environmental Services

Figures:

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

Tin Horn 62 Loco Hills

Spur Energy
API # N/A
Eddy County, NM
Location Map

Legend

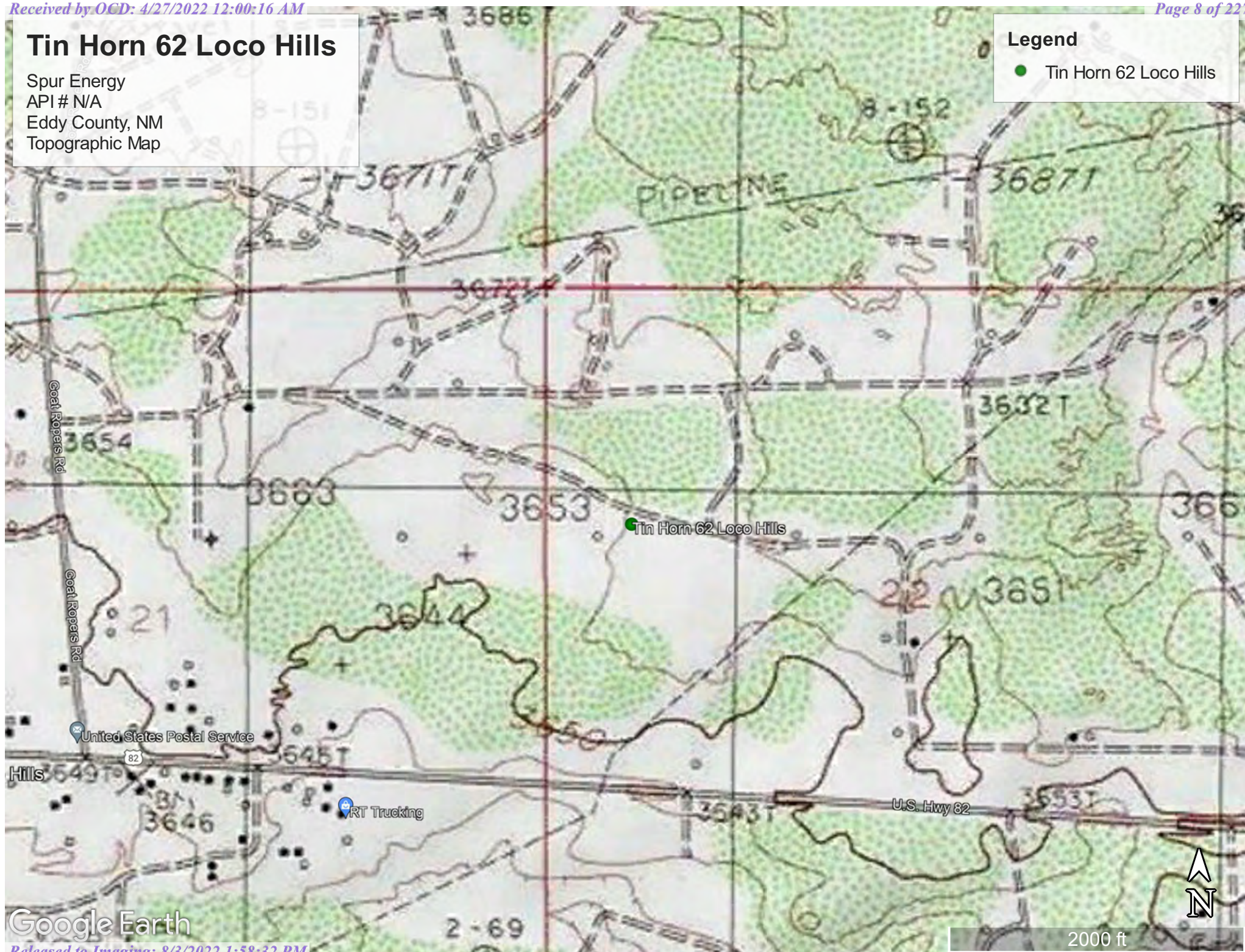
● Tin Horn 62 Loco Hills



Google Earth

Spur Energy
API # N/A
Eddy County, NM
Topographic Map

- Tin Horn 62 Loco Hills



Tin Horn 62 Loco Hills

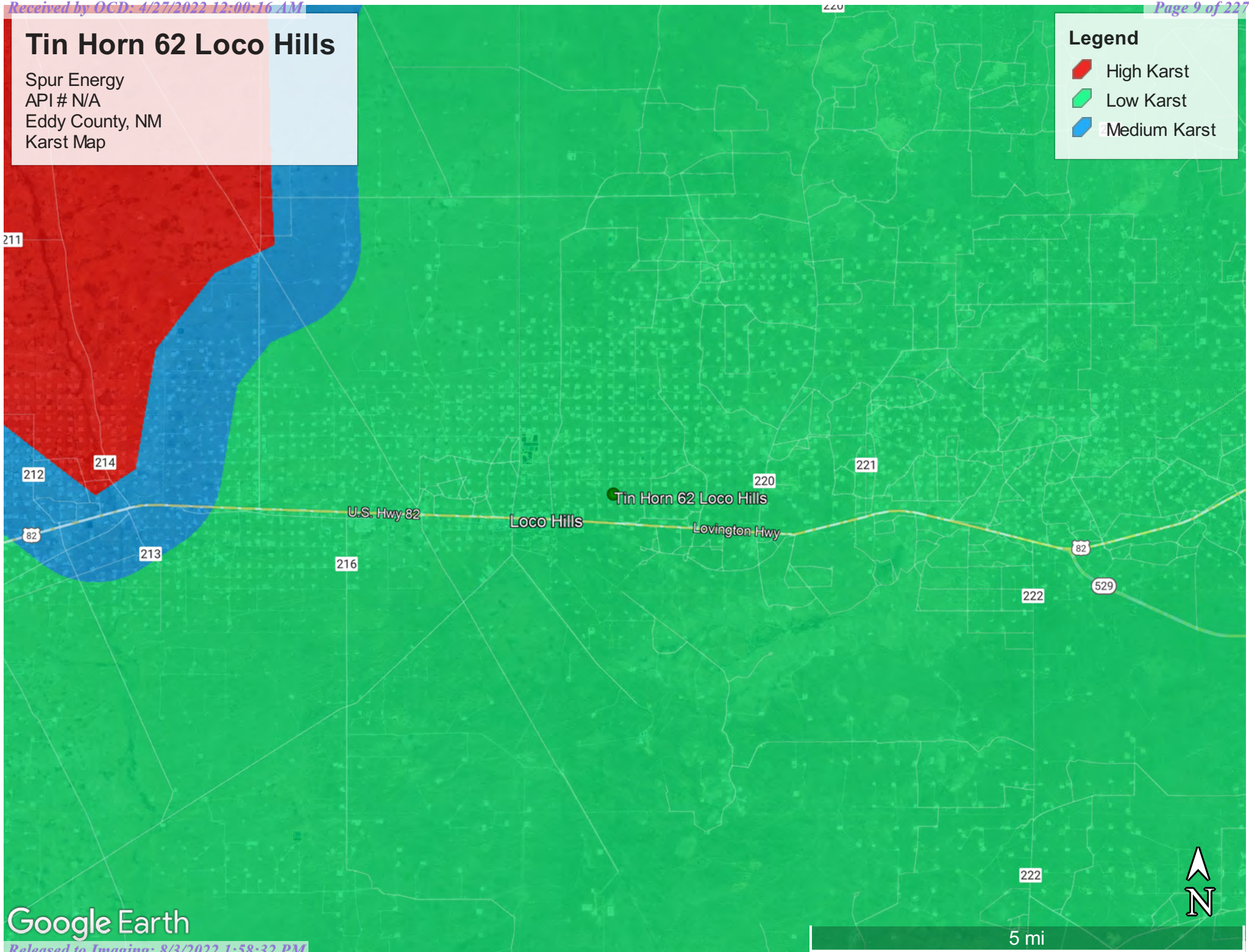
Spur Energy
API # N/A
Eddy County, NM
Karst Map

Legend

High Karst

Low Karst

Medium Karst

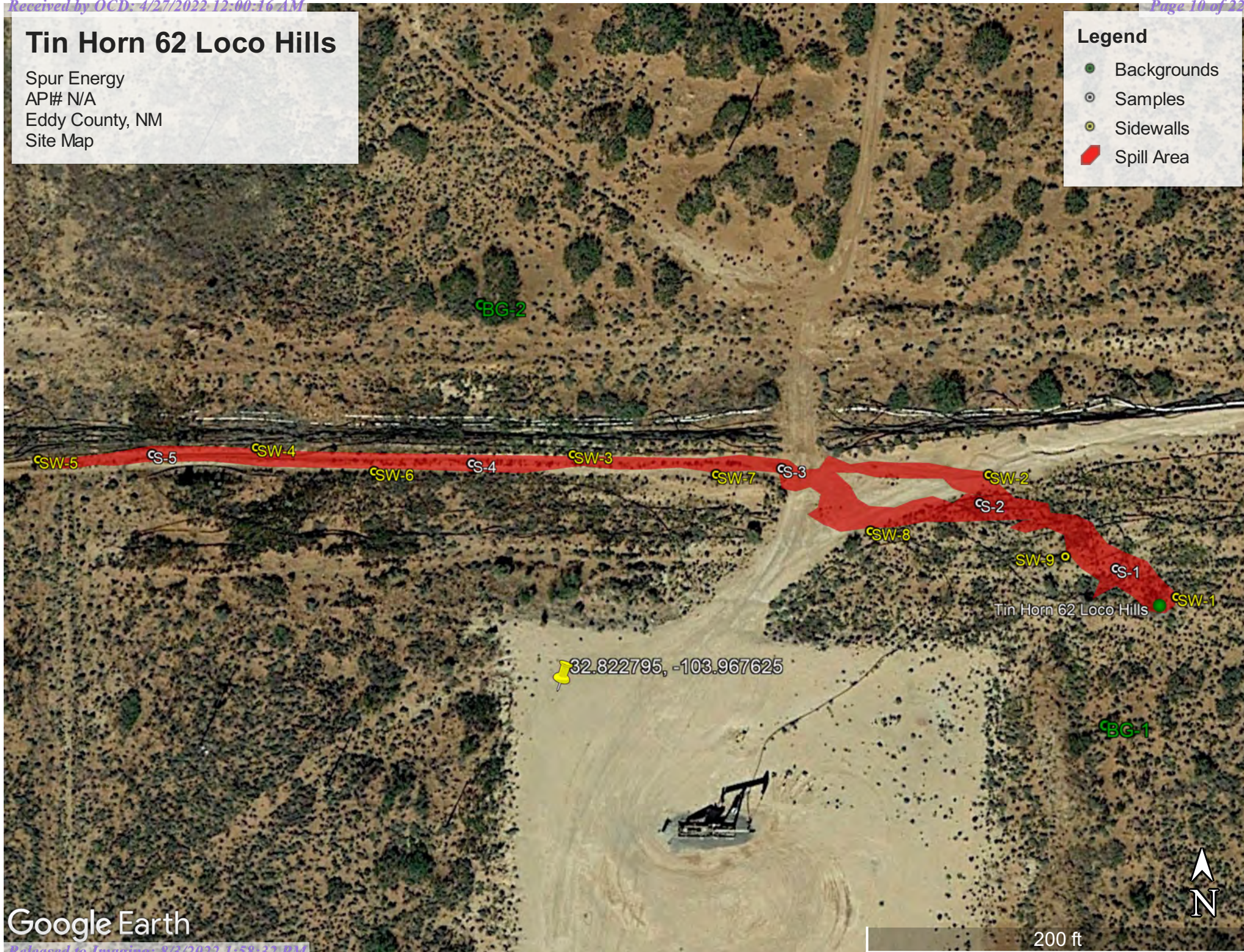


Tin Horn 62 Loco Hills

Spur Energy
API# N/A
Eddy County, NM
Site Map

Legend

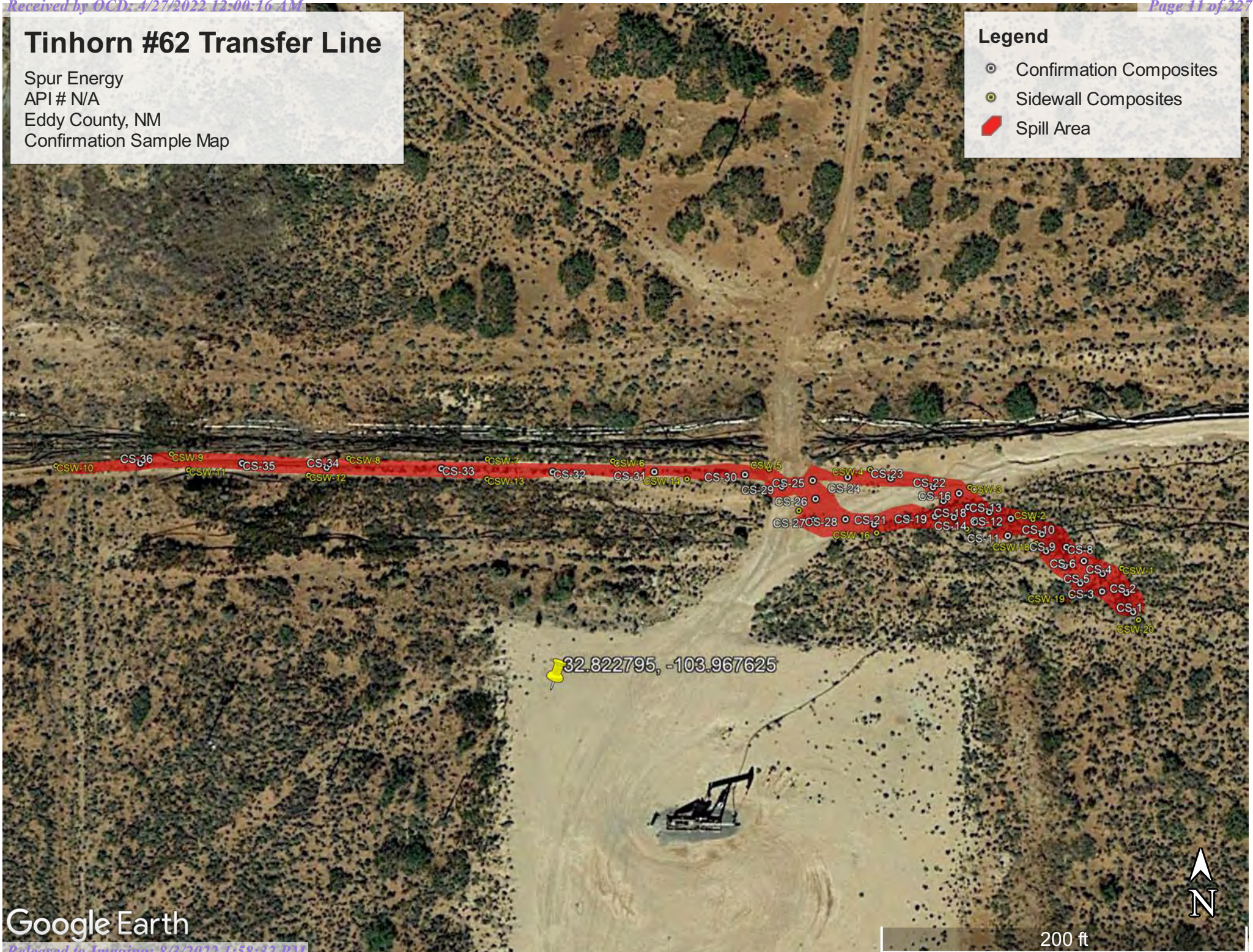
- Backgrounds
- Samples
- Sidewalls
- Spill Area



Google Earth

Spur Energy
API # N/A
Eddy County, NM
Confirmation Sample Map

- Confirmation Composites
- Sidewall Composites
- Spill Area





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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 11914 POD1		RA	ED	2	4	2	20	17S	30E	594801	3632002	1925	85	80	5
RA 11590 POD4		RA	ED	4	1	1	32	17S	31E	603308	3629253	7186	55		
RA 11590 POD1		RA	ED	2	1	3	32	17S	31E	603315	3628545	7504	158		
RA 11590 POD3		RA	ED	3	1	2	32	17S	31E	603932	3629260	7760	60		

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 596722.59

Northing (Y): 3632132.32

Radius: 8000

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.

8/26/21 5:58 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 325216103575701

Minimum number of levels = 1

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

USGS 325216103575701 16S.30E.33.42443

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°52'16", Longitude 103°57'57" NAD27

Land-surface elevation 3,729 feet above NAVD88

The depth of the well is 385 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

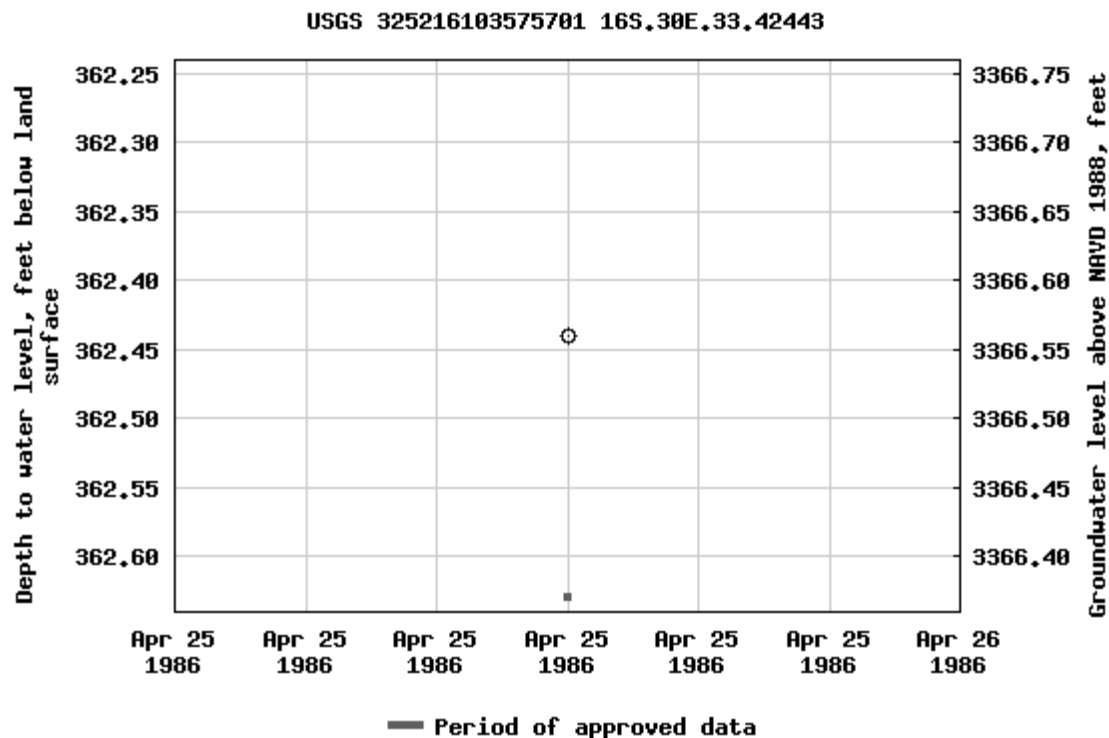
Output formats

[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](#)

[Questions about sites/data?](#)

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[Automated retrievals](#)

[Help](#)

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[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)



Page Last Modified: 2021-10-26 18:22:30 EDT

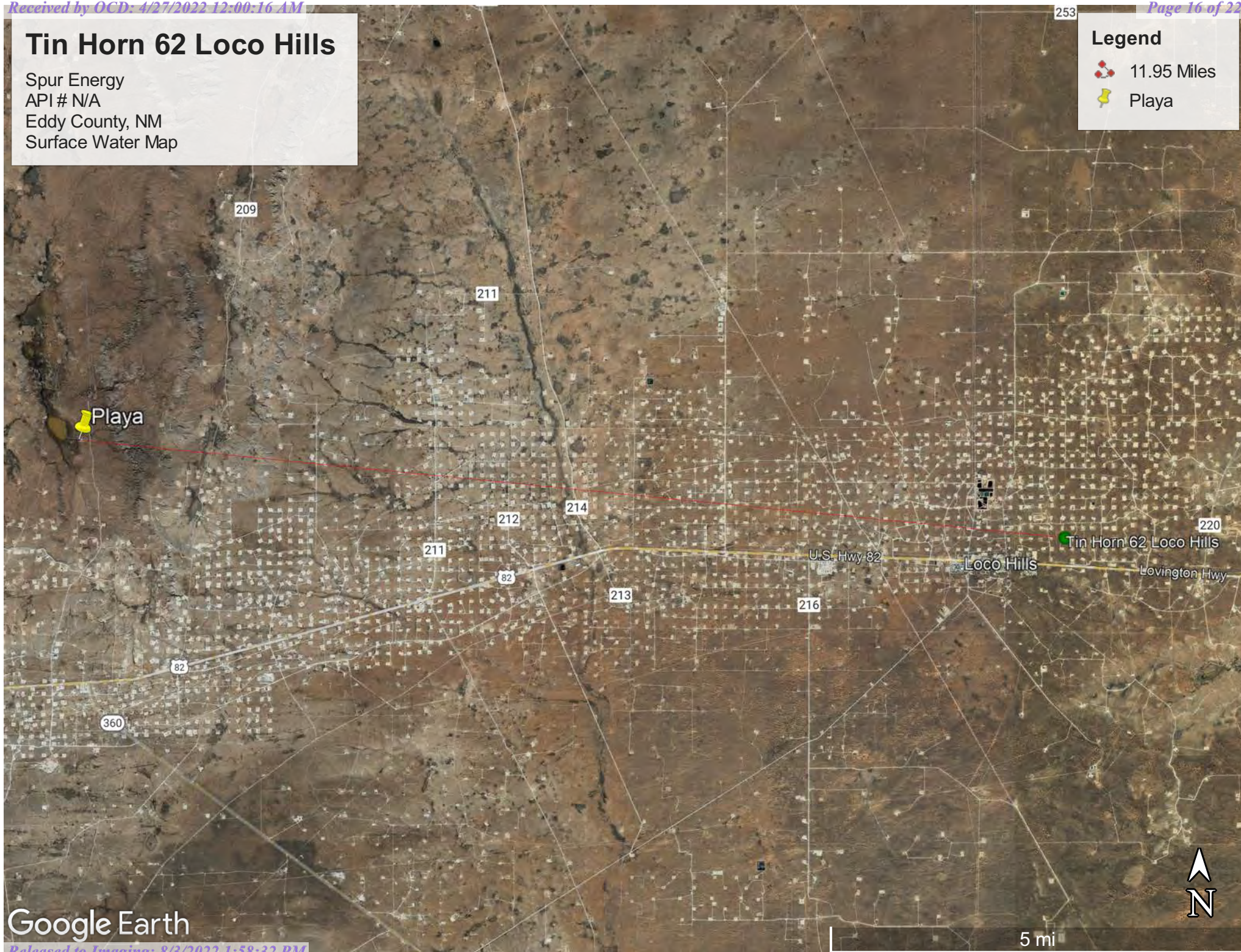
0.61 0.55 nadww02

Tin Horn 62 Loco Hills

Spur Energy
API # N/A
Eddy County, NM
Surface Water Map

Legend

-  11.95 Miles
-  Playa



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

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 slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 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: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 4 percent
Ecological site: R042XC004NM - Sandy
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Data Source Information

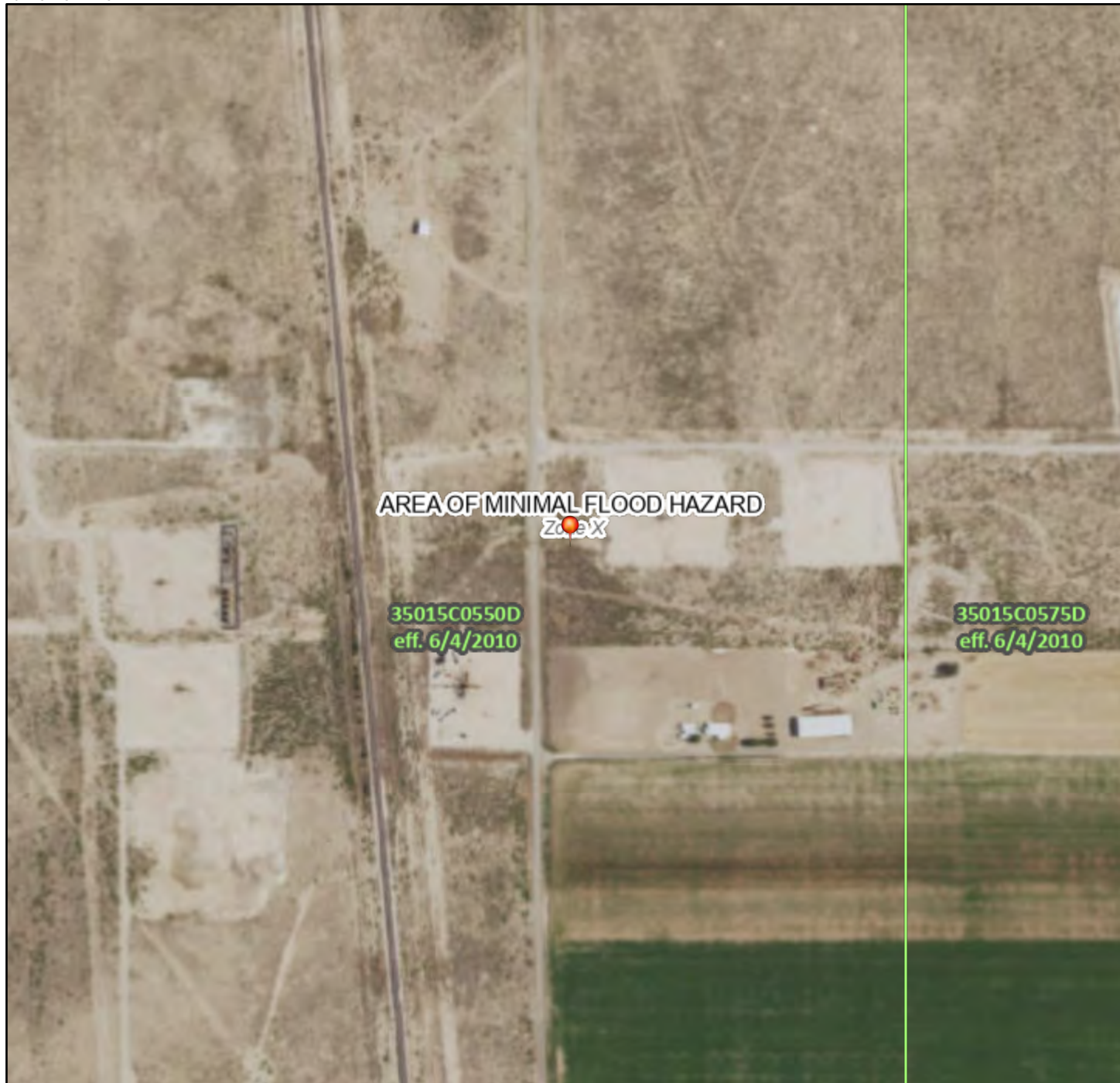
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°23'W 32°41'15"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
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		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 **10/25/2021 at 3:36 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.



Pima Environmental Services

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	nAPP2129930991
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)	nAPP2129930991
Contact mailing address	2407 Pecos Avenue, Artesia, NM 88210		

Location of Release Source

Latitude 32.82291 Longitude -103.96657
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tinhorn #62 Transfer Line	Site Type	Production
Date Release Discovered	8/25/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
E	22	17S	30E	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) 100 bbls	Volume Recovered (bbls) 90 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

Equipment failure on a water pipeline caused the release into the pasture and the adjacent lease road.

Incident ID	nAPP2129930991
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 8/26/2021 via submission 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	NAPP2139930991
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?	<u>80</u> (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 type="checkbox"/> Yes <input checked="" 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?	<u>4/18/2022</u> <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.

Oil Conservation Division

Incident ID	NAPP2139930991
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 Coordinator

Signature: Braidy Moulder Date: 4/18/2022

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

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2139930991
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: 4/18/2022
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: _____ Date: _____

Printed Name: _____ Title: _____

From: [Gio PimaOil](#)
To: ocdonline@state.nm.us; [Tom Pima Oil](#); [Ned Pima Oil](#)
Subject: Tinhorn #62 NAPP2129930991 Sampling Confirmation
Date: Monday, April 4, 2022 9:58:16 AM

Good morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the Tinhorn #62 Transfer Line for incident NAPP2129930991. Pima personnel are scheduled to be on site for this sampling event at approximately 7:30 a.m. on Wednesday , April 6, 2022. If you have any questions or concerns, please let me know. Thank you.

Gio Gomez
Environmental Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



SITE PHOTOGRAPHS
SPUR ENERGY PARTNERS
TINHORN 62 LOCO HILLS

Site Assessment















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: Tin Horn 62

Work Order: E109027

Job Number: 21068-0001

Received: 9/10/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/16/21

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: 9/16/21

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Tin Horn 62
Workorder: E109027
Date Received: 9/10/2021 11:20:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2021 11:20:00AM, under the Project Name: Tin Horn 62.

The analytical test results summarized in this report with the Project Name: Tin Horn 62 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
Tom Brown
Technical Representative
Cell: 832-444-7704
tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S-1 8'	6
S-2 8'	7
S-3 4'	8
S-4 2'	9
S-5 5'	10
S-1 9'	11
S-2 9'	12
S-3 5'	13
S-4 3'	14
S-5 6'	15
SW-1	16
SW-2	17
SW-3	18
SW-4	19
SW-5	20
SW-6	21
SW-7	22
SW-8	23
SW-9	24
BG-1	25

Table of Contents (continued)

BG-2	26
QC Summary Data	27
QC - Anions by EPA 300.0/9056A	27
Definitions and Notes	29
Chain of Custody etc.	30

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 09/16/21 13:14
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1 8'	E109027-01A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-2 8'	E109027-02A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-3 4'	E109027-03A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-4 2'	E109027-04A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-5 5'	E109027-05A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-1 9'	E109027-06A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-2 9'	E109027-07A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-3 5'	E109027-08A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-4 3'	E109027-09A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
S-5 6'	E109027-10A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-1	E109027-11A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-2	E109027-12A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-3	E109027-13A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-4	E109027-14A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-5	E109027-15A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-6	E109027-16A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-7	E109027-17A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-8	E109027-18A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
SW-9	E109027-19A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
BG-1	E109027-20A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.
BG-2	E109027-21A	Soil	09/07/21	09/10/21	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-1 8'

E109027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	--------------------	----------	----------	----------	-------

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	9360	200	10	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

S-2 8'

E109027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	17900	1000	50	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-3 4'

E109027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	269	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-4 2'

E109027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	251	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

S-5 5'

E109027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	462	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-1 9'

E109027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

S-2 9'

E109027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-3 5'

E109027-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-4 3'

E109027-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-5 6'

E109027-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

SW-1

E109027-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	ND	20.0	1	09/15/21	09/15/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

SW-2

E109027-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-3

E109027-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/16/2021 1:14:19PM

SW-4

E109027-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2138027
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-5

E109027-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-6

E109027-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-7

E109027-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-8

E109027-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-9

E109027-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

BG-1

E109027-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138027	
Chloride	ND	20.0	1	09/15/21	09/16/21	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

BG-2

E109027-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138025	
Chloride	ND	20.0	1	09/15/21	09/15/21	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2138025-BLK1)					Prepared: 09/15/21 Analyzed: 09/15/21				
Chloride	ND	20.0							
LCS (2138025-BS1)					Prepared: 09/15/21 Analyzed: 09/15/21				
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2138025-MS1)					Source: E109039-01		Prepared: 09/15/21 Analyzed: 09/15/21		
Chloride	276	20.0	250	34.9	96.5	80-120			
Matrix Spike Dup (2138025-MSD1)					Source: E109039-01		Prepared: 09/15/21 Analyzed: 09/15/21		
Chloride	287	20.0	250	34.9	101	80-120	3.77	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tin Horn 62	Reported: 9/16/2021 1:14:19PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2138027-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride ND 20.0

LCS (2138027-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 249 20.0 250 99.7 90-110

Matrix Spike (2138027-MS1)

Source: E109027-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 8880 200 250 9360 NR 80-120 M5

Matrix Spike Dup (2138027-MSD1)

Source: E109027-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 8170 200 250 9360 NR 80-120 8.37 20 M5

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:	Tin Horn 62	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/16/21 13:14

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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.



Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Tin Horn 62</u>				Attention: <u>SPU</u>				Lab WO# <u>E169087</u>				Job Number <u>21068-0001</u>				1D 2D 3D Standard <input checked="" type="checkbox"/>			
Project Manager: Tom Bynum				Address:				Analysis and Method				RCRA							
Address: 1601 N Turner St., Suite 500				City, State, Zip															
City, State, Zip: Hobbs, NM, 88240				Phone:				DRO/DRO by 8015				GRO/DRO by 8015				BTEX by 8021			
Phone: 580-748-1613				Email:															
Email: tom@pimaoil.com				Pima Project # <u>6-41</u>				VOC by 8260				Metals 6010				Chloride 300.0			
Report due by:								BGDOC NM				BGDOC TX				State			
																NM CO UT AZ TX			
																Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
800	9/7/21	Soil		S-1 8'	1														
805	9/7			S-2 8'	2														
810	9/7			S-3 4'	3														
815	9/7			S-4 2'	4														
820	9/7			S-5 5'	5														
825	9/7			S-1 - 9'	6														
830	9/7			S-2 9'	7														
835	9/7			S-3 5'	8														
840	9/7			S-4 3'	9														
845	9/7			S-5 6'	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>		9/9/21		1210		<u>[Signature]</u>		9.9.21		1210		Received on ice: <input checked="" type="checkbox"/> Y / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>[Signature]</u>		9.9.21		1655		<u>[Signature]</u>		9.10.21		11:20									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
<u>[Signature]</u>						<u>[Signature]</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.																			

Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services Project: <u>TIN Horn 62</u> Project Manager: Tom Bynum Address: 1601 N Turner St., Suite 500 City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:				Bill To Attention: <u>SPUL</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>6-41</u>		Lab Use Only				TAT				EPA Program					
						Lab WO# <u>E109027</u>		Job Number <u>21068-0001</u>		1D	2D	3D	Standard	CWA	SDWA				
						Analysis and Method								RCRA					
														State					
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	BGDOC NM	BGDOC TX	NM	CO	UT	AZ	TX	Remarks
850	9/9/21	Soil		SW-1	11														
855				SW-2	12														
900				SW-3	13														
905				SW-4	14														
910				SW-5	15														
915				SW-6	16														
920				SW-7	17														
925				SW-8	18														
930				SW-9	19														
935				BG-1	20														
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 <u>9/9/21</u> Time <u>1210</u>		Received by: (Signature)				Date <u>9-9-21</u> Time <u>1210</u>		Lab Use Only							
Relinquished by: (Signature)				Date <u>9-9-21</u> Time <u>1655</u>		Received by: (Signature)				Date <u>9-10-21</u> Time <u>11:20</u>		Received on ice: <u>Y</u> N							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3			
												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 Analytical Laboratory

Printed: 9/10/2021 2:34:26PM

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:	09/10/21 11:20	Work Order ID:	E109027
Phone:	(575) 631-6977	Date Logged In:	09/10/21 14:12	Logged In By:	Jessica Liesse
Email:	tom@pimaoil.com	Due Date:	09/16/21 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: 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.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Tinhorn # 62 Transfer Line

Work Order: E204053

Job Number: 21068-0001

Received: 4/8/2022

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
4/15/22

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: 4/15/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Tinhorn # 62 Transfer Line
Workorder: E204053
Date Received: 4/8/2022 3:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2022 3:00:00PM, under the Project Name: Tinhorn # 62 Transfer Line.

The analytical test results summarized in this report with the Project Name: Tinhorn # 62 Transfer Line 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
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ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-21	6
CS-22	7
CS-23	8
CS-24	9
CS-25	10
CS-26	11
CS-27	12
CS-28	13
CS-29	14
CS-30	15
CS-31	16
CS-32	17
CS-33	18
CS-34	19
CS-35	20
CS-36	21
QC Summary Data	22
QC - Volatile Organic Compounds by EPA 8260B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-21	E204053-01A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-22	E204053-02A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-23	E204053-03A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-24	E204053-04A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-25	E204053-05A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-26	E204053-06A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-27	E204053-07A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-28	E204053-08A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-29	E204053-09A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-30	E204053-10A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-31	E204053-11A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-32	E204053-12A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-33	E204053-13A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-34	E204053-14A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-35	E204053-15A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-36	E204053-16A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-21

E204053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: Bromofluorobenzene</i>	<i>91.3 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.7 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: Bromofluorobenzene</i>	<i>91.3 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.7 %</i>	<i>70-130</i>		<i>04/12/22</i>	<i>04/14/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
<i>Surrogate: n-Nonane</i>	<i>98.6 %</i>	<i>50-200</i>		<i>04/13/22</i>	<i>04/14/22</i>	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	194	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-22

E204053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	84.1 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	187	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-23

E204053-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	190	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-24

E204053-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	193	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-25

E204053-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	100 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	89.9	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-26

E204053-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	100 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	44.4	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-27

E204053-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	101 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	174	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-28

E204053-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.9 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.9 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	102 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	64.0	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-29

E204053-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	102 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	172	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-30

E204053-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.2 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.2 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	162	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-31

E204053-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	164	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-32

E204053-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	105 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	156	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-33

E204053-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	99.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	158	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-34

E204053-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	83.3	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-35

E204053-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	88.6 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	96.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	88.6 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	96.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	101 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	61.2	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-36

E204053-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	103 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	64.9	20.0	1	04/13/22	04/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported: 4/15/2022 3:58:46PM
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 (2216043-BLK1)

Prepared: 04/12/22 Analyzed: 04/13/22

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	0.431		0.500		86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2216043-BS1)

Prepared: 04/12/22 Analyzed: 04/13/22

Benzene	2.49	0.0250	2.50		99.5	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.45	0.0250	2.50		98.2	70-130			
o-Xylene	2.39	0.0250	2.50		95.6	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.5	70-130			
Total Xylenes	7.22	0.0250	7.50		96.2	70-130			
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			

LCS Dup (2216043-BSD1)

Prepared: 04/12/22 Analyzed: 04/13/22

Benzene	2.38	0.0250	2.50		95.2	70-130	4.46	23	
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130	2.19	27	
Toluene	2.42	0.0250	2.50		96.9	70-130	1.29	24	
o-Xylene	2.32	0.0250	2.50		92.6	70-130	3.17	27	
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130	3.04	27	
Total Xylenes	7.00	0.0250	7.50		93.3	70-130	3.08	27	
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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 (2216043-BLK1)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.431		0.500		86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2216043-BS2)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: Bromofluorobenzene	0.465		0.500		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

LCS Dup (2216043-BSD2)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130	5.67	20	
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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 (2216058-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.8	50-200			

LCS (2216058-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	373	25.0	500		74.7	38-132			
Surrogate: <i>n</i> -Nonane	1.44		50.0		2.87	50-200			

Matrix Spike (2216058-MS1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	452	25.0	500	ND	90.3	38-132			
Surrogate: <i>n</i> -Nonane	1.76		50.0		3.53	50-200			

Matrix Spike Dup (2216058-MSD1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	448	25.0	500	ND	89.6	38-132	0.835	20	
Surrogate: <i>n</i> -Nonane	1.81		50.0		3.62	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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
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Blank (2216052-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride ND 20.0

LCS (2216052-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 247 20.0 250 98.8 90-110

Matrix Spike (2216052-MS1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 446 20.0 250 194 101 80-120

Matrix Spike Dup (2216052-MSD1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/15/22

Chloride 443 20.0 250 194 99.6 80-120 0.552 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

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:58

- 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

Page 3 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by: _____				Bill To Attention: <u>SPUR</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program	
								Lab WO# <u>E204053</u>		Job Number <u>21064-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Analysis and Method										NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> State		RCRA NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> State					
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX								
Time Sampled Date Sampled Matrix No. of Containers Sample ID Lab Number										Remarks							
9:10	4/6/22	S		CS-21	1												
9:15				CS-22	2												
9:20				CS-23	3												
9:25				CS-24	4												
9:30				CS-25	5												
9:35				CS-26	6												
9:40				CS-27	7												
9:45				CS-28	8												
9:50				CS-29	9												
9:55				CS-30	10												
Additional Instructions: <u>Bill To SPUR Energy</u>																	
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 Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>									
Sample Matrix: <u>S - Soil</u> , Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: <u>g - glass</u> , 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 Analytical Laboratory

Printed: 4/11/2022 12:06:26PM

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:	04/08/22 15:00	Work Order ID:	E204053
Phone:	(575) 631-6977	Date Logged In:	04/08/22 12:08	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/14/22 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: CarrierComments/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:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Tinhorn # 62 Transfer Line

Work Order: E204052

Job Number: 21068-0001

Received: 4/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/15/22

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: 4/15/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Tinhorn # 62 Transfer Line
Workorder: E204052
Date Received: 4/8/2022 3:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2022 3:00:00PM, under the Project Name: Tinhorn # 62 Transfer Line.

The analytical test results summarized in this report with the Project Name: Tinhorn # 62 Transfer Line 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,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-1	6
CS-2	7
CS-3	8
CS-4	9
CS-5	10
CS-6	11
CS-7	12
CS-8	13
CS-9	14
CS-10	15
CS-11	16
CS-12	17
CS-13	18
CS-14	19
CS-15	20
CS-16	21
CS-17	22
CS-18	23
CS-19	24
CS-20	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E204052-01A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-2	E204052-02A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-3	E204052-03A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-4	E204052-04A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-5	E204052-05A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-6	E204052-06A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-7	E204052-07A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-8	E204052-08A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-9	E204052-09A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-10	E204052-10A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-11	E204052-11A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-12	E204052-12A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-13	E204052-13A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-14	E204052-14A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-15	E204052-15A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-16	E204052-16A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-17	E204052-17A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-18	E204052-18A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-19	E204052-19A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-20	E204052-20A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-1

E204052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2216042	
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2216042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2216059	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2216051	
Chloride	529	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-2

E204052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	89.7 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	498	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-3

E204052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	532	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-4

E204052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	516	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-5

E204052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	505	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-6

E204052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.3 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	523	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-7

E204052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	338	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-8

E204052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	270	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-9

E204052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	232	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-10

E204052-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	231	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-11

E204052-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	189	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-12

E204052-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	386	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-13

E204052-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	92.1 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	67.4	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-14

E204052-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	57.5	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-15

E204052-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	85.8 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	40.9	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-16

E204052-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	89.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	55.8	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-17

E204052-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	69.0	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-18

E204052-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	68.6	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-19

E204052-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	103	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-20

E204052-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.0 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	208	20.0	1	04/13/22	04/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216042-BLK1)

Prepared: 04/12/22 Analyzed: 04/15/22

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	7.81		8.00		97.6	70-130			

LCS (2216042-BS1)

Prepared: 04/12/22 Analyzed: 04/15/22

Benzene	5.51	0.0250	5.00		110	70-130			
Ethylbenzene	5.70	0.0250	5.00		114	70-130			
Toluene	5.94	0.0250	5.00		119	70-130			
o-Xylene	5.65	0.0250	5.00		113	70-130			
p,m-Xylene	11.5	0.0500	10.0		115	70-130			
Total Xylenes	17.2	0.0250	15.0		115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

LCS Dup (2216042-BSD1)

Prepared: 04/12/22 Analyzed: 04/15/22

Benzene	5.67	0.0250	5.00		113	70-130	2.77	20	
Ethylbenzene	5.87	0.0250	5.00		117	70-130	2.91	20	
Toluene	6.14	0.0250	5.00		123	70-130	3.38	20	
o-Xylene	5.81	0.0250	5.00		116	70-130	2.90	20	
p,m-Xylene	11.9	0.0500	10.0		119	70-130	2.77	20	
Total Xylenes	17.7	0.0250	15.0		118	70-130	2.81	20	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216042-BLK1)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			

LCS (2216042-BS2)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			

LCS Dup (2216042-BSD2)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130	4.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216059-BLK1)

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			

LCS (2216059-BS1)

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	480	25.0	500		96.0	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike (2216059-MS1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	465	25.0	500	ND	93.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			

Matrix Spike Dup (2216059-MSD1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	467	25.0	500	ND	93.3	38-132	0.328	20	
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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
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Blank (2216051-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	ND	20.0
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LCS (2216051-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	254	20.0	250	102	90-110
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Matrix Spike (2216051-MS1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	763	20.0	250	529	93.7	80-120
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Matrix Spike Dup (2216051-MSD1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	775	20.0	250	529	98.3	80-120	1.50	20
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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:	Tinhorn # 62 Transfer Line	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:26

- 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

Page 1 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: <u>SPUR</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program	
								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
								<u>E 204052</u>		<u>21064-0001</u>					<u>X</u>		
								Analysis and Method									
										State		NM		CO	UT	AZ	TX
										BGDOC NM		BGDOC TX					
														Remarks			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX						
7:30	4/6/22	S		CS-1	1							<u>X</u>							
7:35				CS-2	2														
7:40				CS-3	3														
7:45				CS-4	4														
7:50				CS-5	5														
7:55				CS-6	6														
8:00				CS-7	7														
8:05				CS-8	8														
8:10				CS-9	9														
8:15				CS-10	10														

Additional Instructions: Bill To Spur Energy

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.

Relinquished by: (Signature) [Signature] Date 4/17/22 Time 14:30 Received by: (Signature) [Signature] Date 4/17/22 Time 14:30

Relinquished by: (Signature) [Signature] Date 4/17/22 Time 17:30 Received by: (Signature) [Signature] Date 4/18/22 Time 15:00

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

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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.

Project Information

Chain of Custody

Page 2 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by: _____				Bill To Attention: <u>SPUR</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program			
								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
								<u>E204052</u>		<u>21068-0001</u>					<u>X</u>				
								Analysis and Method										RCRA	
										State		NM		CO	UT	AZ	TX		
										<u>X</u>									
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	BGDOC NM	BGDOC TX	Remarks					
8:20	4/6/22	S		CS-11	11							<u>X</u>							
8:25				CS-12	12														
8:30				CS-13	13														
8:35				CS-14	14														
8:40				CS-15	15														
8:45				CS-16	16														
8:50				CS-17	17														
8:55				CS-18	18														
9:00				CS-19	19														
9:05				CS-20	20														
Additional Instructions: <u>Bill To SPUR Energy</u>																			
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>				<u>4/7/22</u>		<u>14:30</u>		<u>[Signature]</u>				<u>4/7/22</u>		<u>14:30</u>		Received on ice: <u>(Y)</u> N			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 _____ T2 _____ T3 _____			
<u>[Signature]</u>				<u>4/7/22</u>		<u>17:30</u>		<u>[Signature]</u>				<u>4/8/22</u>		<u>15:00</u>		AVG Temp °C <u>4</u>			
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____												Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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 Analytical Laboratory

Printed: 4/11/2022 12:04:05PM

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:	04/08/22 15:00	Work Order ID:	E204052
Phone:	(575) 631-6977	Date Logged In:	04/08/22 12:05	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/14/22 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: CarrierComments/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:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Tinhorn # 62 Transfer Line

Work Order: E204053

Job Number: 21068-0001

Received: 4/8/2022

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
4/15/22

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: 4/15/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Tinhorn # 62 Transfer Line
Workorder: E204053
Date Received: 4/8/2022 3:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2022 3:00:00PM, under the Project Name: Tinhorn # 62 Transfer Line.

The analytical test results summarized in this report with the Project Name: Tinhorn # 62 Transfer Line 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
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-21	6
CS-22	7
CS-23	8
CS-24	9
CS-25	10
CS-26	11
CS-27	12
CS-28	13
CS-29	14
CS-30	15
CS-31	16
CS-32	17
CS-33	18
CS-34	19
CS-35	20
CS-36	21
QC Summary Data	22
QC - Volatile Organic Compounds by EPA 8260B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-21	E204053-01A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-22	E204053-02A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-23	E204053-03A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-24	E204053-04A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-25	E204053-05A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-26	E204053-06A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-27	E204053-07A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-28	E204053-08A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-29	E204053-09A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-30	E204053-10A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-31	E204053-11A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-32	E204053-12A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-33	E204053-13A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-34	E204053-14A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-35	E204053-15A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-36	E204053-16A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-21

E204053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: Bromofluorobenzene</i>	91.3 %	70-130		04/12/22	04/14/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130		04/12/22	04/14/22	
<i>Surrogate: Toluene-d8</i>	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: Bromofluorobenzene</i>	91.3 %	70-130		04/12/22	04/14/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130		04/12/22	04/14/22	
<i>Surrogate: Toluene-d8</i>	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
<i>Surrogate: n-Nonane</i>	98.6 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	194	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-22

E204053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	84.1 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	187	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-23

E204053-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	190	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-24

E204053-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	193	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-25

E204053-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	100 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	89.9	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-26

E204053-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	100 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	44.4	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-27

E204053-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	95.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	101 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	174	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-28

E204053-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.9 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.9 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/14/22	
Surrogate: n-Nonane	102 %	50-200		04/13/22	04/14/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	64.0	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-29

E204053-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	102 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	172	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-30

E204053-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.2 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.2 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	162	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-31

E204053-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	164	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-32

E204053-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	105 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	156	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-33

E204053-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	99.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	158	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-34

E204053-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
Surrogate: Bromofluorobenzene	90.0 %	70-130		04/12/22	04/14/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/14/22	
Surrogate: Toluene-d8	96.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	104 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	83.3	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-35

E204053-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	88.6 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	96.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	88.6 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	96.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	101 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	61.2	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:58:46PM

CS-36

E204053-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216043
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/12/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/12/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2216058
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	103 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216052
Chloride	64.9	20.0	1	04/13/22	04/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported: 4/15/2022 3:58:46PM
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 (2216043-BLK1)

Prepared: 04/12/22 Analyzed: 04/13/22

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	0.431		0.500		86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2216043-BS1)

Prepared: 04/12/22 Analyzed: 04/13/22

Benzene	2.49	0.0250	2.50		99.5	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.45	0.0250	2.50		98.2	70-130			
o-Xylene	2.39	0.0250	2.50		95.6	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.5	70-130			
Total Xylenes	7.22	0.0250	7.50		96.2	70-130			
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			

LCS Dup (2216043-BSD1)

Prepared: 04/12/22 Analyzed: 04/13/22

Benzene	2.38	0.0250	2.50		95.2	70-130	4.46	23	
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130	2.19	27	
Toluene	2.42	0.0250	2.50		96.9	70-130	1.29	24	
o-Xylene	2.32	0.0250	2.50		92.6	70-130	3.17	27	
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130	3.04	27	
Total Xylenes	7.00	0.0250	7.50		93.3	70-130	3.08	27	
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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 (2216043-BLK1)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.431		0.500		86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2216043-BS2)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: Bromofluorobenzene	0.465		0.500		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

LCS Dup (2216043-BSD2)

Prepared: 04/12/22 Analyzed: 04/13/22

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130	5.67	20	
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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 (2216058-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2216058-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	373	25.0	500		74.7	38-132			
Surrogate: n-Nonane	1.44		50.0		2.87	50-200			

Matrix Spike (2216058-MS1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	452	25.0	500	ND	90.3	38-132			
Surrogate: n-Nonane	1.76		50.0		3.53	50-200			

Matrix Spike Dup (2216058-MSD1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Diesel Range Organics (C10-C28)	448	25.0	500	ND	89.6	38-132	0.835	20	
Surrogate: n-Nonane	1.81		50.0		3.62	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:58:46PM

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
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Blank (2216052-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	ND	20.0							
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LCS (2216052-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	247	20.0	250		98.8	90-110			
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Matrix Spike (2216052-MS1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride	446	20.0	250	194	101	80-120			
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Matrix Spike Dup (2216052-MSD1)

Source: E204053-01

Prepared: 04/13/22 Analyzed: 04/15/22

Chloride	443	20.0	250	194	99.6	80-120	0.552	20	
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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:	Tinhorn # 62 Transfer Line	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:58

- 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

Page 3 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: <u>SPUR</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-41</u>				Lab Use Only Lab WO# <u>E204053</u> Job Number <u>21064-0001</u>				TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA State NM CO UT AZ TX <u>X</u>			
				Analysis and Method															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks					
9:10	4/6/22	S		CS-21	1							X							
9:15				CS-22	2														
9:20				CS-23	3														
9:25				CS-24	4														
9:30				CS-25	5														
9:35				CS-26	6														
9:40				CS-27	7														
9:45				CS-28	8														
9:50				CS-29	9														
9:55				CS-30	10														
Additional Instructions: <u>Bill To Spur Energy</u>																			
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 Received on ice: <u>Y</u> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other																			
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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 Analytical Laboratory

Printed: 4/11/2022 12:06:26PM

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:	04/08/22 15:00	Work Order ID:	E204053
Phone:	(575) 631-6977	Date Logged In:	04/08/22 12:08	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/14/22 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: CarrierComments/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:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Tinhorn # 62 Transfer Line

Work Order: E204052

Job Number: 21068-0001

Received: 4/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/15/22

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: 4/15/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Tinhorn # 62 Transfer Line
Workorder: E204052
Date Received: 4/8/2022 3:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2022 3:00:00PM, under the Project Name: Tinhorn # 62 Transfer Line.

The analytical test results summarized in this report with the Project Name: Tinhorn # 62 Transfer Line 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
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-1	6
CS-2	7
CS-3	8
CS-4	9
CS-5	10
CS-6	11
CS-7	12
CS-8	13
CS-9	14
CS-10	15
CS-11	16
CS-12	17
CS-13	18
CS-14	19
CS-15	20
CS-16	21
CS-17	22
CS-18	23
CS-19	24
CS-20	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E204052-01A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-2	E204052-02A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-3	E204052-03A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-4	E204052-04A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-5	E204052-05A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-6	E204052-06A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-7	E204052-07A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-8	E204052-08A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-9	E204052-09A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-10	E204052-10A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-11	E204052-11A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-12	E204052-12A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-13	E204052-13A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-14	E204052-14A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-15	E204052-15A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-16	E204052-16A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-17	E204052-17A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-18	E204052-18A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-19	E204052-19A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CS-20	E204052-20A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-1

E204052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2216042	
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2216042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2216059	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2216051	
Chloride	529	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-2

E204052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	89.7 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	498	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-3

E204052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	532	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-4

E204052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	516	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-5

E204052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/14/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/14/22	
Toluene	ND	0.0250	1	04/12/22	04/14/22	
o-Xylene	ND	0.0250	1	04/12/22	04/14/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/14/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		04/12/22	04/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	505	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-6

E204052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.3 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	523	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-7

E204052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	338	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-8

E204052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	270	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-9

E204052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	232	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-10

E204052-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	231	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-11

E204052-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	92.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	189	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-12

E204052-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	386	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-13

E204052-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	92.1 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	67.4	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-14

E204052-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	57.5	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-15

E204052-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	85.8 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	40.9	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-16

E204052-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	89.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	55.8	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-17

E204052-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	69.0	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-18

E204052-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	68.6	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-19

E204052-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	103	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/15/2022 3:26:14PM

CS-20

E204052-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Benzene	ND	0.0250	1	04/12/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/12/22	04/15/22	
Toluene	ND	0.0250	1	04/12/22	04/15/22	
o-Xylene	ND	0.0250	1	04/12/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/12/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/12/22	04/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216042
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/22	04/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/12/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216059
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>						
	94.0 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216051
Chloride	208	20.0	1	04/13/22	04/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216042-BLK1)

Prepared: 04/12/22 Analyzed: 04/15/22

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	7.81		8.00		97.6	70-130			

LCS (2216042-BS1)

Prepared: 04/12/22 Analyzed: 04/15/22

Benzene	5.51	0.0250	5.00		110	70-130			
Ethylbenzene	5.70	0.0250	5.00		114	70-130			
Toluene	5.94	0.0250	5.00		119	70-130			
o-Xylene	5.65	0.0250	5.00		113	70-130			
p,m-Xylene	11.5	0.0500	10.0		115	70-130			
Total Xylenes	17.2	0.0250	15.0		115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

LCS Dup (2216042-BSD1)

Prepared: 04/12/22 Analyzed: 04/15/22

Benzene	5.67	0.0250	5.00		113	70-130	2.77	20	
Ethylbenzene	5.87	0.0250	5.00		117	70-130	2.91	20	
Toluene	6.14	0.0250	5.00		123	70-130	3.38	20	
o-Xylene	5.81	0.0250	5.00		116	70-130	2.90	20	
p,m-Xylene	11.9	0.0500	10.0		119	70-130	2.77	20	
Total Xylenes	17.7	0.0250	15.0		118	70-130	2.81	20	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216042-BLK1)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			

LCS (2216042-BS2)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			

LCS Dup (2216042-BSD2)

Prepared: 04/12/22 Analyzed: 04/15/22

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130	4.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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 (2216059-BLK1)

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			

LCS (2216059-BS1)

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	480	25.0	500		96.0	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike (2216059-MS1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	465	25.0	500	ND	93.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			

Matrix Spike Dup (2216059-MSD1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	467	25.0	500	ND	93.3	38-132	0.328	20	
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/15/2022 3:26:14PM

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
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Blank (2216051-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride ND 20.0

LCS (2216051-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 254 20.0 250 102 90-110

Matrix Spike (2216051-MS1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 763 20.0 250 529 93.7 80-120

Matrix Spike Dup (2216051-MSD1)

Source: E204052-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 775 20.0 250 529 98.3 80-120 1.50 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

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/15/22 15:26

- 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

Page 1 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: <u>SPUR</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program	
								Lab WO# <u>E 204052</u>		Job Number <u>21068-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Analysis and Method										RCRA		State					
										NM	CO	UT	AZ	TX			
										Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX
7:30	4/6/22	S		CS-1	1							X	
7:35				CS-2	2								
7:40				CS-3	3								
7:45				CS-4	4								
7:50				CS-5	5								
7:55				CS-6	6								
8:00				CS-7	7								
8:05				CS-8	8								
8:10				CS-9	9								
8:15				CS-10	10								

Additional Instructions: Bill To Spur Energy

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) <u>[Signature]</u>				Date <u>4/17/22</u> Time <u>14:30</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>4/17/22</u> Time <u>14:30</u>		Lab Use Only	
Relinquished by: (Signature) <u>[Signature]</u>				Date <u>4/17/22</u> Time <u>17:30</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>4/18/22</u> Time <u>15:00</u>		Received on ice: <u>(Y) N</u>	
Relinquished by: (Signature) <u>[Signature]</u>				Date _____ Time _____		Received by: (Signature) _____				Date _____ Time _____		T1 _____ T2 _____ T3 _____	
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.

Project Information

Chain of Custody

Page 2 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: <u>SPUR</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program	
								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
								<u>E204052</u>		<u>21068-0001</u>					<u>X</u>		
								Analysis and Method									
								State									
								NM				CO	UT	AZ	TX		
								<u>X</u>									
								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	BGDOC NM	BGDOC TX
8:20	4/6/22	S		CS-11	11							<u>X</u>	
8:25				CS-12	12								
8:30				CS-13	13								
8:35				CS-14	14								
8:40				CS-15	15								
8:45				CS-16	16								
8:50				CS-17	17								
8:55				CS-18	18								
9:00				CS-19	19								
9:05				CS-20	20								

Additional Instructions: Bill To SPUR Energy

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) <u>[Signature]</u>				Date <u>4/7/22</u>		Time <u>14:30</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>4/7/22</u>		Time <u>14:30</u>	
Relinquished by: (Signature) <u>[Signature]</u>				Date <u>4/7/22</u>		Time <u>17:30</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>4/8/22</u>		Time <u>15:00</u>	
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time		Received by: (Signature)				Date		Time	

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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 Analytical Laboratory

Printed: 4/11/2022 12:04:05PM

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:	04/08/22 15:00	Work Order ID:	E204052
Phone:	(575) 631-6977	Date Logged In:	04/08/22 12:05	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/14/22 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: CarrierComments/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:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Tinhorn # 62 Transfer Line

Work Order: E204054

Job Number: 21068-0001

Received: 4/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/22

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: 4/19/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Tinhorn # 62 Transfer Line
Workorder: E204054
Date Received: 4/8/2022 3:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2022 3:00:00PM, under the Project Name: Tinhorn # 62 Transfer Line.

The analytical test results summarized in this report with the Project Name: Tinhorn # 62 Transfer Line 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

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CSW-1	6
CSW-2	7
CSW-3	8
CSW-4	9
CSW-5	10
CSW-6	11
CSW-7	12
CSW-8	13
CSW-9	14
CSW-10	15
CSW-11	16
CSW-12	17
CSW-13	18
CSW-14	19
CSW-15	20
CSW-16	21
CSW-17	22
CSW-18	23
CSW-19	24
CSW-20	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA 8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
04/19/22 14:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW-1	E204054-01A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-2	E204054-02A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-3	E204054-03A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-4	E204054-04A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-5	E204054-05A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-6	E204054-06A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-7	E204054-07A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-8	E204054-08A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-9	E204054-09A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-10	E204054-10A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-11	E204054-11A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-12	E204054-12A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-13	E204054-13A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-14	E204054-14A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-15	E204054-15A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-16	E204054-16A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-17	E204054-17A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-18	E204054-18A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-19	E204054-19A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.
CSW-20	E204054-20A	Soil	04/06/22	04/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-1

E204054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
<i>Surrogate: Bromofluorobenzene</i>	<i>90.9 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.8 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
<i>Surrogate: Bromofluorobenzene</i>	<i>90.9 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.8 %</i>	<i>70-130</i>		<i>04/13/22</i>	<i>04/15/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
<i>Surrogate: n-Nonane</i>	<i>96.2 %</i>	<i>50-200</i>		<i>04/13/22</i>	<i>04/15/22</i>	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	232	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-2

E204054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	89.9 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	76.7 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	248	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-3

E204054-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	89.8 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	89.8 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	93.7 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	225	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-4

E204054-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.3 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.3 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	95.5 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	96.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	219	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-5

E204054-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	85.7 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	94.7 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	85.7 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	94.7 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	89.7 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	243	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-6

E204054-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	94.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	241	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-7

E204054-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/15/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/15/22	
Toluene	ND	0.0250	1	04/13/22	04/15/22	
o-Xylene	ND	0.0250	1	04/13/22	04/15/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/15/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.1 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/15/22	
Surrogate: Bromofluorobenzene	88.1 %	70-130		04/13/22	04/15/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/13/22	04/15/22	
Surrogate: Toluene-d8	96.8 %	70-130		04/13/22	04/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	95.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	232	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-8

E204054-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/16/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/16/22	
Toluene	ND	0.0250	1	04/13/22	04/16/22	
o-Xylene	ND	0.0250	1	04/13/22	04/16/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/16/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	88.4 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	88.4 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	96.3 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	97.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	234	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-9

E204054-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/16/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/16/22	
Toluene	ND	0.0250	1	04/13/22	04/16/22	
o-Xylene	ND	0.0250	1	04/13/22	04/16/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/16/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.2 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.2 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	93.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	201	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-10

E204054-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/16/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/16/22	
Toluene	ND	0.0250	1	04/13/22	04/16/22	
o-Xylene	ND	0.0250	1	04/13/22	04/16/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/16/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.1 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.1 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	93.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	161	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-11

E204054-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/16/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/16/22	
Toluene	ND	0.0250	1	04/13/22	04/16/22	
o-Xylene	ND	0.0250	1	04/13/22	04/16/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/16/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.0 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/16/22	
Surrogate: Bromofluorobenzene	87.0 %	70-130		04/13/22	04/16/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/22	04/16/22	
Surrogate: Toluene-d8	95.0 %	70-130		04/13/22	04/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	95.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	217	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-12

E204054-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	89.0 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.3 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	89.0 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.3 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	95.2 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	145	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-13

E204054-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.0 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	96.1 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.0 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	96.1 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	87.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	237	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-14

E204054-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.1 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.8 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.1 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.8 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	98.5 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	210	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-15

E204054-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	90.3 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	90.3 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	96.9 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	164	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-16

E204054-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.7 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.7 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	96.4 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	96.6 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	242	20.0	1	04/13/22	04/14/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-17

E204054-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	88.2 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	97.1 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	240	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-18

E204054-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.8 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.8 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.4 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	94.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	231	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-19

E204054-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.9 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	95.4 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	233	20.0	1	04/13/22	04/15/22	



Sample Data

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

Project Name: Tinhorn # 62 Transfer Line
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
4/19/2022 2:06:48PM

CSW-20

E204054-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Benzene	ND	0.0250	1	04/13/22	04/18/22	
Ethylbenzene	ND	0.0250	1	04/13/22	04/18/22	
Toluene	ND	0.0250	1	04/13/22	04/18/22	
o-Xylene	ND	0.0250	1	04/13/22	04/18/22	
p,m-Xylene	ND	0.0500	1	04/13/22	04/18/22	
Total Xylenes	ND	0.0250	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.1 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2216044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/22	04/18/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/13/22	04/18/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/13/22	04/18/22	
Surrogate: Toluene-d8	95.1 %	70-130		04/13/22	04/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2216057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/22	04/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/22	04/15/22	
Surrogate: n-Nonane	95.0 %	50-200		04/13/22	04/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2216054
Chloride	237	20.0	1	04/13/22	04/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/19/2022 2:06:48PM

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 (2216044-BLK1)

Prepared: 04/13/22 Analyzed: 04/18/22

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	0.448		0.500		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

LCS (2216044-BS1)

Prepared: 04/13/22 Analyzed: 04/19/22

Benzene	2.62	0.0250	2.50		105	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.62	0.0250	2.50		105	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.62	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS Dup (2216044-BSD1)

Prepared: 04/13/22 Analyzed: 04/19/22

Benzene	2.63	0.0250	2.50		105	70-130	0.514	23	
Ethylbenzene	2.62	0.0250	2.50		105	70-130	0.460	27	
Toluene	2.62	0.0250	2.50		105	70-130	0.0573	24	
o-Xylene	2.54	0.0250	2.50		102	70-130	0.335	27	
p,m-Xylene	5.06	0.0500	5.00		101	70-130	0.434	27	
Total Xylenes	7.60	0.0250	7.50		101	70-130	0.177	27	
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/19/2022 2:06:48PM

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 (2216044-BLK1)

Prepared: 04/13/22 Analyzed: 04/18/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.448		0.500		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

LCS (2216044-BS2)

Prepared: 04/13/22 Analyzed: 04/19/22

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.1	70-130			
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS Dup (2216044-BSD2)

Prepared: 04/13/22 Analyzed: 04/19/22

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130	1.62	20	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/19/2022 2:06:48PM

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 (2216057-BLK1)

Prepared: 04/13/22 Analyzed: 04/15/22

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 (2216057-BS1)

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	498	25.0	500		99.5	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2216057-MS1)

Source: E204054-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	517	25.0	500	ND	103	38-132			
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

Matrix Spike Dup (2216057-MSD1)

Source: E204054-01

Prepared: 04/13/22 Analyzed: 04/15/22

Diesel Range Organics (C10-C28)	512	25.0	500	ND	102	38-132	1.03	20	
Surrogate: n-Nonane	48.5		50.0		97.0	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/19/2022 2:06:48PM

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
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Blank (2216054-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride ND 20.0

LCS (2216054-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 251 20.0 250 100 90-110

Matrix Spike (2216054-MS1)

Source: E204054-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 505 20.0 250 232 109 80-120

Matrix Spike Dup (2216054-MSD1)

Source: E204054-01

Prepared: 04/13/22 Analyzed: 04/14/22

Chloride 502 20.0 250 232 108 80-120 0.551 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

Pima Environmental Services-Carlsbad	Project Name:	Tinhorn # 62 Transfer Line	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/19/22 14:06

- 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

Page 5 of 6

21068-0001 4/12/22 CC

Client: Pima Environmental Services Project: <u>Tinhorn #62 Transfer Line</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: <u>SPUR</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-41</u>				Lab Use Only				TAT				EPA Program	
								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
								<u>E204054</u>		<u>21064-0001</u>					<u>X</u>		
								Analysis and Method									
										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	BGDOC NM	BGDOC TX
10:30	4/6/22	S		CSW-1	1							X	
10:35				CSW-2	2								
10:40				CSW-3	3								
10:45				CSW-4	4								
10:50				CSW-5	5								
10:55				CSW-6	6								
11:00				CSW-7	7								
11:05				CSW-8	8								
11:10				CSW-9	9								
11:15				CSW-10	10								

Additional Instructions: Bill To SPUR Energy

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.

Sampled by: Bill To SPUR Energy

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4/7/22</u>	Time <u>14:30</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4/7/22</u>	Time <u>14:30</u>	Lab Use Only Received on ice: <u>(Y) N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4/7/22</u>	Time <u>17:30</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4/8/22</u>	Time <u>15:00</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date	Time	Received by: (Signature)	Date	Time	

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.

Project Information

Chain of Custody

Page 6 of 6

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program					
Project: <u>Tinborn #62 Transfer Line</u>					Attention: <u>SPUR</u>		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Tom Bynum					Address:		Analysis and Method							RCRA				
Address: 5614 N. Lovington Hwy.					City, State, Zip		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX				
City, State, Zip: <u>Hobbs, NM, 88240</u>					Phone:									State				
Phone: 580-748-1613					Email:									NM	CO	UT	AZ	TX
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>6-41</u>													
Report due by:														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
11:20	4/6/22	S		CSW-11	11									X				
11:25				CSW-12	12													
11:30				CSW-13	13													
11:35				CSW-14	14													
11:40				CSW-15	15													
11:45				CSW-16	16													
11:50				CSW-17	17													
11:55				CSW-18	18													
12:00				CSW-19	19													
12:05				CSW-20	20													

Additional Instructions: Bill To SPUR Energy

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.

Relinquished by: (Signature) [Signature] Date 4/7/22 Time 14:30 Received by: (Signature) [Signature] Date 4/7/22 Time 14:30

Relinquished by: (Signature) [Signature] Date 4/7/22 Time 17:30 Received by: (Signature) [Signature] Date 4/8/22 Time 15:00

Relinquished by: (Signature) [Signature] Date 4/7/22 Time 17:30 Received by: (Signature) [Signature] Date 4/8/22 Time 15:00

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.

Received on ice: Y N

T1 4 T2 4 T3 4

AVG Temp °C 4

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 Analytical Laboratory

Printed: 4/11/2022 12:09:14PM

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:	04/08/22 15:00	Work Order ID:	E204054
Phone:	(575) 631-6977	Date Logged In:	04/08/22 12:11	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/14/22 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: CarrierComments/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 101638

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 101638
	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 #NAPP2129930991 TINHORN #62 TRANSFER LINE, thank you. This closure is approved.	8/3/2022