



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

October 14th, 2022

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

Re: Site Assessment, Remediation, and Closure Report
SV Chipshot #001
API No. 30-025-33466
GPS: Latitude 32.9354668 Longitude -103.3294525
UL "K", Sec. 11, T16S, R36E
Lea County, NM
NMOCD Ref. No. nGRL1004056899

Pima Environmental Services, LLC (Pima) has been contracted by Armstrong Energy Corporation to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the SV Chipshot #001. The initial C-141 was submitted on September 15th, 2022 (Appendix C). This incident was assigned Incident ID nGRL1004056899, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The SV Chipshot #001 is located approximately one and a half (1.5) miles southeast of Lovington, NM. This spill site is in Unit K, Section 11, Township 16S, Range 36E, Latitude 32.9354668, Longitude -103.3294525, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Ogallala Formation (Lower Pliocene to Middle Miocene). The soil in this area is made up of Portales loam, 0 to 1 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the SV Chipshot #001 (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 64 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 62.7 feet BGS. The closest waterway is a manmade pond located approximately 0.92 miles to the east 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'	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

nGRL1004056899: On February 8th, 2010, a small non reportable produced water release occurred. While in the process of remediating the release a previous historical spill was discovered. Soil removal commenced and two (2) feet of contaminated material was removed.

Site Assessment and Soil Sampling Results

On October 4th, 2022, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. Pima sampled the area overlapping the reclaimed engineered pad. Laboratory results of this sampling event can be found in the following data table.

10-4-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50'-100')								
ARMSTRONG ENERGY -SV CHIPSHOT #001								
Sample Date: 10/4/2022		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
S-1	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-6	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-7	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-8	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-9	1'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND
BG 2	6"	ND	ND	ND	ND	ND	0	ND

ND: Non-Detect

Complete laboratory reports can be found in Appendix E.

Remediation Activities

Due to analytical levels falling below NMOCD closure criteria, no further immediate action is required.

Closure Request

After careful review, Pima requests that this incident, nGRL1004056899, be closed. Armstrong Energy Corporation 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 Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topo Map


3-Karst Map

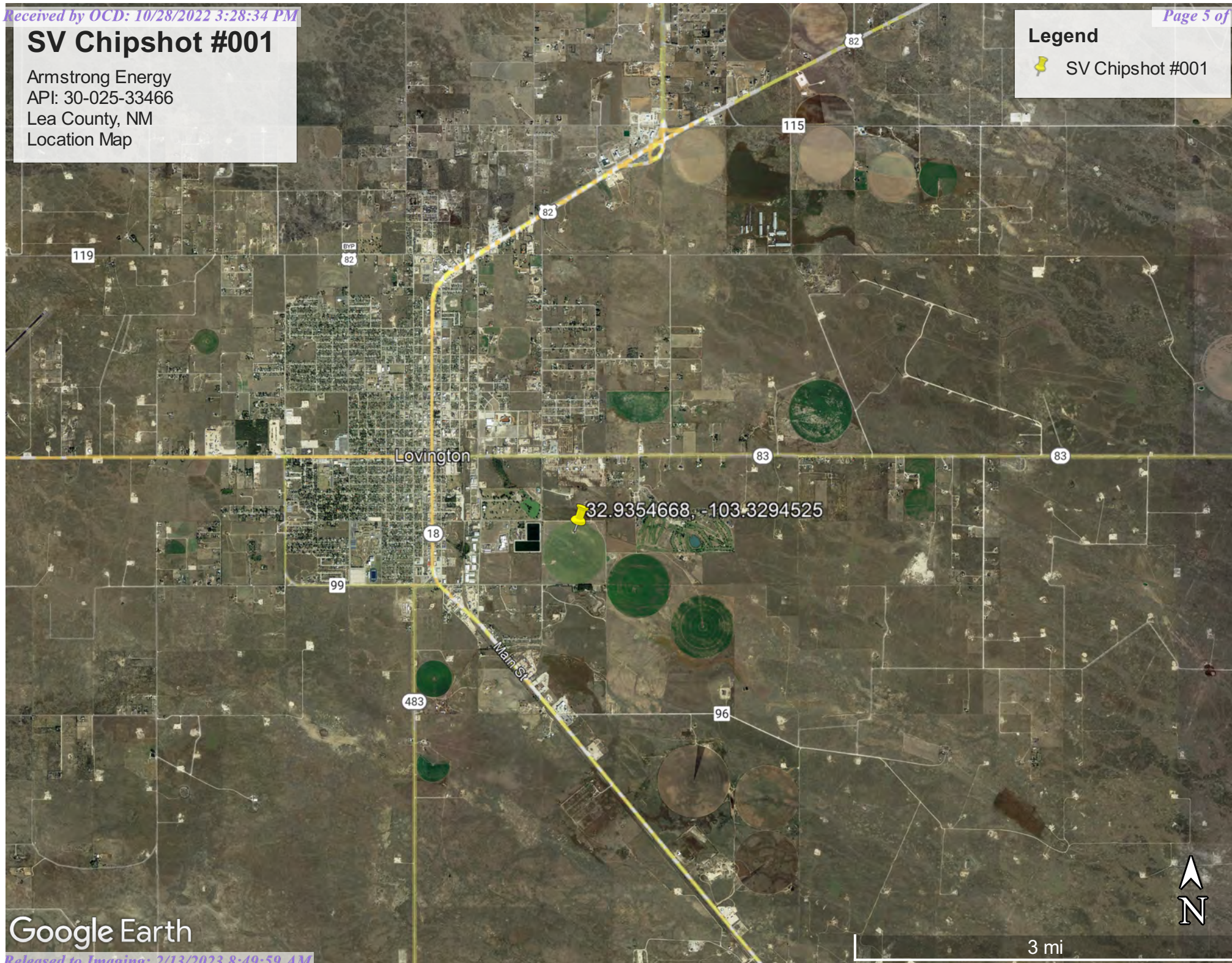
4-Site Map

SV Chipshot #001

Armstrong Energy
API: 30-025-33466
Lea County, NM
Location Map

Legend

 SV Chipshot #001



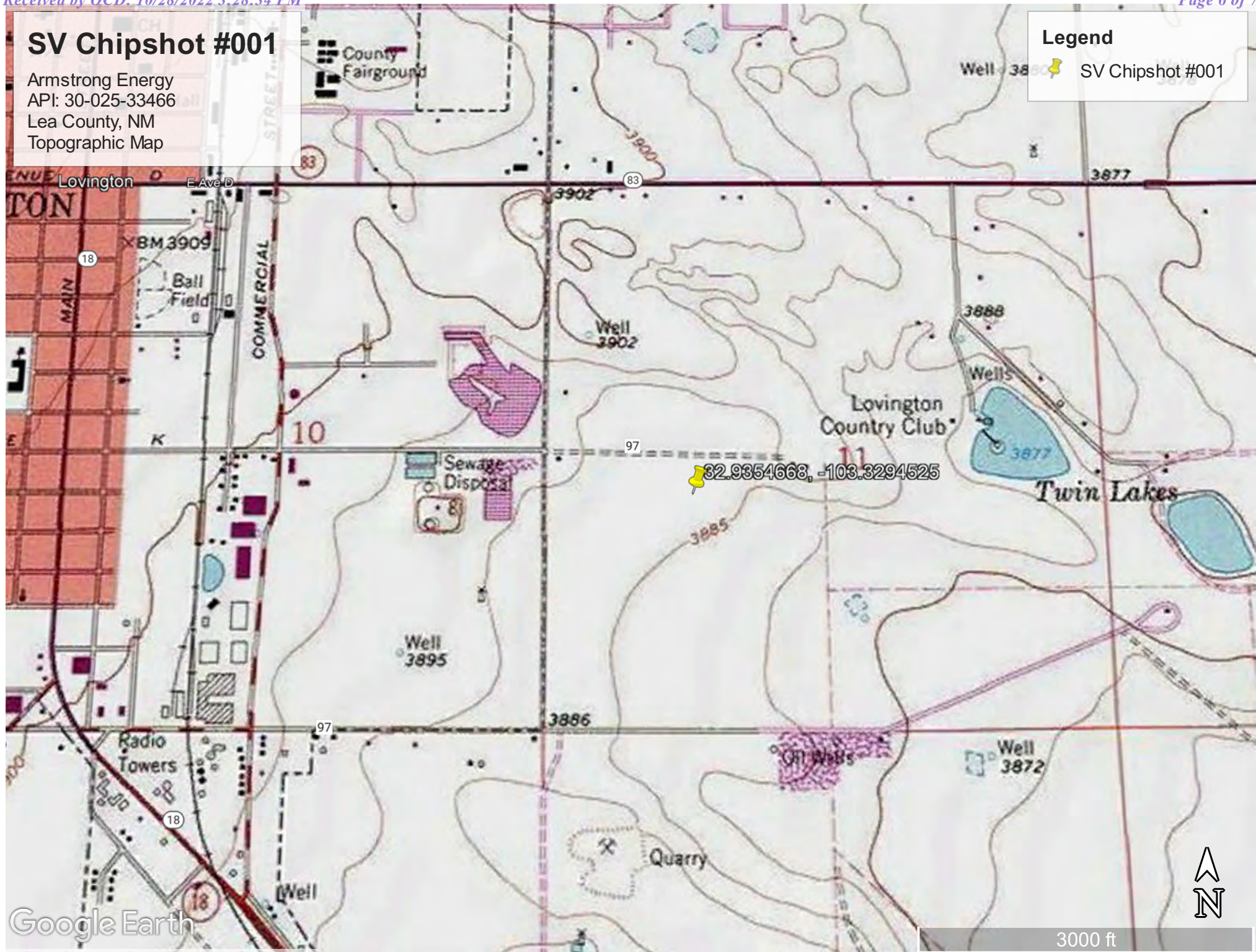
Google Earth

SV Chipshot #001

Armstrong Energy
API: 30-025-33466
Lea County, NM
Topographic Map

Legend

 SV Chipshot #001



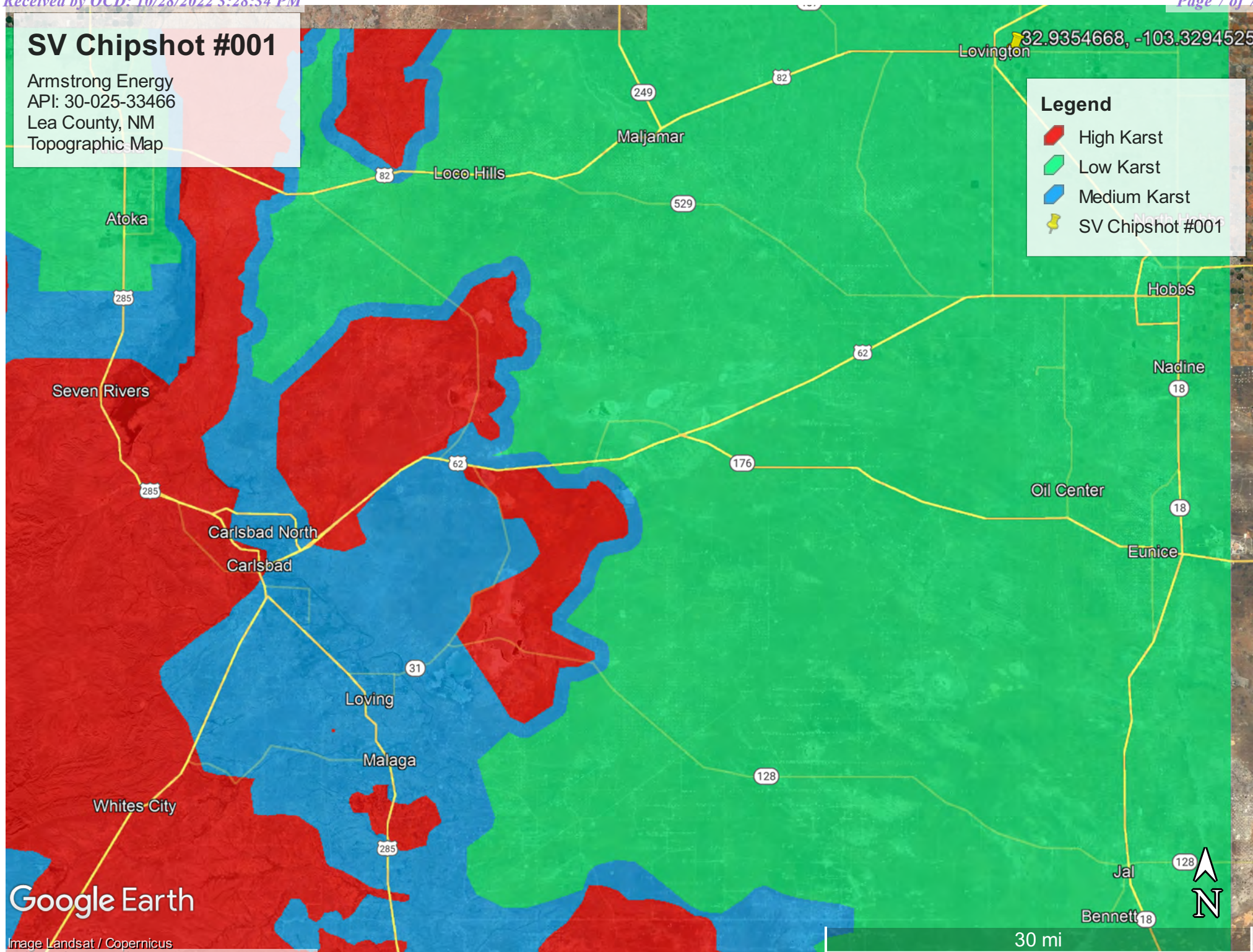
Google Earth

SV Chipshot #001

Armstrong Energy
API: 30-025-33466
Lea County, NM
Topographic Map

Legend

- High Karst
- Low Karst
- Medium Karst
- SV Chipshot #001



Google Earth

Image Landsat / Copernicus

SV Chipshot #001

Armstrong Energy
API:30-025-33466
Lea County, NM
Site Map

Legend

- Side Wall Samples
- Soil Samples





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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
L 07741		L	LE	2	1	3	11	16S	36E	656074	3645405*	110	142	78	64
L 00265		L	LE	1	1	3	11	16S	36E	655874	3645405*	307	120	45	75
L 00135		L	LE	3	3	1	11	16S	36E	655868	3645609*	392	98		
L 00135	R	L	LE	3	3	1	11	16S	36E	655868	3645609*	392	98		
L 00135 POD5		L	LE	3	3	1	11	16S	36E	655868	3645609*	392	146	58	88
L 04005		L	LE				11	16S	36E	656583	3645505*	425	95	75	20
L 00135 POD2		L	LE	1	3	1	11	16S	36E	655868	3645809*	537	110	75	35
L 00135 POD2	R	L	LE	1	3	1	11	16S	36E	655868	3645809*	537	110	75	35
L 04434		L	LE			1	11	16S	36E	656170	3645911*	540	100	74	26
L 06102		L	LE			1	11	16S	36E	656170	3645911*	540	100	75	25
L 00135 POD4		L	LE		1	4	11	16S	36E	656779	3645322*	601	149	75	74
L 00455		L	LE		2	4	10	16S	36E	655572	3645298*	611	95	46	49
L 00678 POD3	R	L	LE	1	3	4	11	16S	36E	656684	3645017*	616	146	67	79
L 00678 POD4	R	L	LE	1	3	4	11	16S	36E	656684	3645017*	616	212	160	52
L 14522 POD1		L	LE	4	2	4	10	16S	36E	655570	3645263	618	79	64	15
L 04058 POD1		L	LE	2	4	2	10	16S	36E	655665	3645801*	670	202	68	134
L 00135 POD3		L	LE		3	2	11	16S	36E	656774	3645725*	692	125	78	47
L 05014		L	LE		4	2	10	16S	36E	655566	3645702*	697	216	66	150
L 04058 POD3		L	LE	1	2	4	10	16S	36E	655471	3645397*	708	215	50	165
L 03901		L	LE	3	2	4	10	16S	36E	655471	3645197*	728	104	66	38
L 12778 POD1		L	LE	1	2	1	14	16S	36E	656243	3644623	749	195		
L 00678	R	L	LE		3	4	11	16S	36E	656785	3644918*	756	95		
L 00245 POD5		L	LE	2	2	1	14	16S	36E	656342	3644624	762	186		
L 00499 POD4		L	LE		4	4	10	16S	36E	655578	3644894*	766	248	110	138
L 05685		L	LE		1	1	11	16S	36E	655963	3646114*	774	115	80	35

Average Depth to Water: **74 feet**

Minimum Depth: **45 feet**

Maximum Depth: **160 feet**

Record Count: 25

UTMNAD83 Radius Search (in meters):

Easting (X): 656179

Northing (Y): 3645370.33

Radius: 806


*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	L 14522 POD1	4	2	4	10	16S	36E	655570	3645263 
x									
Driller License:	1698	Driller Company:				KANDY KANE ENT. LLC			
Driller Name:	KURT PORTER								
Drill Start Date:	08/22/2018	Drill Finish Date:				08/22/2018		Plug Date:	
Log File Date:	09/07/2018	PCW Rcv Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:	4.00	Depth Well:				79 feet		Depth Water:	64 feet
x									
Water Bearing Stratifications:					Top	Bottom	Description		
					52	79	Sandstone/Gravel/Conglomerate		
x									
Casing Perforations:					Top	Bottom			
					59	79			

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.

10/14/22 9:19 AM

POINT OF DIVERSION SUMMARY



[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.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. [Read more.](#)
- [Full News](#) 

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 325622103191501

Minimum number of levels = 1

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

USGS 325622103191501 16S.36E.11.241131

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°56'23", Longitude 103°19'16" NAD27

Land-surface elevation 3,886.00 feet above NGVD29

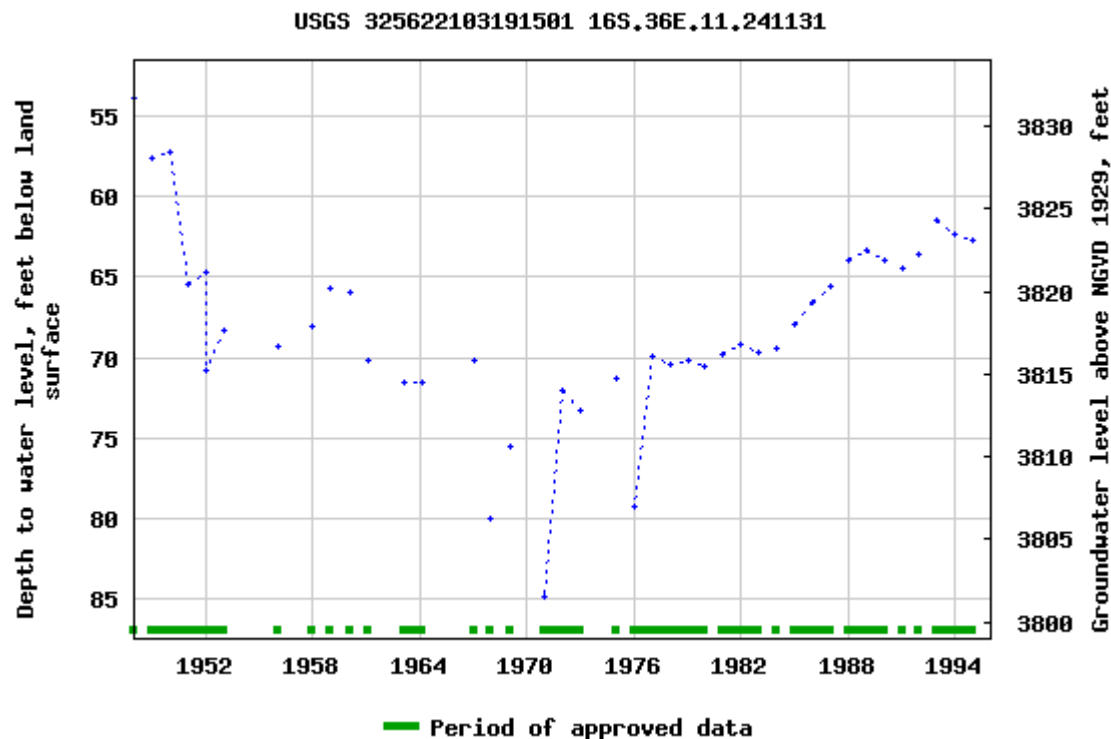
The depth of the well is 100 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) 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](#)

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[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: 2022-09-15 12:52:10 EDT

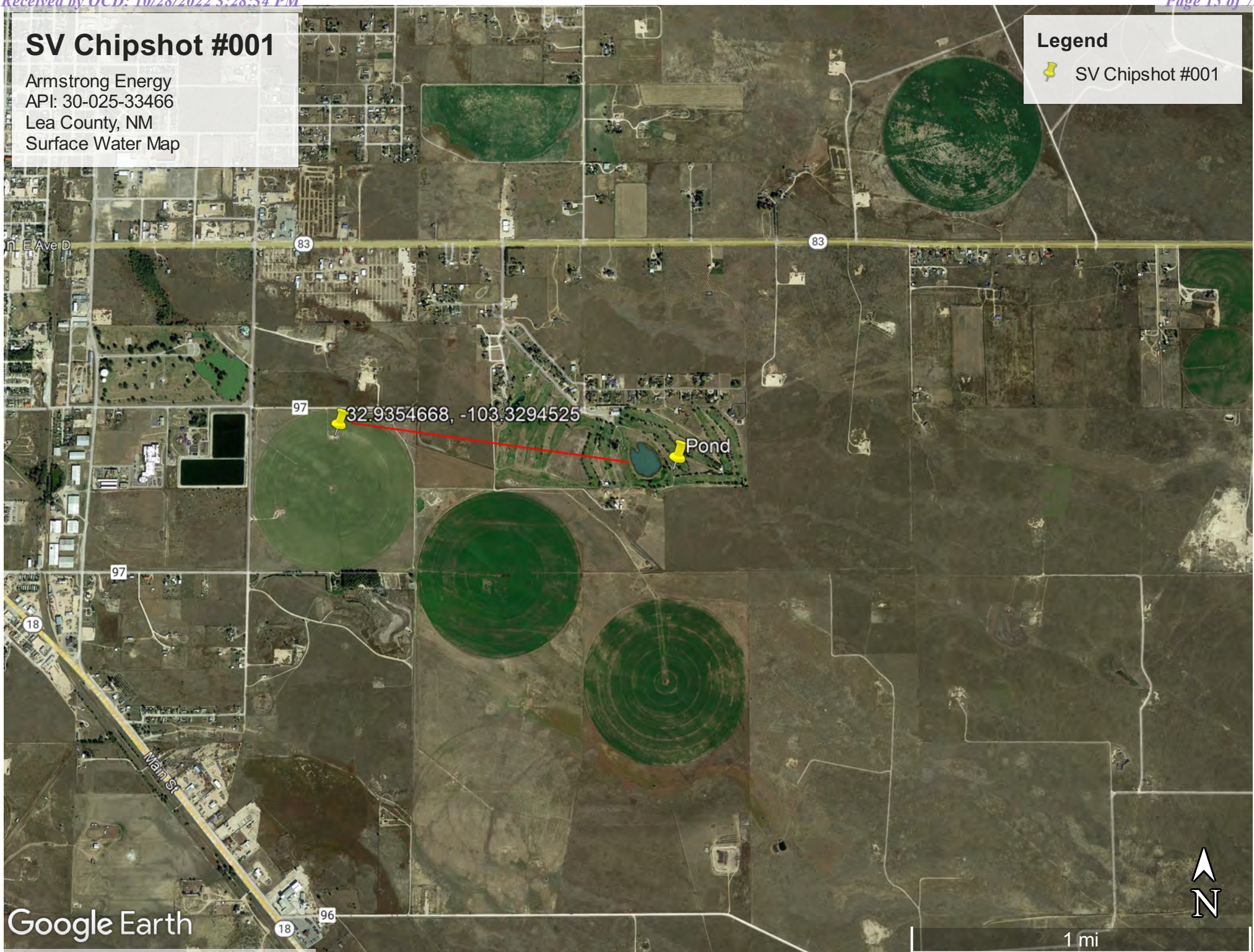
0.57 0.49 nadww01

SV Chipshot #001

Armstrong Energy
API: 30-025-33466
Lea County, NM
Surface Water Map

Legend

 SV Chipshot #001



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Portales loam, 0 to 1 percent slopes---Lea County, New Mexico

Lea County, New Mexico

Ph—Portales loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5t2

Elevation: 2,600 to 5,300 feet

Mean annual precipitation: 16 to 21 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales and similar soils: 85 percent

Minor components: 15 percent

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

Description of Portales

Setting

Landform: Playa steps, interdunes, plains

Down-slope shape: Convex, linear, concave

Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

Ap - 0 to 15 inches: loam

Bk1 - 15 to 35 inches: clay loam

Bk2 - 35 to 43 inches: loam

Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Map Unit Description: Portales loam, 0 to 1 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Minor Components

Midessa

Percent of map unit: 10 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Posey

Percent of map unit: 3 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Acuff

Percent of map unit: 2 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

National Flood Hazard Layer FIRMette



103°20'5"W 32°56'23"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
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/15/2022 at 1:00 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.

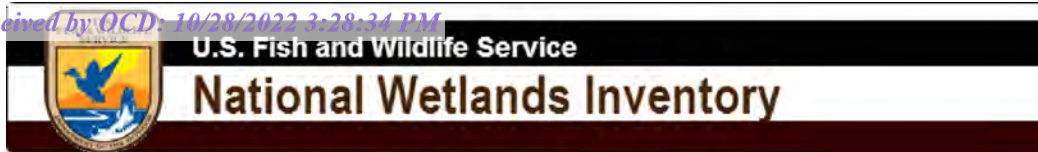
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

103°19'27"W 32°55'53"N

Released to Imaging: 2/13/2023 8:49:59 AM

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020








Wetlands Map



September 15, 2022

Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Pima Environmental Services

Appendix C

C-141 Form

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	nGRL1004056899
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Armstrong Energy Corporation	OGRID
Contact Name: Kyle Alpers	Contact Telephone: 575-626-2727
Contact email: kalpers@aecnm.com	Incident # (assigned by OCD): nGRL1004056899
Contact mailing address	

Location of Release Source

Latitude 32.9354668 _____ Longitude -103.3294525
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: SV Chipshot #001	Site Type: Produced Water
Date Release Discovered: 02/08/2010	API# (if applicable): 30-025-33466

Unit Letter	Section	Township	Range	County
K	11	16S	36E	Lea

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): 0	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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:

A small non-reportable produced water release occurred. While in the process of remediating the release, historical impact was discovered. Soil removal was commenced to a depth of 2 feet. Samples were collected and the results discussed with Geoff Leking of the NMOCD.

Incident ID	nGRL1004056899
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>64</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?	<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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nGRL1004056899
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: Jeffery Tew Title: Operations Engineer

Signature:  Date: 10/28/2022

email: jtew@aecnm.com Telephone: 575-625-2222

OCD Only

Received by: Jocelyn Harimon Date: 10/28/2022

Incident ID	nGRL1004056899
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: Jeffery Tew

Title: Operations Engineer

Signature: Jeffery Tew

Date: 10/28/2022

email: jtew@aecnm.com

Telephone: 575-625-2222

OCD Only

Received by: Jocelyn Harimon

Date: 10/28/2022

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: Brittany Hall

Date: 2/13/2023

Printed Name: Brittany Hall

Title: Environmental Specialist



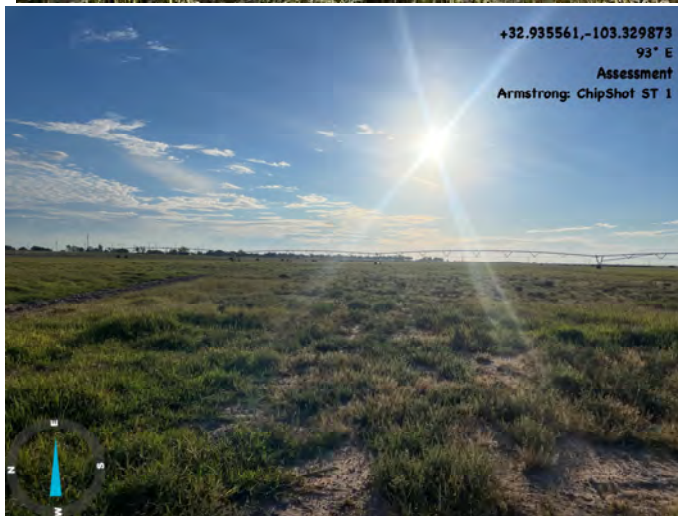
Pima Environmental Services

Appendix D

Photographic Documentation



SITE PHOTOGRAPHS
PIMA ENVIRONMENTAL
SV Chipshot #001



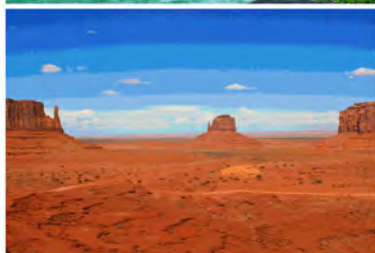


Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: SV Chipshot #001 - Armstrong

Work Order: E210030

Job Number: 21064-0001

Received: 10/7/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/13/22

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: 10/13/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: SV Chipshot #001 - Armstrong
Workorder: E210030
Date Received: 10/7/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2022 10:30:00AM, under the Project Name: SV Chipshot #001 - Armstrong.

The analytical test results summarized in this report with the Project Name: SV Chipshot #001 - Armstrong 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
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/22 09:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E210030-01A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S1 - 4'	E210030-02A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S2 - 1'	E210030-03A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S2 - 4'	E210030-04A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S3 - 1'	E210030-05A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S3 - 4'	E210030-06A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S4 - 1'	E210030-07A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S4 - 4'	E210030-08A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S5 - 1'	E210030-09A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S5 - 4'	E210030-10A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S6 - 1'	E210030-11A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S6 - 4'	E210030-12A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S7 - 1'	E210030-13A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S7 - 4'	E210030-14A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S8 - 1'	E210030-15A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S8 - 4'	E210030-16A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S9 - 1'	E210030-17A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S9 - 4'	E210030-18A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S10 - 1'	E210030-19A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
S10 - 4'	E210030-20A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
SW1	E210030-21A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
SW2	E210030-22A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
SW3	E210030-23A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
SW4	E210030-24A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
BG 1	E210030-25A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.
BG 2	E210030-26A	Soil	10/04/22	10/07/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S1 - 1'

E210030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241099	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2242024	
Chloride	ND	20.0	1	10/11/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S1 - 4'

E210030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.2 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S2 - 1'

E210030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.2 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S2 - 4'

E210030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.2 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S3 - 1'

E210030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		126 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S3 - 4'

E210030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S4 - 1'

E210030-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S4 - 4'

E210030-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S5 - 1'

E210030-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S5 - 4'

E210030-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.1 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241099	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2242024	
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S6 - 1'

E210030-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S6 - 4'

E210030-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S7 - 1'

E210030-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S7 - 4'

E210030-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S8 - 1'

E210030-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2242001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.7 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241099	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2242024	
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S8 - 4'

E210030-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S9 - 1'

E210030-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S9 - 4'

E210030-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S10 - 1'

E210030-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

S10 - 4'

E210030-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2242001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241099
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/11/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	10/10/22	10/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242024
Chloride	ND	20.0	1	10/11/22	10/12/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

SW1

E210030-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.9 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241100
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242007
Chloride	ND	20.0	1	10/10/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

SW2

E210030-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.5 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241100
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242007
Chloride	ND	20.0	1	10/10/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

SW3

E210030-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241116	
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.6 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241100	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2242007	
Chloride	ND	20.0	1	10/10/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

SW4

E210030-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.1 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241100
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242007
Chloride	ND	20.0	1	10/10/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

BG 1

E210030-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.3 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241100
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242007
Chloride	ND	20.0	1	10/10/22	10/11/22	



Sample Data

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

Project Name: SV Chipshot #001 - Armstrong
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
10/13/2022 9:41:45AM

BG 2

E210030-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Benzene	ND	0.0250	1	10/10/22	10/11/22	
Ethylbenzene	ND	0.0250	1	10/10/22	10/11/22	
Toluene	ND	0.0250	1	10/10/22	10/11/22	
o-Xylene	ND	0.0250	1	10/10/22	10/11/22	
p,m-Xylene	ND	0.0500	1	10/10/22	10/11/22	
Total Xylenes	ND	0.0250	1	10/10/22	10/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/22	10/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/10/22	10/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241100
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/22	10/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/22	10/10/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/10/22	10/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2242007
Chloride	ND	20.0	1	10/10/22	10/11/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

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 (2241116-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

LCS (2241116-BS1)

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

Benzene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	4.19	0.0250	5.00		83.8	70-130			
Toluene	4.51	0.0250	5.00		90.3	70-130			
o-Xylene	4.27	0.0250	5.00		85.4	70-130			
p,m-Xylene	8.51	0.0500	10.0		85.1	70-130			
Total Xylenes	12.8	0.0250	15.0		85.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.48		8.00		106	70-130			

LCS Dup (2241116-BS1)

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

Benzene	5.39	0.0250	5.00		108	70-130	0.267	20	
Ethylbenzene	4.17	0.0250	5.00		83.5	70-130	0.392	20	
Toluene	4.51	0.0250	5.00		90.1	70-130	0.163	20	
o-Xylene	4.27	0.0250	5.00		85.4	70-130	0.0703	20	
p,m-Xylene	8.46	0.0500	10.0		84.6	70-130	0.604	20	
Total Xylenes	12.7	0.0250	15.0		84.8	70-130	0.425	20	
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

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 (2242001-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.40		8.00		105	70-130			

LCS (2242001-BS1)

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

Benzene	4.70	0.0250	5.00		93.9	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.3	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.75	0.0250	5.00		94.9	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	14.1	0.0250	15.0		94.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130			

LCS Dup (2242001-BSD1)

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

Benzene	4.85	0.0250	5.00		97.0	70-130	3.20	20	
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130	2.83	20	
Toluene	4.91	0.0250	5.00		98.1	70-130	3.13	20	
o-Xylene	4.90	0.0250	5.00		98.0	70-130	3.14	20	
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130	2.68	20	
Total Xylenes	14.5	0.0250	15.0		96.7	70-130	2.84	20	
Surrogate: 4-Bromochlorobenzene-PID	8.45		8.00		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

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 (2241116-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		84.1	70-130			

LCS (2241116-BS2)

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

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.76		8.00		84.4	70-130			

LCS Dup (2241116-BSD2)

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

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130	2.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

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 (2242001-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

LCS (2242001-BS2)

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

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			

LCS Dup (2242001-BSD2)

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

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130	2.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: SV Chipshot #001 - Armstrong Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 10/13/2022 9:41:45AM
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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 (2241099-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2241099-BS1)

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

Matrix Spike (2241099-MS1)

Source: E210030-12

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2241099-MSD1)

Source: E210030-12

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	1.62	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

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 (2241100-BLK1)

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.8		50.0		106	50-200			

LCS (2241100-BS1)

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	190	25.0	250		76.0	38-132			
Surrogate: <i>n</i> -Nonane	42.6		50.0		85.1	50-200			

Matrix Spike (2241100-MS1)

Source: E210031-02

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	174	25.0	250	ND	69.6	38-132			
Surrogate: <i>n</i> -Nonane	39.0		50.0		78.1	50-200			

Matrix Spike Dup (2241100-MSD1)

Source: E210031-02

Prepared: 10/10/22 Analyzed: 10/10/22

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.6	38-132	22.8	20	R3
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.0	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2242007-BLK1)					Prepared: 10/10/22 Analyzed: 10/11/22				
Chloride	ND	20.0							
LCS (2242007-BS1)					Prepared: 10/10/22 Analyzed: 10/11/22				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2242007-MS1)					Source: E210029-01		Prepared: 10/10/22 Analyzed: 10/11/22		
Chloride	270	20.0	250	ND	108	80-120			
Matrix Spike Dup (2242007-MSD1)					Source: E210029-01		Prepared: 10/10/22 Analyzed: 10/11/22		
Chloride	272	20.0	250	ND	109	80-120	0.835	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	SV Chipshot #001 - Armstrong	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/2022 9:41:45AM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2242024-BLK1)					Prepared: 10/11/22 Analyzed: 10/11/22				
Chloride	ND	20.0							
LCS (2242024-BS1)					Prepared: 10/11/22 Analyzed: 10/11/22				
Chloride	238	20.0	250		95.2	90-110			
Matrix Spike (2242024-MS1)					Source: E210030-01		Prepared: 10/11/22 Analyzed: 10/12/22		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2242024-MSD1)					Source: E210030-01		Prepared: 10/11/22 Analyzed: 10/12/22		
Chloride	253	20.0	250	ND	101	80-120	0.0119	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:	SV Chipshot #001 - Armstrong	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/13/22 09:41

- R3

The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND

Analyte NOT DETECTED at or above the reporting limit
- NR

Not Reported
- RPD

Relative Percent Difference
- DNI

Did Not Ignite

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

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

Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services Project: SV Chipshot #001 - Armstrong Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Pima Address: City, State, Zip: Phone: Email: Pima Project # 19-7					Lab Use Only Lab WO# E210030 Job Number 21004-0001 Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDCC NM BGDCC TX					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X										
														Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:00	10/4/22	S	1	S1-1'	1															
9:05				S1-4'	2															
9:10				S2-1'	3															
9:15				S2-4'	4															
9:20				S3-1'	5															
9:25				S3-4'	6															
9:30				S4-1'	7															
9:35				S4-4'	8															
9:40				S5-1'	9															
9:45				S5-4'	10															
Additional Instructions: Bill TO Pima																				
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) <u>Audriana Benavidez</u> Date <u>10-4-22</u> Time <u>12:00</u> Received by: (Signature) <u>Bill To Pima</u> Date <u>10-6-22</u> Time <u>3:1</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>10-6-22</u> Time <u>4:1</u> Received by: (Signature) <u>Chelle Chelle</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>10-6-22</u> Time <u>4:1</u> Received by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</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: SV Chipshot #101 - Armstrong Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Pima Address: City, State, Zip: Phone: Email: Pima Project # 19-7					Lab Use Only Lab WOH: E 2/00.30 Job Number: 210604-0001					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
					Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BDOC NM BDOC TX					State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:50	10/4/22	S	1	S6-1'	11															
9:55				S6-4'	12															
10:00				S7-1'	13															
10:05				S7-4'	14															
10:10				S8-1'	15															
10:15				S8-4'	16															
10:20				S9-1'	17															
10:25				S9-4'	18															
10:30				S10-1'	19															
10:35				S10-4'	20															
Additional Instructions: Bill To Pima																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Relinquished by: (Signature) <u>Audriana Benavides</u> Date <u>10/4/22</u> Time <u>10:10</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Received by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Received by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Received by: (Signature) <u>[Signature]</u> Date <u>10/7/22</u> Time <u>10:30</u>																				
Lab Use Only Received on Ice: <u>Y</u> / N 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: 10/7/2022 11:22:19AM

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:	10/07/22 10:30	Work Order ID:	E210030
Phone:	(575) 631-6977	Date Logged In:	10/06/22 16:34	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	10/13/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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 154770

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 154770
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	2/13/2023