

Incident ID	NRM2014352847
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>330</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

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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: Dale Woodall Title: EHS ProfessionalSignature: Dale Woodall Date: 11/8/2022email: dale.woodall@dm.com Telephone: 405-318-4697**OCD Only**Received by: Jocelyn Harimon Date: 11/08/2022

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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: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 11/8/2022

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 11/08/2022

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: Ashley Maxwell Date: 2/03/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



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

November 7, 2022

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

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

Re: Site Assessment, Remediation, and Closure Report
North Thistle 3 CTB 1
API No. N/A
GPS: Latitude 32.329836 Longitude -103.554195
UL P, Sec. 3, T23S, R33E
Lea County, NM
NMOCD Ref. No. NRM2014352847

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production, LLC. (Devon) to perform a spill assessment, remediation, and submit this closure report for a Crude Oil release that occurred at the North Thistle 3 CTB 1 (Thistle). The initial C-141 was submitted on January 8, 2020 (Appendix C). This incident was assigned Incident ID NRM2014352847 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Thistle is located approximately twenty-five (25) miles west of Eunice, NM. This spill site is in Unit P, Section 3, Township 23S, Range 33E, Latitude 32.329836 Longitude -103.554195, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of 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 Kermit-Palomas fine sands, 0 to 12 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 Thistle (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 330 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 325 feet BGS. The closest waterway Playa located approximately 8 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' (High Karst)	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

NRM2014352847: On December 9, 2019, the water dumped washed out and developed a leak causing fluid. The released fluids were calculated to be approximately 213.29 barrels (bbls) of Crude Oil. A vacuum truck was able to recover approximately 170 bbls of total fluid from the impacted area.

Site Assessment and Soil Sampling Results

On April 21, 2020, and August 8, 2020, SESI mobilized personnel to the site to assess the area. SESI sampled the impacted area. Laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

4-21-22 & 8-18-20 Soil Sample Results

Analyte	Method	AH-1 @ 2'	AH-1 @ 3'
		4/21/20	8/18/20
		mg/kg	mg/kg
Chloride	SM4500CI-B	ND	ND
DRO	TPH 8015M	590	ND
MRO	TPH 8015M	230	ND
GRO	TPH 8015M	8.4	ND
Benzene	BTEX 8021B	N/A	ND
Toluene	BTEX 8021B	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	ND
Total Xylenes	BTEX 8021B	N/A	ND

Analyte	Method	AH-2 @ SURFACE	AH-2 @ 1'	AH-2 @ 2'
		8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	420	350	ND
DRO	TPH 8015M	7400	4500	ND
MRO	TPH 8015M	4000	1800	ND
GRO	TPH 8015M	280	690	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	4.1	6.2	N/A
Ethylbenzene	BTEX 8021B	6	14	N/A
Total Xylenes	BTEX 8021B	26	69	N/A

Analyte	Method	AH-3 @ 2'	AH-3 @ 3'
		4/21/20	8/18/20
		mg/kg	mg/kg
Chloride	SM4500CI-B	ND	ND
DRO	TPH 8015M	90	ND
MRO	TPH 8015M	51	ND
GRO	TPH 8015M	ND	ND
Benzene	BTEX 8021B	N/A	ND
Toluene	BTEX 8021B	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	ND
Total Xylenes	BTEX 8021B	N/A	ND

Analyte	Method	AH-4 @ 2'	AH-4 @ 3'
		4/21/20	8/18/20
		mg/kg	mg/kg
Chloride	SM4500CI-B	1900	ND
DRO	TPH 8015M	ND	ND
MRO	TPH 8015M	ND	ND
GRO	TPH 8015M	ND	ND
Benzene	BTEX 8021B	N/A	ND
Toluene	BTEX 8021B	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	ND
Total Xylenes	BTEX 8021B	N/A	ND

Analyte	Method	AH-5 @ SURFACE	AH-5 @ 1'	AH-5 @ 2'
		8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	2500	1400	ND
DRO	TPH 8015M	7100	2900	ND
MRO	TPH 8015M	5600	1700	ND
GRO	TPH 8015M	64	30	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	0.32	ND	N/A
Ethylbenzene	BTEX 8021B	0.67	0.18	N/A
Total Xylenes	BTEX 8021B	1.8	0.81	N/A

Analyte	Method	AH-6 @ 2'	AH-6 @ 3'
		4/21/20	8/18/20
		mg/kg	mg/kg
Chloride	SM4500CI-B	ND	ND
DRO	TPH 8015M	500	ND
MRO	TPH 8015M	220	ND
GRO	TPH 8015M	ND	ND
Benzene	BTEX 8021B	N/A	ND
Toluene	BTEX 8021B	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	ND
Total Xylenes	BTEX 8021B	N/A	ND

		AH-7 @ SURFACE	AH-7 @ 1'	AH-7 @ 2'
Analyte	Method	8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	7100	410	ND
DRO	TPH 8015M	15000	7000	ND
MRO	TPH 8015M	14000	2900	ND
GRO	TPH 8015M	36	330	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	0.089	0.36	N/A
Ethylbenzene	BTEX 8021B	0.59	3.8	N/A
Total Xylenes	BTEX 8021B	3.7	28	N/A

		AH-8 @ SURFACE	AH-8 @ 1'	AH-8 @ 2'
Analyte	Method	8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	2100	200	ND
DRO	TPH 8015M	15000	8600	ND
MRO	TPH 8015M	12000	3800	ND
GRO	TPH 8015M	100	790	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	0.25	0.95	N/A
Ethylbenzene	BTEX 8021B	1.5	9.7	N/A
Total Xylenes	BTEX 8021B	9.7	66	N/A

		AH-9 @ SURFACE	AH-9 @ 1'	AH-9 @ 2'
Analyte	Method	8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	2000	ND	ND
DRO	TPH 8015M	12000	470	52
MRO	TPH 8015M	6800	240	ND
GRO	TPH 8015M	66	ND	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	ND	ND	N/A
Ethylbenzene	BTEX 8021B	0.39	ND	N/A
Total Xylenes	BTEX 8021B	4.2	ND	N/A

		AH-10 @ SURFACE	AH-10 @ 1'	AH-10 @ 2'
Analyte	Method	8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	8700	2000	ND
DRO	TPH 8015M	9000	730	ND
MRO	TPH 8015M	8600	400	ND
GRO	TPH 8015M	10	ND	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	ND	ND	N/A
Ethylbenzene	BTEX 8021B	ND	ND	N/A
Total Xylenes	BTEX 8021B	0.58	0.12	N/A

		AH-11 @ SURFACE	AH-11 @ 1'	AH-11 @ 2'
Analyte	Method	8/18/20	8/18/20	4/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	2500	73	ND
DRO	TPH 8015M	8600	400	ND
MRO	TPH 8015M	6200	180	ND
GRO	TPH 8015M	13	ND	ND
Benzene	BTEX 8021B	ND	ND	N/A
Toluene	BTEX 8021B	ND	ND	N/A
Ethylbenzene	BTEX 8021B	ND	ND	N/A
Total Xylenes	BTEX 8021B	0.42	ND	N/A

		AH-12 @ 2'	AH-12 @ 3'
Analyte	Method	4/21/20	8/18/20
		mg/kg	mg/kg
Chloride	SM4500Cl-B	ND	ND
DRO	TPH 8015M	120	ND
MRO	TPH 8015M	61	ND
GRO	TPH 8015M	ND	ND
Benzene	BTEX 8021B	N/A	ND
Toluene	BTEX 8021B	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	ND
Total Xylenes	BTEX 8021B	N/A	ND

		AH13 SURFACE EAST	AH-13 @ 1' EAST	H-13, EAST + 2FT E
Analyte	Method	5/1/20	5/1/20	8/18/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B	ND	N/A	ND
DRO	TPH 8015M	220	ND	ND
MRO	TPH 8015M	210	ND	ND
GRO	TPH 8015M	ND	ND	ND
Benzene	BTEX 8021B	N/A	N/A	ND
Toluene	BTEX 8021B	N/A	N/A	ND
Ethylbenzene	BTEX 8021B	N/A	N/A	ND
Total Xylenes	BTEX 8021B	N/A	N/A	ND

ND- Analyte Not Detected

Remediation Activities

On September 30, 2022, Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the area to various depths. Pima personnel collected samples to verify all contaminated soil had been removed. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On September 30, 2022, after sending a 48-hour notification (Appendix C), Pima collected confirmation samples of the excavated areas. Laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

9-30-22 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <100')								
DEVON ENERGY -NORTH THISTLE 3 CTB 1								
Sample Date: 9/30/22		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	CI mg/kg
CSW 1	2'	ND	ND	ND	ND	ND	0	ND
CSW 2	2'	ND	ND	ND	ND	ND	0	ND
CSW 3	2'	ND	ND	ND	ND	ND	0	ND
CSW 4	2'	ND	ND	ND	ND	ND	0	ND
CSW 5	2'	ND	ND	ND	ND	ND	0	ND
CSW 6	2'	ND	ND	ND	ND	ND	0	ND
CSW 7	2'	ND	ND	ND	ND	ND	0	ND
CSW 8	2'	ND	ND	ND	ND	ND	0	ND
CSW 9	2'	ND	ND	ND	ND	ND	0	ND
CSW 10	2'	ND	ND	ND	ND	ND	0	ND
CSW 11	2'	ND	ND	ND	ND	ND	0	ND
CSW 12	2'	ND	ND	ND	ND	ND	0	ND
CSW 13	2'	ND	ND	ND	ND	ND	0	ND
CSW 14	2'	ND	ND	ND	ND	ND	0	ND
CSW 15	2'	ND	ND	ND	ND	ND	0	ND
CSW 16	2'	ND	ND	ND	ND	ND	0	ND
CSW 17	2'	ND	ND	ND	ND	ND	0	ND
CSW 18	2'	ND	ND	ND	ND	ND	0	ND
CSW 19	2'	ND	ND	ND	ND	ND	0	ND
CSW 20	2'	ND	ND	ND	ND	ND	0	ND
CSW 21	2'	ND	ND	ND	ND	ND	0	ND
CSW 22	2'	ND	ND	ND	ND	ND	0	ND
CSW 23	2'	ND	ND	ND	ND	ND	0	ND
CSW 24	2'	ND	ND	ND	ND	ND	0	ND
CSW 25	2'	ND	ND	ND	ND	ND	0	ND
CSW 26	2'	ND	ND	ND	ND	ND	0	ND
CS 1	2'	ND	ND	ND	ND	ND	0	ND
CS 2	2'	ND	ND	ND	ND	ND	0	ND
CS 3	2'	ND	ND	ND	ND	ND	0	ND
CS 4	2'	ND	ND	ND	ND	ND	0	ND
CS 5	2'	ND	ND	ND	ND	ND	0	ND
CS 6	2'	ND	ND	ND	ND	ND	0	ND
CS 7	2'	ND	ND	ND	ND	ND	0	ND
CS 8	2'	ND	ND	ND	ND	ND	0	ND
CS 9	2'	ND	ND	ND	ND	ND	0	ND
CS 10	2'	ND	ND	ND	ND	ND	0	ND
CS 11	2'	ND	ND	ND	ND	ND	0	ND
CS 12	2'	ND	ND	ND	ND	ND	0	ND
CS 13	2'	ND	ND	ND	ND	ND	0	ND
CS 14	2'	ND	ND	ND	ND	ND	0	ND
CS 15	2'	ND	ND	ND	ND	ND	0	ND
CS 16	2'	ND	ND	ND	ND	ND	0	ND
CS 17	2'	ND	ND	ND	ND	ND	0	ND
CS 18	2'	ND	ND	ND	ND	ND	0	ND
CS 19	2'	ND	ND	ND	ND	ND	0	ND
CS 20	2'	ND	ND	ND	ND	ND	0	ND
CS 21	2'	ND	ND	ND	ND	ND	0	ND
CS 22	2'	ND	ND	ND	ND	ND	0	ND
CS 23	2'	ND	ND	ND	ND	ND	0	ND
CS 24	2'	ND	ND	ND	ND	ND	0	ND

CS 25	2'	ND	ND	ND	ND	ND	0	ND
CS 26	2'	ND	ND	ND	ND	ND	0	ND
CS 27	2'	ND	ND	ND	ND	ND	0	ND
CS 28	2'	ND	ND	ND	ND	ND	0	ND
CS 29	2'	ND	ND	ND	ND	ND	0	ND
CS 30	2'	ND	ND	ND	ND	ND	0	ND
CS 31	2'	ND	ND	ND	ND	ND	0	ND
CS 32	2'	ND	ND	ND	ND	ND	0	ND
CS 33	2'	ND	ND	ND	ND	ND	0	ND
CS 34	2'	ND	ND	ND	ND	ND	0	ND
CS 35	2'	ND	ND	ND	ND	ND	0	ND
CS 36	2'	ND	ND	ND	ND	ND	0	ND
CS 37	2'	ND	ND	ND	ND	ND	0	ND
CS 38	2'	ND	ND	ND	ND	ND	0	ND
CS 39	2'	ND	ND	ND	ND	ND	0	ND
CS 40	2'	ND	ND	ND	ND	ND	0	ND
CS 41	2'	ND	ND	ND	ND	ND	0	ND
CS 42	2'	ND	ND	ND	ND	ND	0	ND
CS 43	2'	ND	ND	ND	ND	ND	0	ND
CS 44	2'	ND	ND	ND	ND	ND	0	ND
CS 45	2'	ND	ND	ND	ND	ND	0	ND
CS 46	2'	ND	ND	ND	ND	ND	0	ND
CS 47	2'	ND	ND	ND	ND	ND	0	ND
CS 48	2'	ND	ND	ND	ND	ND	0	ND
CS 49	2'	ND	ND	ND	ND	ND	0	ND
CS 50	2'	ND	ND	ND	ND	ND	0	ND
CS 51	2'	ND	ND	ND	ND	ND	0	ND
CS 52	2'	ND	ND	ND	ND	ND	0	ND
CS 53	2'	ND	ND	ND	ND	ND	0	ND
CS 54	2'	ND	ND	ND	ND	ND	0	ND
CS 55	2'	ND	ND	ND	ND	ND	0	ND

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 an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NRM2014352847 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

Gio Gomez

Gio Gomez
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 and 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 Site Map

North Thistle 3 CTB 1

Devon Energy
API: N/A
Lea County, NM
Location Map

Legend

 32.329836, -103.554195

32.329836, -103.554195

Oil Center

Eunice

Google Earth




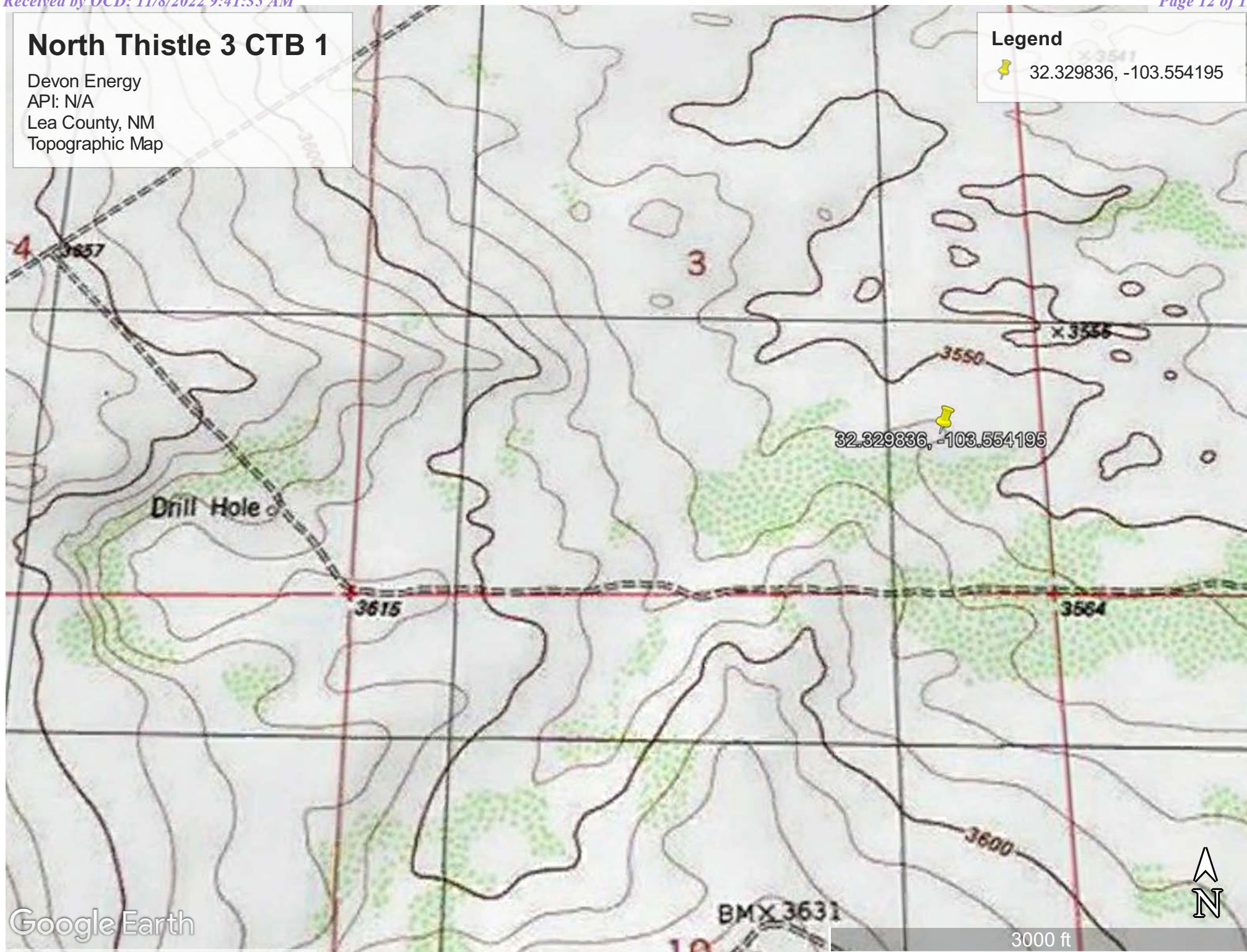
10 mi

North Thistle 3 CTB 1

Devon Energy
API: N/A
Lea County, NM
Topographic Map

Legend

 32.329836, -103.554195

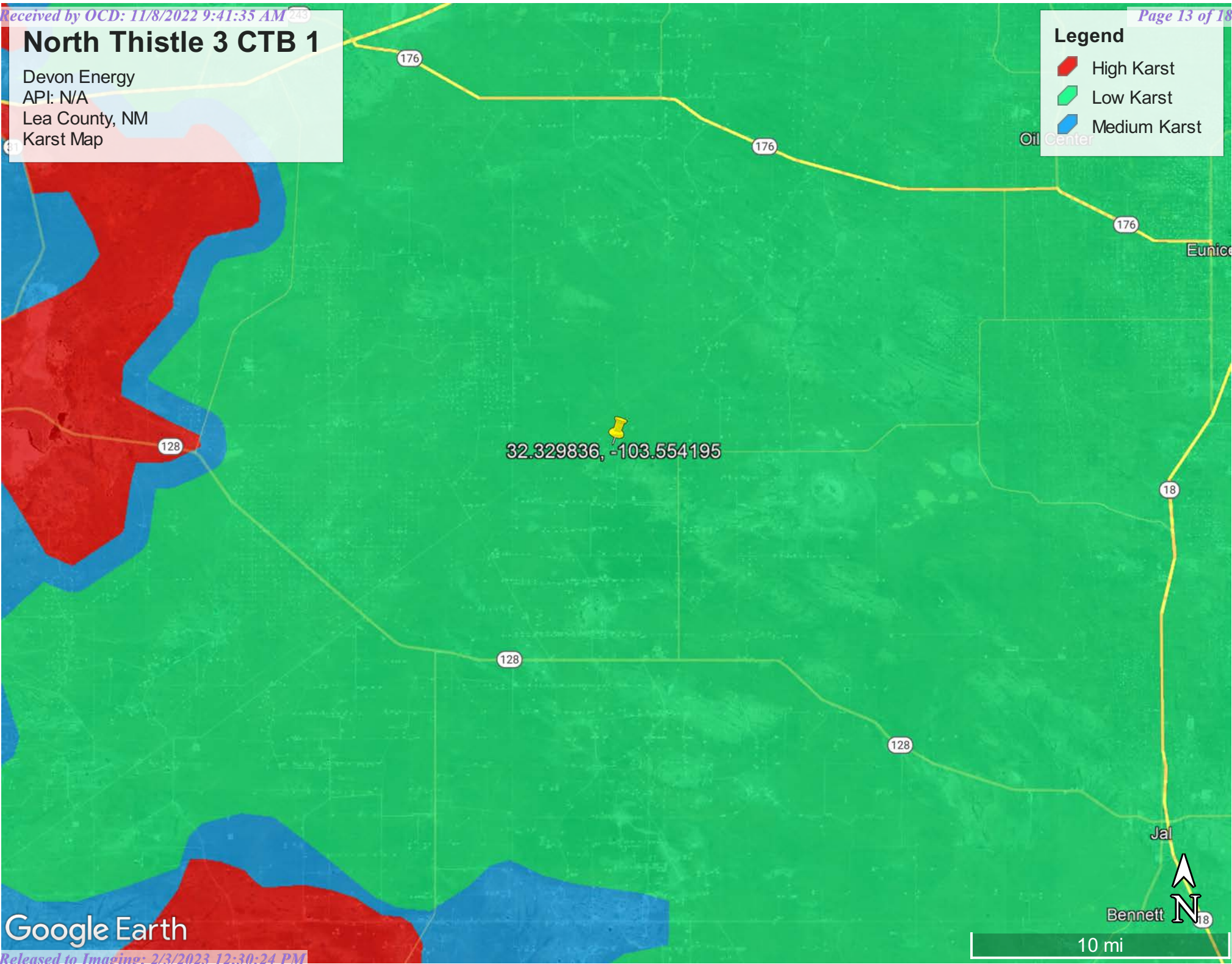


Google Earth

North Thistle 3 CTB 1

Devon Energy
API: N/A
Lea County, NM
Karst Map

- Legend**
- High Karst
 - Low Karst
 - Medium Karst







Google Earth

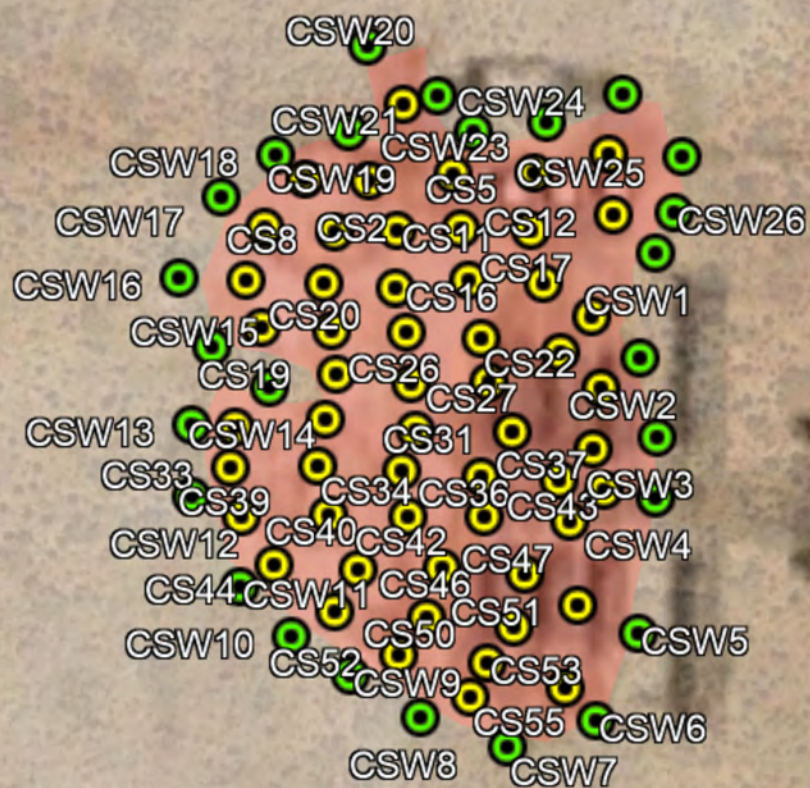



North Thistle 3 CTB 1

Devon Energy
API: N/A
Lea County, NM
Confirmation Sample Map

Legend

-  Sidewalls Samples
-  North Thistles 3 CTB 1
-  Sample
-  spill area



 North Thistles 3 CTB 1



100 ft



Pima Environmental Services

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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_03582 POD1	C	LE	4	1	1	14	23S	33E	636583	3575666		2303	590		
C_04664 POD1	CUB	LE	4	1	4	15	23S	33E	635784	3574818		3109	55		
CP 00278 POD1	CP	LE	1	3	4	06	23S	34E	640413	3577897		4333	640		
CP 01130 POD1	CP	LE	2	1	2	07	23S	34E	640662	3577558		4596	27		
CP 01130 POD2	CP	LE	2	1	2	07	23S	34E	640674	3577549		4608	27		
CP 01886 POD1	CP	LE	4	1	4	07	23S	34E	640646	3576545		4766			
C_04353 POD1	CUB	ED	4	2	2	24	23S	33E	639474	3574098		5106	603	330	273
CP 00872 POD1	CP	LE	1	1	1	08	23S	34E	641225	3577504*		5161	494	305	189
CP 01075 POD1	CP	LE	1	1	1	08	23S	34E	641278	3577525		5212	430	20	410
CP 01502 POD1	CP	LE	4	3	3	05	23S	34E	641316	3577635		5243	648	200	448

Average Depth to Water: **213 feet**

Minimum Depth: **20 feet**

Maximum Depth: **330 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 636079.96

Northing (Y): 3577914.2

Radius: 5500

*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.

11/4/22 9:14 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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[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 =

- 321843103315101

Minimum number of levels = 1

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

USGS 321843103315101 23S.33E.12.312423

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'06", Longitude 103°31'53" NAD83

Land-surface elevation 3,531.00 feet above NGVD29

The depth of the well is 400 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.

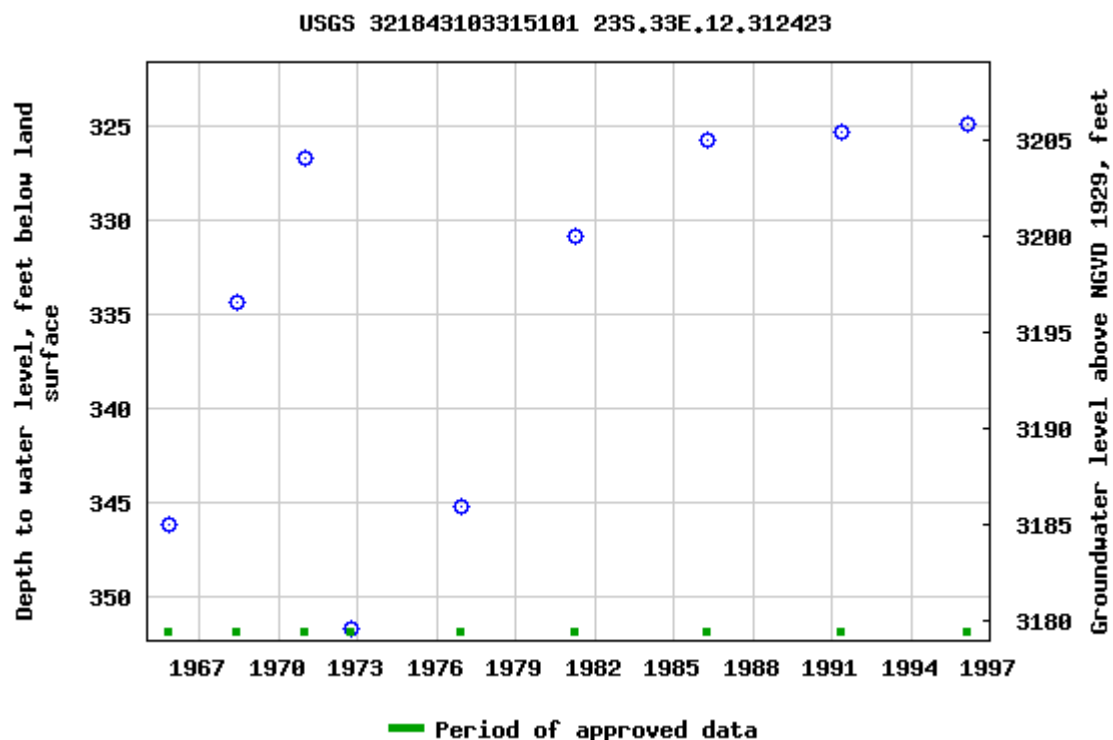
Output formats

[Table of data](#)

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[Graph of data](#)

[Reselect period](#)



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

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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: 2022-07-19 15:58:03 EDT

0.59 0.51 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

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United States

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321917103303001

Minimum number of levels = 1

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

USGS 321917103303001 23S.34E.06.43314

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'17", Longitude 103°30'30" NAD27

Land-surface elevation 3,480 feet above NAVD88

The depth of the well is 640 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.

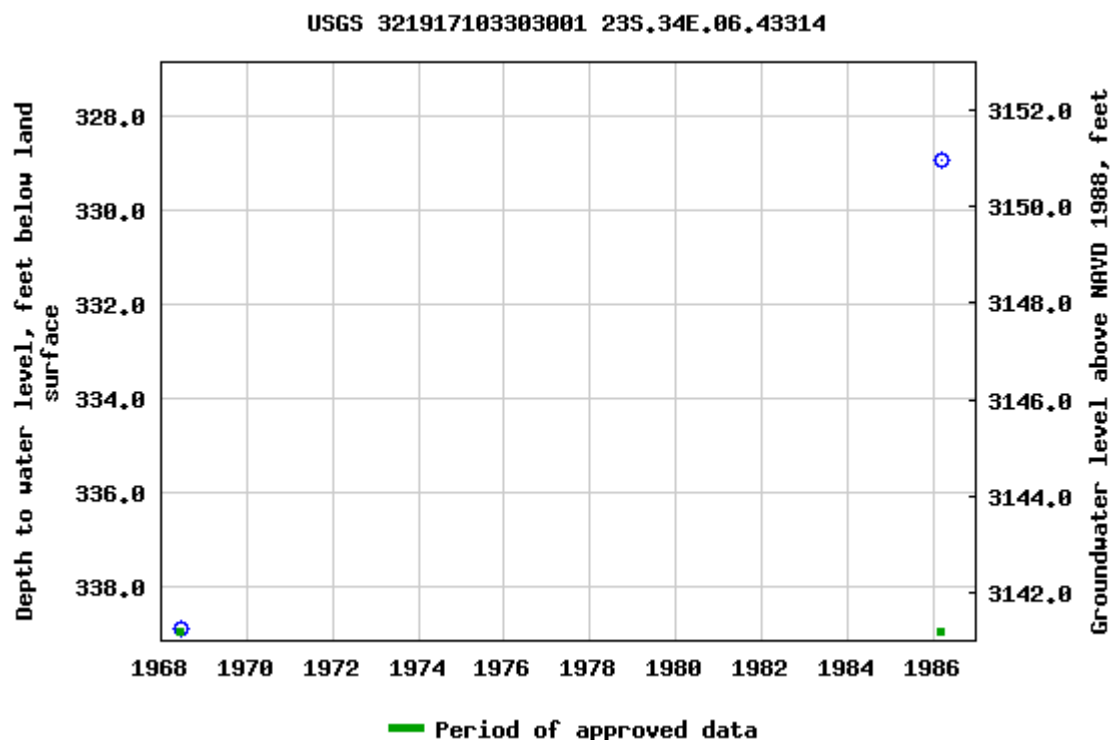
Output formats

[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.

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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: 2022-07-19 15:59:00 EDT

0.57 0.49 nadww01

North Thistle 3 CTB 1

Devon Energy
API: N/A
Lea County, NM
Surface Water Map

Legend

-  8.17 Miles
-  North Thistle 3 CTB 1

North Thistle 3 CTB 1

Salt Playa

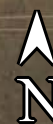
128

128

128

Google Earth

8 mi





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent

Palomas and similar soils: 20 percent

Minor components: 10 percent

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

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, linear, convex

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear, concave
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 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: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 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: Negligible

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: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

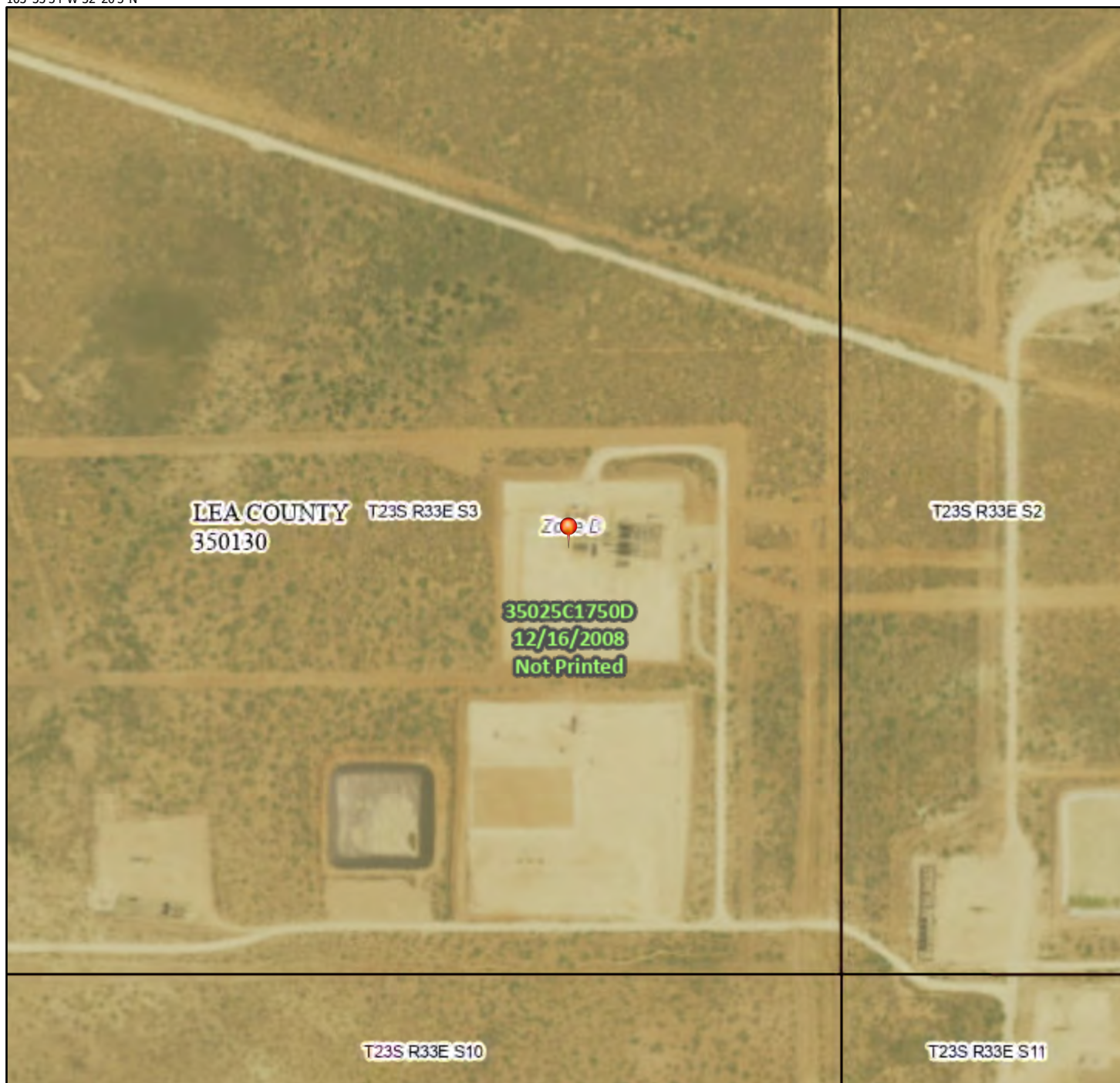
Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°33'34"W 32°20'3"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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/4/2022 at 3:21 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.

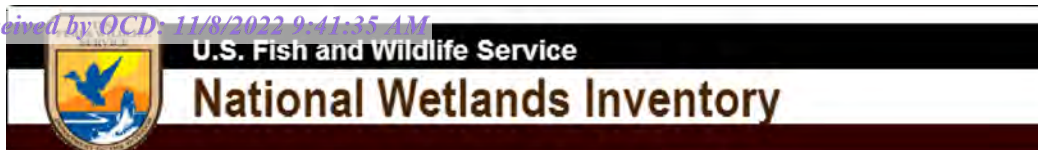
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

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

103°32'56"W 32°19'32"N

Released to Imaging: 2/3/2023 12:30:24 PM

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



Wetlands Map



November 4, 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

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	NRM2014352847
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.329836 Longitude -103.554195
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Thistle 3 CTB 1	Site Type Oil
Date Release Discovered 12/9/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	3	23S	33E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 213.29	Volume Recovered (bbls) 170
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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 The water dumped washed out and developed a hole causing fluid release. All fluid remained on pad.

Incident ID	NRM2014352847
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 is considered a major release because it is over 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification sent to Jim Griswold, emnrd-ocd-district1spills, and Ryan Mann from Amanda Davis on 12/10/2019.	

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 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: Fluid release was not in containment.	
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: Kendra DeHoyos	Title: EHS Associate
Signature: <u>Kendra DeHoyos</u>	Date: <u>1/8/2020</u>
email: <u>kendra.dehoyos@dvn.com</u>	Telephone: <u>575-748-3371</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>5/22/2020</u>

Spill Volume (Bbls) CalculatorInputs in **blue**, Outputs in **red****Contaminated Soil measurement**

Area (square feet)	Depth(inches)
<u>12183</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>1015.250</u>
Barrels of Soil Impacted	<u>180.97</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>27.15</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	27.15

Free Standing Fluid Only

Area (square feet)	Depth(inches)
<u>12183</u>	<u>1.000</u>
Standing fluid	<u>180.971</u>
Total fluids spilled	<u>208.117</u>

Inputs in *blue*, Outputs in *red*

Contaminated Soil measurement

Area (square feet)	Depth(inches)
<u>9295</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>193.646</u>
Barrels of Soil Impacted	<u>34.52</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>5.18</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>5.18</u>

Free Standing Fluid Only

Area (square feet)	Depth(inches)
Standing fluid	<u>0.000</u>
<u>Total fluids spilled</u>	<u>5.178</u>

Incident ID	NRM2014352847
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>330</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	NRM2014352847
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: Dale Woodall Title: EHS Professional

Signature: _____ Date: _____

email: dale.woodall@dn.com Telephone: 405-318-4697

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2014352847
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: Dale Woodall Title: EHS Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: OCD Date: 11/8/2022

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: _____ Date: 2/03/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



Gio PimaOil <gio@pimaoil.com>

Confirmation Samples North Thistle 3 CTB 1

1 message

Gio PimaOil <gio@pimaoil.com>

Fri, Nov 4, 2022 at 11:32 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Morning,

Pima Environmental would like to notify you that we collected confirmation samples at the North Thistle 3 CTB 1 for incident **NRM2014352847**. The notification must not have been received due to a network error. Pima personnel were on site for this sampling event on Friday, September 30, 2022. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



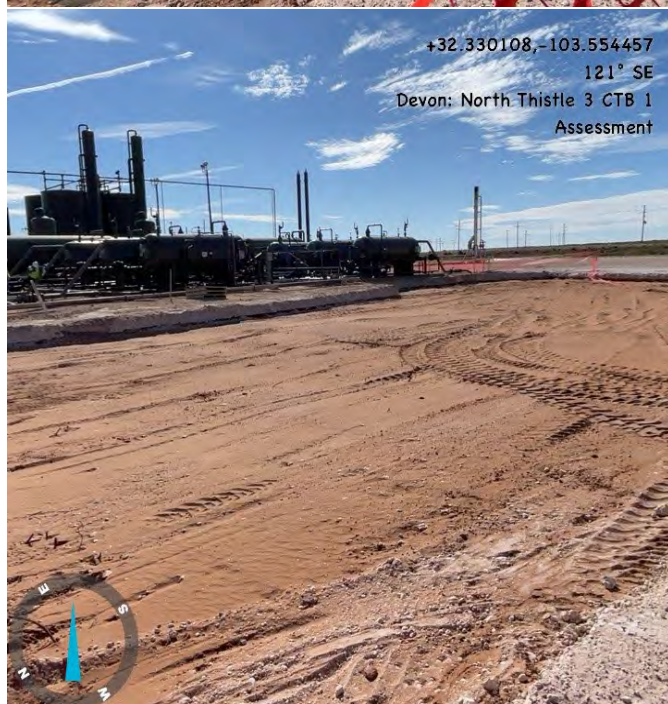
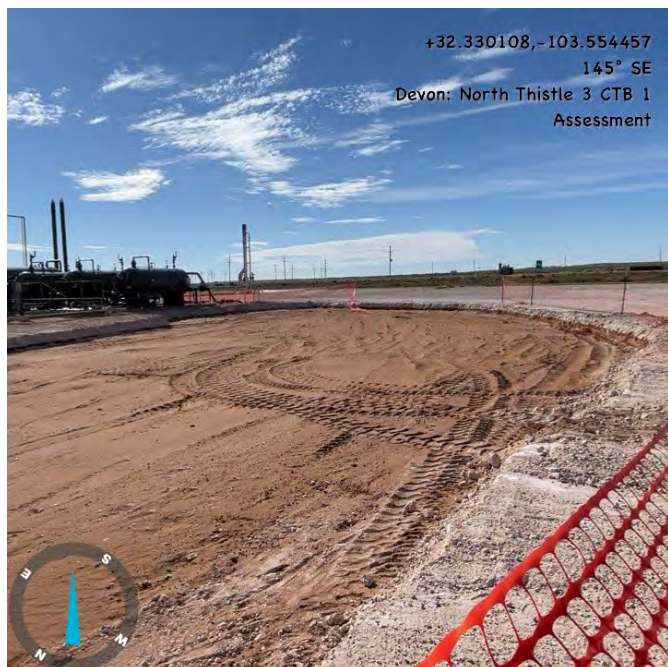
Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
NORTH THISTLE 3 CTB 1**









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: North Thistle 3 CTB1

Work Order: E209189

Job Number: 01058-0007

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/4/22

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: 10/4/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: North Thistle 3 CTB1
Workorder: E209189
Date Received: 10/3/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: North Thistle 3 CTB1.

The analytical test results summarized in this report with the Project Name: North Thistle 3 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW 6	E209189-01A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 7	E209189-02A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 8	E209189-03A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 9	E209189-04A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 10	E209189-05A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 11	E209189-06A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 12	E209189-07A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 13	E209189-08A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 14	E209189-09A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 15	E209189-10A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 16	E209189-11A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 17	E209189-12A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 18	E209189-13A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 19	E209189-14A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 20	E209189-15A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 21	E209189-16A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 22	E209189-17A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 23	E209189-18A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 24	E209189-19A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 25	E209189-20A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 26	E209189-21A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 6

E209189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.3 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		95.3 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 7

E209189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 8

E209189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 9

E209189-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.4 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 10

E209189-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.4 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 11

E209189-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 12

E209189-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 13

E209189-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 14

E209189-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		91.4 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 15

E209189-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.8 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 16

E209189-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.0 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		98.7 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 17

E209189-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 18

E209189-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		80.7 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 19

E209189-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		81.6 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 20

E209189-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.3 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241015
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		83.9 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241011
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 21

E209189-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	81.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 22

E209189-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.7 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 23

E209189-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 24

E209189-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 25

E209189-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.8 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241015	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241011	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:42:15PM

CSW 26

E209189-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	106 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	106 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240092
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	87.3 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:42:15PM
PO Box 247	Project Number:	01058-0007	
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 (2240098-BLK1)

Prepared: 10/02/22 Analyzed: 10/02/22

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	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

LCS (2240098-BS1)

Prepared: 10/02/22 Analyzed: 10/02/22

Benzene	2.28	0.0250	2.50		91.0	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.26	0.0250	2.50		90.4	70-130			
o-Xylene	2.14	0.0250	2.50		85.5	70-130			
p,m-Xylene	4.27	0.0500	5.00		85.4	70-130			
Total Xylenes	6.41	0.0250	7.50		85.4	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS Dup (2240098-BSD1)

Prepared: 10/02/22 Analyzed: 10/02/22

Benzene	2.24	0.0250	2.50		89.5	70-130	1.68	23	
Ethylbenzene	2.23	0.0250	2.50		89.4	70-130	2.37	27	
Toluene	2.20	0.0250	2.50		88.0	70-130	2.65	24	
o-Xylene	2.09	0.0250	2.50		83.6	70-130	2.25	27	
p,m-Xylene	4.17	0.0500	5.00		83.5	70-130	2.29	27	
Total Xylenes	6.26	0.0250	7.50		83.5	70-130	2.27	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:42:15PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2241008-BLK1)

Prepared: 10/02/22 Analyzed: 10/03/22

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	8.15		8.00		102	70-130			

LCS (2241008-BS1)

Prepared: 10/02/22 Analyzed: 10/04/22

Benzene	5.60	0.0250	5.00		112	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.39	0.0500	10.0		93.9	70-130			
Total Xylenes	14.1	0.0250	15.0		94.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

LCS Dup (2241008-BS1)

Prepared: 10/02/22 Analyzed: 10/04/22

Benzene	5.07	0.0250	5.00		101	70-130	10.0	20	
Ethylbenzene	4.19	0.0250	5.00		83.7	70-130	10.1	20	
Toluene	4.43	0.0250	5.00		88.6	70-130	10.5	20	
o-Xylene	4.27	0.0250	5.00		85.5	70-130	9.93	20	
p,m-Xylene	8.50	0.0500	10.0		85.0	70-130	9.93	20	
Total Xylenes	12.8	0.0250	15.0		85.1	70-130	9.93	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:42:15PM

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 (2240098-BLK1)

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

LCS (2240098-BS2)

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS Dup (2240098-BSD2)

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0		112	70-130	8.84	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:42:15PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2241008-BLK1) Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00		81.5	70-130			

LCS (2241008-BS2) Prepared: 10/02/22 Analyzed: 10/04/22

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.60		8.00		82.5	70-130			

LCS Dup (2241008-BSD2) Prepared: 10/02/22 Analyzed: 10/04/22

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130	0.203	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:42:15PM

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 (2240092-BLK1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.3		50.0		105	50-200			

LCS (2240092-BS1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	209	25.0	250		83.4	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			

Matrix Spike (2240092-MS1)

Source: E209184-03

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike Dup (2240092-MSD1)

Source: E209184-03

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.0	38-132	1.24	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:42:15PM

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 (2241015-BLK1)

Prepared: 10/03/22 Analyzed: 10/04/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.2	50-200			

LCS (2241015-BS1)

Prepared: 10/03/22 Analyzed: 10/04/22

Diesel Range Organics (C10-C28)	198	25.0	250		79.2	38-132			
Surrogate: n-Nonane	39.4		50.0		78.8	50-200			

Matrix Spike (2241015-MS1)

Source: E209189-14

Prepared: 10/03/22 Analyzed: 10/04/22

Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.5	38-132			
Surrogate: n-Nonane	34.1		50.0		68.1	50-200			

Matrix Spike Dup (2241015-MSD1)

Source: E209189-14

Prepared: 10/03/22 Analyzed: 10/04/22

Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.4	38-132	1.05	20	
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:42:15PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2241009-BLK1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	ND	20.0							
LCS (2241009-BS1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	245	20.0	250		98.1	90-110			
LCS Dup (2241009-BSD1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	245	20.0	250		98.2	90-110	0.0905	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:42:15PM

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 (2241011-BLK1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	ND	20.0							
LCS (2241011-BS1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2241011-BSD1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	257	20.0	250		103	90-110	1.64	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:	North Thistle 3 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:42

- 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.



Page 7 of 9

Project Information

Chain of Custody

Client: <u>Pima Environmental Services</u>					Bill To		Lab Use Only		TAT				EPA Program				
Project: <u>North Thisle 3 CTB1</u>					Attention: <u>Devon Energy</u>		Lab WO# <u>E209189</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>Tom Bynum</u>					Address:						<input checked="" type="checkbox"/>						
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip										RCRA		
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:												
Phone: <u>580-748-1613</u>					Email:												
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>1-175</u>												
Report due by:																	
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	State		Remarks
1:00	9/30/22	8	1	CSW 6	1								<input checked="" type="checkbox"/>				
1:05				CSW 7	2												
1:10				CSW 8	3												
1:15				CSW 9	4												
1:20				CSW 10	5												
1:25				CSW 11	6												
1:30				CSW 12	7												
1:35				CSW 13	8												
1:40				CSW 14	9												
1:45				CSW 15	10												
Additional Instructions: <u>20829671</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) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>					
Date <u>9/30/22</u>												Date <u>9/30/22</u>					
Time <u>4:15</u>												Time <u>3:15</u>					
Relinquished by: (Signature) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>					
Date <u>9/30/22</u>												Date <u>10/3/22</u>					
Time <u>4:15</u>												Time <u>9:00</u>					
Relinquished by: (Signature) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>					
Date <u>9/30/22</u>												Date <u>10/3/22</u>					
Time <u>4:15</u>												Time <u>9:00</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 8 of 9

Client: <u>Pima Environmental Services</u>					Bill To		Lab Use Only				TAT				EPA Program		
Project: <u>North Tulsa 3 CTB 1</u>					Attention: <u>Devon Energy</u>		Lab WO# <u>E209189</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>Tom Bynum</u>					Address:		Analysis and Method								RCRA		
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip										State		
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		
Phone: <u>580-748-1613</u>					Email:		Chloride 300.0				BGDOC NM		BGDOC TX				
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>1-175</u>												
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks
1:50	9/30/22	S	1	CSW16	11												
1:55				CSW17	12												
2:00				CSW18	13												
2:05				CSW19	14												
2:10				CSW20	15												
2:15				CSW21	16												
2:20				CSW22	17												
2:25				CSW23	18												
2:30				CSW24	19												
2:35				CSW25	20												
Additional Instructions: <u>20829671</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>		9/30/22	3:00	<u>[Signature]</u>		9/30/22	3:15	Received on ice: <u>(Y)</u> N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
<u>[Signature]</u>		9-30-22	4:17	<u>[Signature]</u>		10/3/22	9:00										
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.																	

Chain of Custody



Envirotech Analytical Laboratory

Printed: 10/3/2022 10:22:11AM

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:	10/03/22 09:00	Work Order ID:	E209189
Phone:	(575) 631-6977	Date Logged In:	09/30/22 17:26	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/03/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project North Thistle 3 CTB 1 has been separated into multiple reports due to sample volume. Workorders are as follows: E209186, E209187, E209188, E209189.

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: North Thistle 3 CTB1

Work Order: E209188

Job Number: 01058-0007

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/4/22

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: 10/4/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: North Thistle 3 CTB1
Workorder: E209188
Date Received: 10/3/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: North Thistle 3 CTB1.

The analytical test results summarized in this report with the Project Name: North Thistle 3 CTB1 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
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Office: 505-632-1881
labadmin@envirotech-inc.com

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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:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS 41 2'	E209188-01A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 42 2'	E209188-02A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 43 2'	E209188-03A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 44 2'	E209188-04A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 45 2'	E209188-05A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 46 2'	E209188-06A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 47 2'	E209188-07A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 48 2'	E209188-08A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 49 2'	E209188-09A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 50 2'	E209188-10A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 51 2'	E209188-11A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 52 2'	E209188-12A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 53 2'	E209188-13A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 54 2'	E209188-14A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 55 2'	E209188-15A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 1	E209188-16A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 2	E209188-17A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 3	E209188-18A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 4	E209188-19A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CSW 5	E209188-20A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 41 2'

E209188-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/02/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/02/22	
Toluene	ND	0.0250	1	10/02/22	10/02/22	
o-Xylene	ND	0.0250	1	10/02/22	10/02/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/02/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	101 %	70-130		10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 42 2'

E209188-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/02/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/02/22	
Toluene	ND	0.0250	1	10/02/22	10/02/22	
o-Xylene	ND	0.0250	1	10/02/22	10/02/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/02/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		96.8 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 43 2'

E209188-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/02/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/02/22	
Toluene	ND	0.0250	1	10/02/22	10/02/22	
o-Xylene	ND	0.0250	1	10/02/22	10/02/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/02/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.6 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		93.0 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 44 2'

E209188-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/02/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/02/22	
Toluene	ND	0.0250	1	10/02/22	10/02/22	
o-Xylene	ND	0.0250	1	10/02/22	10/02/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/02/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		99.3 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 45 2'

E209188-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/02/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/02/22	
Toluene	ND	0.0250	1	10/02/22	10/02/22	
o-Xylene	ND	0.0250	1	10/02/22	10/02/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/02/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.1 %	70-130	10/02/22	10/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		99.5 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 46 2'

E209188-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		96.6 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 47 2'

E209188-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.3 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>						
		94.4 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 48 2'

E209188-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.0 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	95.1 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 49 2'

E209188-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		94.8 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 50 2'

E209188-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		95.8 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 51 2'

E209188-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		88.6 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 52 2'

E209188-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.5 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		98.4 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 53 2'

E209188-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 54 2'

E209188-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.7 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CS 55 2'

E209188-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CSW 1

E209188-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		84.4 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CSW 2

E209188-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.0 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CSW 3

E209188-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.9 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CSW 4

E209188-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.2 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241014	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2241013	
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:31:11PM

CSW 5

E209188-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.1 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241014
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
<i>Surrogate: n-Nonane</i>						
		98.6 %	50-200	10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241013
Chloride	ND	20.0	1	10/03/22	10/03/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:31:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2241003-BLK1)

Prepared: 10/02/22 Analyzed: 10/03/22

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	8.19		8.00		102	70-130			

LCS (2241003-BS1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	4.13	0.0250	5.00		82.5	70-130			
Toluene	4.38	0.0250	5.00		87.6	70-130			
o-Xylene	4.20	0.0250	5.00		84.0	70-130			
p,m-Xylene	8.37	0.0500	10.0		83.7	70-130			
Total Xylenes	12.6	0.0250	15.0		83.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	70-130			

LCS Dup (2241003-BS1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	5.49	0.0250	5.00		110	70-130	9.12	20	
Ethylbenzene	4.54	0.0250	5.00		90.7	70-130	9.46	20	
Toluene	4.81	0.0250	5.00		96.1	70-130	9.24	20	
o-Xylene	4.62	0.0250	5.00		92.5	70-130	9.57	20	
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130	9.42	20	
Total Xylenes	13.8	0.0250	15.0		92.2	70-130	9.47	20	
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:31:11PM

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 (2241003-BLK1)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.50		8.00		81.2	70-130			

LCS (2241003-BS2)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.4	70-130			

LCS Dup (2241003-BSD2)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130	5.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		8.00		84.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:31:11PM

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 (2241014-BLK1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	50-200			

LCS (2241014-BS1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	221	25.0	250		88.3	38-132			
Surrogate: <i>n</i> -Nonane	46.1		50.0		92.3	50-200			

Matrix Spike (2241014-MS1)

Source: E209188-14

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.6	38-132			
Surrogate: <i>n</i> -Nonane	44.4		50.0		88.8	50-200			

Matrix Spike Dup (2241014-MSD1)

Source: E209188-14

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.5	38-132	2.35	20	
Surrogate: <i>n</i> -Nonane	40.6		50.0		81.1	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:31:11PM

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 (2241013-BLK1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	ND	20.0							
LCS (2241013-BS1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2241013-BSD1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	253	20.0	250		101	90-110	0.0288	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:	North Thistle 3 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:31

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

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

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

Project Information

Chain of Custody

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: North TwisHe 3 CTB1					Attention: Devon Energy		Lab WO# E209188		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip										State	
City, State, Zip Hobbs, NM. 88240					Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
Phone: 580-748-1613					Email:		Chloride 300.0				BGDOC NM		BGDOC TX			
Email: tom@pimaoil.com					Pima Project # 1-175											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks										
11:20	9/30/22	S	1	CS 41 2'	1											
11:25				CS 42 2'	2											
11:30				CS 43 2'	3											
11:35				CS 44 2'	4											
11:40				CS 45 2'	5											
11:45				CS 46 2'	6											
11:50				CS 47 2'	7											
11:55				CS 48 2'	8											
12:00				CS 49 2'	9											
12:05				CS 50 2'	10											
Additional Instructions: 20829671																
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: Audriana Benavidez																
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				
Audriana Benavidez		9-30-22				[Signature]		9-30-22		3:15		Received on ice: (Y) / N				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3				
[Signature]		9-30-22		4:15		Caitlin Chute		10/3/22		9:00						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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.																

Chain of Custody



Envirotech Analytical Laboratory

Printed: 10/3/2022 10:13:18AM

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:	10/03/22 09:00	Work Order ID:	E209188
Phone:	(575) 631-6977	Date Logged In:	09/30/22 17:23	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/03/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project North Thistle 3 CTB 1 has been separated into multiple reports due to sample volume. Workorders are as follows: E209186, E209187, E209188, E209189.

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: North Thistle 3 CTB1

Work Order: E209187

Job Number: 01058-0007

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/4/22

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: 10/4/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: North Thistle 3 CTB1
Workorder: E209187
Date Received: 10/3/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: North Thistle 3 CTB1.

The analytical test results summarized in this report with the Project Name: North Thistle 3 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS 21 2'	E209187-01A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 22 2'	E209187-02A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 23 2'	E209187-03A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 24 2'	E209187-04A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 25 2'	E209187-05A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 26 2'	E209187-06A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 27 2'	E209187-07A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 28 2'	E209187-08A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 29 2'	E209187-09A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 30 2'	E209187-10A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 31 2'	E209187-11A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 32 2'	E209187-12A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 33 2'	E209187-13A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 34 2'	E209187-14A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 35 2'	E209187-15A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 36 2'	E209187-16A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 37 2'	E209187-17A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 38 2'	E209187-18A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 39 2'	E209187-19A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 40 2'	E209187-20A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 21 2'

E209187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 22 2'

E209187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 23 2'

E209187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	98.2 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 24 2'

E209187-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.3 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.3 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 25 2'

E209187-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.0 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.0 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	100 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 26 2'

E209187-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	98.4 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	98.4 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	98.0 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 27 2'

E209187-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	94.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	94.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	105 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 28 2'

E209187-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	97.6 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 29 2'

E209187-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	93.5 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 30 2'

E209187-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	94.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	94.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	91.7 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 31 2'

E209187-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	97.1 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 32 2'

E209187-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 33 2'

E209187-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 34 2'

E209187-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	102 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 35 2'

E209187-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.3 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.3 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	97.1 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 36 2'

E209187-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.8 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	101 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 37 2'

E209187-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	95.8 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 38 2'

E209187-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	95.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	97.9 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 39 2'

E209187-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.5 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	97.3 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:27:23PM

CS 40 2'

E209187-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.4 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.4 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241012
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/04/22	
Surrogate: n-Nonane	98.3 %	50-200		10/03/22	10/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241016
Chloride	ND	20.0	1	10/03/22	10/03/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:27:23PM
PO Box 247	Project Number:	01058-0007	
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 (2241002-BLK1)

Prepared: 10/02/22 Analyzed: 10/02/22

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	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.475		0.500		94.9	70-130			

LCS (2241002-BS1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.09	0.0250	2.50		83.6	70-130			
Toluene	2.08	0.0250	2.50		83.4	70-130			
o-Xylene	2.11	0.0250	2.50		84.6	70-130			
p,m-Xylene	4.20	0.0500	5.00		84.1	70-130			
Total Xylenes	6.32	0.0250	7.50		84.2	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.475		0.500		95.0	70-130			

LCS Dup (2241002-BSD1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	2.06	0.0250	2.50		82.5	70-130	4.18	23	
Ethylbenzene	1.95	0.0250	2.50		77.9	70-130	7.11	27	
Toluene	1.94	0.0250	2.50		77.5	70-130	7.36	24	
o-Xylene	1.98	0.0250	2.50		79.2	70-130	6.54	27	
p,m-Xylene	3.93	0.0500	5.00		78.6	70-130	6.78	27	
Total Xylenes	5.91	0.0250	7.50		78.8	70-130	6.70	27	
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:27:23PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2241002-BLK1)

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.475		0.500		94.9	70-130			

LCS (2241002-BS2)

Prepared: 10/02/22 Analyzed: 10/04/22

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS Dup (2241002-BSD2)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130	7.75	20	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:27:23PM

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 (2241012-BLK1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.1		50.0		108	50-200			

LCS (2241012-BS1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	50-200			

Matrix Spike (2241012-MS1)

Source: E209187-05

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: <i>n</i> -Nonane	50.9		50.0		102	50-200			

Matrix Spike Dup (2241012-MSD1)

Source: E209187-05

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	1.09	20	
Surrogate: <i>n</i> -Nonane	48.3		50.0		96.5	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:27:23PM

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 (2241016-BLK1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	ND	20.0							
LCS (2241016-BS1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	246	20.0	250		98.5	90-110			
LCS Dup (2241016-BSD1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	245	20.0	250		98.2	90-110	0.383	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:	North Thistle 3 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:27

- 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.



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Project Information

Chain of Custody

Client: Pima Environmental Services Project: North ThisHe 3 CTB1 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: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 1-175					Lab Use Only Lab WO# E 209187 Job Number 01058-0007 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					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA State NM CO UT AZ TX X	
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	Remarks						
9:40	9/30/22	S	1	CS 21 2'	1							X								
9:45				CS 22 2'	2															
9:50				CS 23 2'	3															
9:55				CS 24 2'	4															
10:00				CS 25 2'	5															
10:05				CS 26 2'	6															
10:10				CS 27 2'	7															
10:15				CS 28 2'	8															
10:20				CS 29 2'	9															
10:25				CS 30 2'	10															
Additional Instructions: 20829671 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: (Y) / N T1 T2 T3 AVG Temp °C 4												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		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 4 of 4

Client: Pima Environmental Services Project: North Thishe 3 (TB) 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: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 1-175					Lab Use Only Lab WO# E 209187 Job Number 01058-0007					TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
Analysis and Method										NM CO UT AZ TX X				State NM CO UT AZ TX						
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						
10:30	9/30/22	S	1	CS 31 2'	11							X								
10:35				CS 32 2'	12															
10:40				CS 33 2'	13															
10:45				CS 34 2'	14															
10:50				CS 35 2'	15															
10:55				CS 36 2'	16															
11:00				CS 37 2'	17															
11:05				CS 38 2'	18															
11:10				CS 39 2'	19															
11:15				CS 40 2'	20															
Additional Instructions: 20829671 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) <i>Audriana Benavidez</i> Date 9/30/22 Time 3:15 Relinquished by: (Signature) <i>Carla Chute</i> Date 10/3/22 Time 9:00 Relinquished by: (Signature) _____ Date _____ Time _____										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: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> 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: 10/3/2022 10:09:28AM

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:	10/03/22 09:00	Work Order ID:	E209187
Phone:	(575) 631-6977	Date Logged In:	09/30/22 17:18	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/03/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project North Thistle 3 CTB 1 has been separated into multiple reports due to sample volume. Workorders are as follows: E209186, E209187, E209188, E209189.

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: North Thistle 3 CTB1

Work Order: E209186

Job Number: 01058-0007

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/4/22

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: 10/4/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: North Thistle 3 CTB1
Workorder: E209186
Date Received: 10/3/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: North Thistle 3 CTB1.

The analytical test results summarized in this report with the Project Name: North Thistle 3 CTB1 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
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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:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS 1 2'	E209186-01A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 2 2'	E209186-02A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 3 2'	E209186-03A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 4 2'	E209186-04A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 5 2'	E209186-05A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 6 2'	E209186-06A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 7 2'	E209186-07A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 8 2'	E209186-08A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 9 2'	E209186-09A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 10 2'	E209186-10A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 11 2'	E209186-11A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 12 2'	E209186-12A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 13 2'	E209186-13A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 14 2'	E209186-14A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 15 2'	E209186-15A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 16 2'	E209186-16A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 17 2'	E209186-17A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 18 2'	E209186-18A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 19 2'	E209186-19A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.
CS 20 2'	E209186-20A	Soil	09/30/22	10/03/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 1 2'

E209186-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	107 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	107 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	110 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 2 2'

E209186-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	115 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 3 2'

E209186-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	117 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 4 2'

E209186-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	118 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 5 2'

E209186-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	118 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 6 2'

E209186-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	112 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 7 2'

E209186-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	116 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 8 2'

E209186-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	97.7 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 9 2'

E209186-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	104 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	104 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 10 2'

E209186-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	114 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 11 2'

E209186-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	105 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	103 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 12 2'

E209186-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.2 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	102 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 13 2'

E209186-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	103 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 14 2'

E209186-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	82.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	93.9 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	82.4 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	93.9 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	90.9 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 15 2'

E209186-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	86.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	93.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	86.8 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	93.6 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	98.9 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 16 2'

E209186-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	97.1 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	97.3 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/03/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 17 2'

E209186-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	115 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.0 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	115 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	96.4 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/04/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 18 2'

E209186-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene	87.9 %	70-130		10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130		10/02/22	10/03/22	
Surrogate: Toluene-d8	96.7 %	70-130		10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane	99.3 %	50-200		10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/04/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 19 2'

E209186-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene		108 %	70-130	10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	10/02/22	10/03/22	
Surrogate: Toluene-d8		90.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene		108 %	70-130	10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	10/02/22	10/03/22	
Surrogate: Toluene-d8		90.6 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane		91.8 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/04/22	



Sample Data

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

Project Name: North Thistle 3 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/4/2022 3:38:10PM

CS 20 2'

E209186-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene		107 %	70-130	10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	10/02/22	10/03/22	
Surrogate: Toluene-d8		75.2 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241001
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
Surrogate: Bromofluorobenzene		107 %	70-130	10/02/22	10/03/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	10/02/22	10/03/22	
Surrogate: Toluene-d8		75.2 %	70-130	10/02/22	10/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
Surrogate: n-Nonane		104 %	50-200	10/03/22	10/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241019
Chloride	ND	20.0	1	10/03/22	10/04/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:38:10PM
PO Box 247	Project Number:	01058-0007	
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 (2241001-BLK1)

Prepared: 10/02/22 Analyzed: 10/03/22

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	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2241001-BS1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	2.09	0.0250	2.50		83.6	70-130			
Ethylbenzene	2.06	0.0250	2.50		82.2	70-130			
Toluene	2.05	0.0250	2.50		82.1	70-130			
o-Xylene	1.97	0.0250	2.50		78.9	70-130			
p,m-Xylene	3.87	0.0500	5.00		77.4	70-130			
Total Xylenes	5.85	0.0250	7.50		77.9	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2241001-BSD1)

Prepared: 10/02/22 Analyzed: 10/03/22

Benzene	2.01	0.0250	2.50		80.4	70-130	3.90	23	
Ethylbenzene	2.04	0.0250	2.50		81.5	70-130	0.880	27	
Toluene	2.02	0.0250	2.50		81.0	70-130	1.35	24	
o-Xylene	1.93	0.0250	2.50		77.0	70-130	2.41	27	
p,m-Xylene	3.79	0.0500	5.00		75.9	70-130	2.03	27	
Total Xylenes	5.72	0.0250	7.50		76.3	70-130	2.16	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported: 10/4/2022 3:38:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2241001-BLK1)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2241001-BS2)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS Dup (2241001-BSD2)

Prepared: 10/02/22 Analyzed: 10/03/22

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130	0.207	20	
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:38:10PM

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 (2241010-BLK1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	56.5		50.0		113	50-200			

LCS (2241010-BS1)

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: <i>n</i> -Nonane	52.9		50.0		106	50-200			

Matrix Spike (2241010-MS1)

Source: E209186-17

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	50-200			

Matrix Spike Dup (2241010-MSD1)

Source: E209186-17

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	0.381	20	
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	North Thistle 3 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/4/2022 3:38:10PM

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 (2241019-BLK1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	ND	20.0							
LCS (2241019-BS1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2241019-BSD1)					Prepared: 10/03/22 Analyzed: 10/03/22				
Chloride	251	20.0	250		101	90-110	0.344	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:	North Thistle 3 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/04/22 15:38

- 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 9

Client: Pima Environmental Services Project: North Thisle 3 CTB1 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: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 1-175					Lab Use Only Lab WO# E209186 Job Number Q058-0007					TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
										Analysis and Method					RCRA		State NM CO UT AZ TX			
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	Remarks						
8:00	9/30/22	S	1	CS 1 2'	1							X								
8:05				CS 2 2'	2															
8:10				CS 3 2'	3															
8:15				CS 4 2'	4															
8:20				CS 5 2'	5															
8:25				CS 6 2'	6															
8:30				CS 7 2'	7															
8:35				CS 8 2'	8															
8:40				CS 9 2'	9															
8:45				CS 10 2'	10															
Additional Instructions: 20829671																				
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) <i>[Signature]</i> Date: 9/30/22 Time: 3:00 Relinquished by: (Signature) <i>[Signature]</i> Date: 9/30/22 Time: 4:15 Relinquished by: (Signature) _____ Date: _____ Time: _____																				
Received by: (Signature) <i>[Signature]</i> Date: 9-30-22 Time: 3:00 Received by: (Signature) <i>[Signature]</i> Date: 10/3/22 Time: 9:00 Received by: (Signature) _____ Date: _____ Time: _____																				
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.																				
Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> 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 9

Client: <u>Pima Environmental Services</u>					Bill To		Lab Use Only				TAT				EPA Program									
Project: <u>North ThisHe 3 CTB1</u>					Attention: <u>Devon Energy</u>		Lab WO# <u>E269186</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: <u>Tom Bynum</u>					Address:		Analysis and Method								RCRA									
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip										State									
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		BGDOC TX		Remarks	
Phone: <u>580-748-1613</u>					Email:																			
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>1-175</u>																			
Report due by:																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
8:50	9/30/22	S	1	CS 11 2'	11																			
8:55				CS 12 2'	12																			
9:00				CS 13 2'	13																			
9:05				CS 14 2'	14																			
9:10				CS 15 2'	15																			
9:15				CS 16 2'	16																			
9:20				CS 17 2'	17																			
9:25				CS 18 2'	18																			
9:30				CS 19 2'	19																			
9:35				CS 20 2'	20																			
Additional Instructions: <u>20829671</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>		9/30/22		3:00		<u>[Signature]</u>		9-30-22		3:15		Received on ice: <u>(Y)</u> / N												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3												
<u>[Signature]</u>		9-30-22		4:15p		<u>[Signature]</u>		10/3/22		9:00														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

Envirotech Analytical Laboratory

Printed: 10/3/2022 10:05:26AM

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:	10/03/22 09:00	Work Order ID:	E209186
Phone:	(575) 631-6977	Date Logged In:	09/30/22 17:09	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/03/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project North Thistle 3 CTB 1 has been separated into multiple reports due to sample volume. Workorders are as follows: E209186, E209187, E209188, E209189.

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.

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 157023

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157023
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/3/2023