March 2,

2023

nRM2031146817

2022 Fourth (4th) Quarter Groundwater Monitoring Report Northeast Drinkard Unit (NEDU) #829, #830, #922, #928, and #929 Lea County, New Mexico

Prepared for:

Apache

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Prepared by:

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Mark J. Larson

Certified Professional Geologist #10490



Robert Nelson Sr. Geologist

LAI Project No: 19-0112-38

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1.0 EXECUTIVE SUMMARY

Larson & Associates, Inc. (LAI) has prepared this report on behalf of the Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I in Hobbs and Santa Fe, New Mexico. This report presents 2022 fourth (4th) quarter (October - December) groundwater monitoring results for the Northeast Drinkard Unit (NEDU) #829, 830, 922, 928, and 929 (Sites). The Sites are located in Section 22, Township 21 South, Range 37 East, in Lea County, New Mexico. The approximate geodetic position is North 32.46294° and West -103.15153°.

The following activities occurred on December 14, 2022:

- Gauged depth to groundwater and collected groundwater samples from monitoring wells MW-1 through MW-4.
- Analyzed groundwater samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), chloride, and total dissolved solids (TDS).

The following observations are documented in this report:

- Depth to groundwater ranged from 40.56 feet bgs in monitoring well MW-4 to 54.39 feet below ground surface (bgs) in monitoring well MW-1.
- The groundwater elevation ranged between 3,371.38 and 3,355.11 feet above mean sea level (MSL) in monitoring wells MW-4 (upgradient) and MW-3 (downgradient), respectively.
- Groundwater flow is from northwest to southeast at a gradient of about 0.013 feet per foot (ft/ft).
- BTEX compounds were below the analytical method reporting limit (RL) and New Mexico Water Quality Control Commission (NMWQCC) human health standards in groundwater samples from monitoring wells MW-1 through MW-4.
- Chloride concentrations in the groundwater samples were below the NMWQCC domestic water quality standard of 250 milligrams per liter (mg/L) except from monitoring well MW-1 (893 mg/L).
- TDS concentrations in the groundwater samples were below the NMWQCC domestic water quality standard of 1,000 mg/L except monitoring well MW-1 (2,520 mg/L).
- The groundwater elevations, groundwater flow direction and laboratory analysis were consistent with the previous monitoring events.

Apache proposes the following:

- Apache will continue groundwater monitoring on a quarterly (4 times per year) schedule.
- Gauge all monitoring wells for depth to groundwater and collect groundwater samples from monitoring wells with sufficient groundwater during each quarterly event.
- Analyze samples for BTEX, chloride and TDS.
- Report the laboratory results to NMOCD in quarterly reports, unless significant changes in analyte concentrations are detected, at which time Apache will immediately report the results to NMOCD.
- Apache will provide notice to the NMOCD in Hobbs and Santa Fe, New Mexico, at least 7 working days prior to each monitoring event.

2.0 INTRODUCTON

Larson & Associates, Inc. (LAI) has prepared this report on behalf of Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I in Hobbs and Santa Fe, New Mexico. This report presents 2022 quarterly groundwater monitoring results for the fourth (4th) quarter on December 14, 2022. During the quarterly event, groundwater samples were collected from four (4) monitor wells (MW-1 through MW-4) at the Northeast Drinkard Unit (NEDU) #829, 830, 922, 928, and 929 (Sites) located in Lea County, New Mexico. The legal description is Section 22, Township 21 South, Range 37 East. The geodetic coordinates are as follows:

Site	North (°)	West (°)
NEDU #829	32.462947	-103.151539
NEDU #830	32.463967	-103.155761
NEDU #922	32.457803	-103.151181
NEDU #928	32.458019	-103.155831
NEDU #929	32.458022	-103.151450

The NMOCD was notified prior to the groundwater monitoring event. Figure 1 presents a topographic map. Figure 2 presents an aerial map. Figure 3 presents a site map. Appendix A presents the NMOCD communications.

2.1 Background

On April 6, 2001, the landowner reported to the NMOCD that an Apache contractor was closing drilling pits at the Sites by disposing pit fluid in open trenches adjacent to the drilling pits. Apache was notified and submitted the initial C-141 on April 23, 2001. NMOCD assigned the trenches remediation permit 1RP-313.

On April 23, 2001, Apache submitted a work plan for remediating the trenches. NMOCD approved the work plan on May 8, 2001. The work plan stated that the trenches at wells #829, #830 and #929 would be excavated to approximately 19 feet bgs and to approximately 13 feet bgs at #928. There is no evidence that the trench was excavated at #922. An Apache contractor collected bottom and composite samples from the excavations and found chloride above the remediation closure limits in all excavations. Total petroleum hydrocarbons (TPH) were reported above the NMOCD closure limits in the excavation at #928. No documentation is available in NMOCD files to confirm the remediation.

On October 31, 2019, Apache submitted an administrative summary and path forward for remediating and closing the trenches. The plan requested approval from the NMOCD for a variance to excavate soil to a depth of approximately four (4) feet bgs at each trench and install a 20-mil polyethylene liner in the bottom of the excavations. Additionally, Apache committed to installing monitoring wells hydraulically down gradient (east - southeast) approximately 50 feet from the trench. On May 19, 2021, the NMOCD

approved the administrative summary and path forward for remediation but stated that "preapproval for monitor well locations on map before installation" was required. On July 14, 2021, NMOCD approved the monitor well locations. Appendix A presents the NMOCD communications.

3.0 GROUNDWATER INVESTIGATION

3.1 Monitoring Well Installation

On July 19 and 20, 2021, Scarborough Drilling, Inc. (SDI), under the supervision of LAI, installed monitoring wells MW-1, MW-2, MW-3, and MW-4 at locations specified in the New Mexico Office of the State Engineer (OSE) permits utilizing an air rotary drill rig. The wells were completed in 5-inch diameter borings advanced to 65 to 76 feet BGS. Monitoring wells MW-1, MW-2, MW-3, and MW-4 were completed to depths of approximately 74.08, 74.86, 65.35 and 76.01 feet bgs, respectively. The monitoring wells are completed with 2-inch schedule 40 threaded PVC casing and 20 feet of 0.010-inch factory slotted screen installed above and below the groundwater level observed during drilling. Graded silica sand is positioned around the well screens to a depth about 2 feet above the screen. Sodium bentonite chips extend around the PVC riser and above the sand to about 1-foot bgs. The wells are secured with locking steel sleeves anchored in concrete.

On July 27-30, 2021, the wells were developed by pumping with an electric submersible pump to remove sediment disturbed drilling and well installation. Approximately 40 gallons of water were removed from each well and disposed in 55-gallon drums.

West Company, a State of New Mexico licensed Professional Land Surveyor (PLS Number 23263) surveyed the monitoring wells for location and elevation including top of casing and natural ground surface. Figure 3 presents Site drawing showing the monitoring well locations. Table 1 presents the monitoring well completion and gauging summary. Appendix B presents the monitoring well boring logs and well completion records.

4.0 GROUNDWATER MONITORING

4.1 Depth to Groundwater and Groundwater Potentiometric Surface Elevation

On December 14, 2022, LAI personnel gauged monitoring wells MW-1 through MW-4 for depth to groundwater. Groundwater was gauged in monitoring wells MW-1, MW-2, MW-3, and MW-4 at 54.39, 52.08, 51.61, and 40.56 feet bgs, respectively. Groundwater potentiometric surface elevation was recorded at 3,371.38 above MSL at MW-4 (upgradient) to 3,355.11 feet above MSL at MW-3 (downgradient). The groundwater flow direction is from northwest to southeast at a gradient of about 0.013 ft/ft. Figure 4 presents the groundwater potentiometric surface map for December 14, 2022.

4.2 Groundwater Samples and Analysis

On December 14, 2022, LAI personnel collected groundwater samples from monitoring wells MW-1 through MW-4. The groundwater Samples were collected using the low stress or low flow method following EPA protocol (EQASOP-GW4, Revision 4, September 19, 2017) where an environmental pump is submerged near the middle of the water column and the well is pumped at a low flow rate until environmental parameters stabilize.

Samples were collected from the discharge of dedicated disposable Tygon® tubing. The tubing was discarded after each use and the pump was thoroughly cleaned with a solution of potable water and laboratory grade detergent (Alconox®) and rinsed with distilled water. The samples were transferred to labeled laboratory containers and delivered under chain of custody control and preservation to Euro-Xenco Laboratories (Xenco), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory, in Midland, Texas. A duplicate sample was collected from MW-2 for laboratory quality assurance and quality control (QA/QC).

Xenco analyzed the samples for benzene, toluene, ethylbenzene, xylene (BTEX) according to EPA SW-846 Method SW-8260D, total dissolved solids (TDS) by Method SM 2540C, and chloride by EPA Method 300. Table 2 presents the laboratory analytical summary. Appendix C presents the laboratory report.

4.2.1 Organic Analysis

BTEX concentrations were below the laboratory analytical RL and NMWQCC human health standards in all groundwater samples collected from monitoring wells, MW-1 through MW-4. The results are consistent with results from previous groundwater monitoring events.

4.2.2 Inorganic Analysis

Chloride concentrations were reported below the NMWQCC domestic water quality standard of 250 mg/L in monitoring wells MW-2 (167 mg/L), MW-3 (97.9 mg/L), and MW-4 (134 mg/L). The chloride concentration in the groundwater sample collected from monitoring well MW-1 (893 mg/L) was above the NMWQCC domestic water quality standard. The chloride concentration in the QA/QC sample (Dup-1) collected from monitoring well MW-2 was 171 mg/L and within 2.4 percent of the original chloride value for MW-2 (167 mg/L). No data exceptions were noted in the laboratory report case narratives. Figure 5 presents the chloride concentration map for December 14, 2022.

TDS concentrations in groundwater samples collected from monitoring wells MW-1 (2,520 mg/L) was above the NMWQCC domestic water quality standard of 1,000 mg/L. TDS concentrations were below the NMWQCC domestic water quality standard in groundwater samples collected from MW-2 (983 mg/L), MW-3 (381 mg/L), and MW-4 (327 mg/L). The TDS concentration in the QA/QC sample (Dup-1) was 1,100 mg/L and within 10.6 percent of the original TDS value for MW-2 (983 mg/L). No data exceptions were noted in the laboratory case narratives. Figure 6 presents the TDS concentration map for December 14, 2022.

5.0 CONCLUSIONS

The following observations are documented in this report:

- Groundwater flow direction is from northwest to southeast at a gradient of about 0.013 ft/ft.
- BTEX concentrations were below the analytical method RL and NMWQCC human health standards in all groundwater samples collected from monitoring wells MW-1 through MW-4.
- The chloride concentration in the groundwater sample collected from monitoring well MW-1 (893 mg/L) was above the NMWQCC domestic water quality standard of 250 mg/L.
- Chloride concentrations in groundwater samples from monitoring wells MW-2 (167 mg/L), MW-3 (97.9 mg/L), and MW-4 (134 mg/L) were below the NMWQCC domestic water quality standard of 250 mg/L.
- TDS concentrations in the groundwater samples collected from wells MW-1 (2,520 mg/L) and was above the NMWQCC domestic water quality standard of 1,000 mg/L.
- TDS concentrations were below the NMWQCC domestic water quality standard of 1,000 mg/L in groundwater samples collected from monitoring wells MW-2 (983 mg/L), MW-3 (645 mg/L), and MW-4 (797 mg/L).

6.0 RECOMMENDATIONS

Apache proposes the following:

- Continue groundwater monitoring on a quarterly (4 times per year).
- Gauge each well (MW-1 through MW-4) for depth to groundwater and collect groundwater samples from monitoring wells with sufficient groundwater during each quarterly event.
- Report the laboratory results to NMOCD in quarterly reports, unless significant changes in analyte concentrations are detected, at which time Apache will immediately report the results to NMOCD.
- Apache will provide notice to the NMOCD in Hobbs and Santa Fe, New Mexico, at least 7 working days prior to each monitoring event.

Tables

Table 1 1RP-313 Monitoring Well Completion and Gauging Summary Apache Corportaion, NEDU Drill Pits Lea County, New Mexico

			Well	Information							Groundwa	ter Data	
Well No.	Date Drilled	Well Depth (Feet TOC)	Drilled Depth (Feet BGS)	Well Diameter (Inches)	Surface Elevation (Feet AMSL)	Screen Interval (Feet BGS)	Casing Stickup (Feet)	TOC Elevation (Feet AMSL)	Date Gauged	Depth to Water (Feet TOC)	Depth to Water (Feet BGS)	Water Column Height (Feet)	Groundwater Elevation (Feet AMSL)
MW-1	07/19/2021	74.08	71.08	2	3417.34	70.85-50.85	3.00	3,417.34	07/29/2021	57.40	54.40	16.68	3,359.94
									11/08/2021	57.40	54.40	16.68	3,359.94
									03/02/2022	57.36	54.36	16.72	3,359.98
									05/24/2022	57.32	54.32	16.76	3,360.02
									08/17/2022	57.40	54.40	16.68	3,359.94
									12/14/2022	57.39	54.39	16.69	3,359.95
MW-2	07/19/2021	74.86	71.86	2	3408.43	71.68-51.68	3.00	3,411.66	07/29/2021	54.81	51.81	20.05	3,356.85
									11/08/2021	54.85	51.85	20.01	3,356.81
									03/02/2022	54.91	51.91	19.95	3,356.75
									05/24/2022	54.91	51.91	19.95	3,356.75
									08/17/2022	55.04	52.04	19.82	3,356.62
									12/14/2022	55.08	52.08	19.78	3,356.58
MW-3	07/20/2021	65.35	62.75	2	3406.01	65.15-45.15	2.60	3,409.32	07/29/2021	53.55	50.95	11.80	3,355.77
								ŕ	11/08/2021	53.67	51.07	9.68	3,355.65
									03/02/2022	53.83	51.23	11.52	3,355.49
									05/24/2022	53.88	51.28	11.47	3,355.44
									08/17/2022	54.08	51.48	11.27	3,355.24
									12/14/2022	54.21	51.61	11.14	3,355.11
MW-4	07/20/2021	76.01	72.93	2	3412.51	75.81-55.81	3.08	3,415.02	07/30/2021	44.38	41.30	31.63	3,370.64
									11/08/2021	43.44	40.36	32.57	3,371.58
									03/02/2022	43.44	40.36	32.57	3,371.58
									05/24/2022	43.50	40.42	32.51	3,371.52
									08/17/2022	42.63	39.55	33.38	3,372.39
									12/14/2022	43.64	40.56	32.37	3,371.38

Notes: monitoring wells installed by Environ-Drill, Albuquerque, New Mexico with 2 inch schedule 40 PVC casing and screen

Table 1 1RP-313

Monitoring Well Completion and Gauging Summary Apache Corportaion, NEDU Drill Pits Lea County, New Mexico

			Well	Information							Groundwa	iter Data	
Well No.	Date Drilled	Well Depth (Feet TOC)	Drilled Depth (Feet BGS)	Well Diameter (Inches)	Surface Elevation (Feet AMSL)	Screen Interval (Feet BGS)	Casing Stickup (Feet)	TOC Elevation (Feet AMSL)	Date Gauged	Depth to Water (Feet TOC)	Depth to Water (Feet BGS)	Water Column Height (Feet)	Groundwater Elevation (Feet AMSL)

bgs: below ground surface

TOC: top of casing

AMSL: denotes elevation in feet above mean sea level

Table 2
Groundwater Sample Analytical Data Summary
Apache Corporation, NEDU #830, 922, 928, and 929
Lea County, New Mexico

Sample	Collection	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
	Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMWQCC Standard	d:	*0.005	* 1	*0.7	*0.62	**250	**1,000
MW-1	07/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	446	2,510
(NEDU #830)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	1,270	2,490
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	1,250	2,500
	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	912	2,500
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	1,070	2,670
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	893	2,520
MW-2	07/29/2021	0.0391	<0.00200	<0.00219	<0.00400	268	1,170
(NEDU #922)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	279	1,100
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	253	1,110
	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	200	1,100
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	239	1,080
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	167	983
MW-3	07/29/2021	0.00407	<0.00200	<0.00200	<0.00400	128	663
(NEDU #929)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	122	644
(NEDO 11323)	11/00/2021	10.00200	\0.00200	10.00200	10.00 +00	122	044
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	114	664
	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	114	647
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	111	645
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	97.9	381
MW-4	07/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	559	1,030
(NEDU #928)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	203	832
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	182	836
	05/24/2022	<0.00200	<0.00200	<0.00200	< 0.00400	171	827
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	165	797
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	134	327
	. ,						
Dup-1 (MW-2)	07/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	244	1,160
Dup-2 (MW-4)	07/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	235	1,030
Dup-1 (MW-2)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	270	1,100
Dup-1 (MW-2)	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	268	1,090
Dup-1 (MW-2)	05/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	189	1,090
Dup-1 (MW-2)	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	246	1,100
Dup-1 (MW-2)	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	171	1,100
200 ± (10100 2)	12/11/2022	10.00200	10.00200	10.00200	.0.00-00	-/-	1,100
				l			

Notes:

analysis performed by Xenco-Eurofins Laboratories, Midland, Texas by EPA SW-846 Method 8021B (BTEX), Method 300 (chloride), Method 2540C

All values reported in milligrams per liter (mg/L); equivalent to parts per million (ppm)

- < concentration is less than analytical method reporting limit (RL).
- * NMWQCC human health standard
- ** NMWQCC domestic water quality standard

bgs - below ground surface

Figures

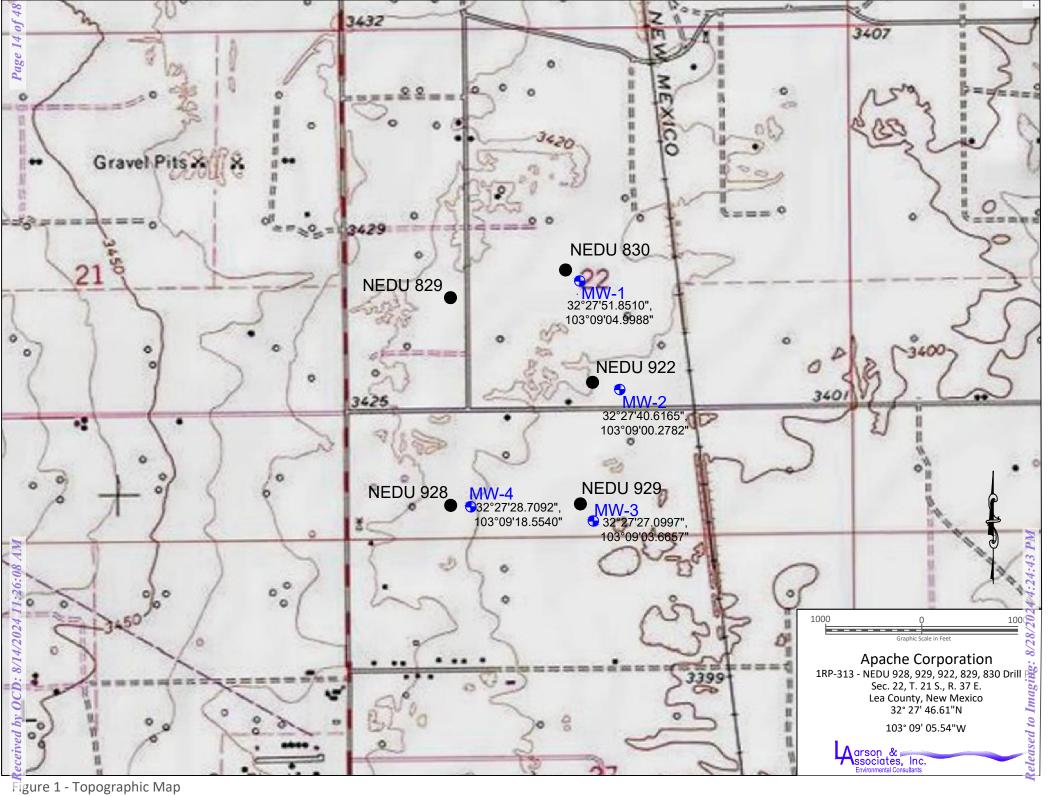
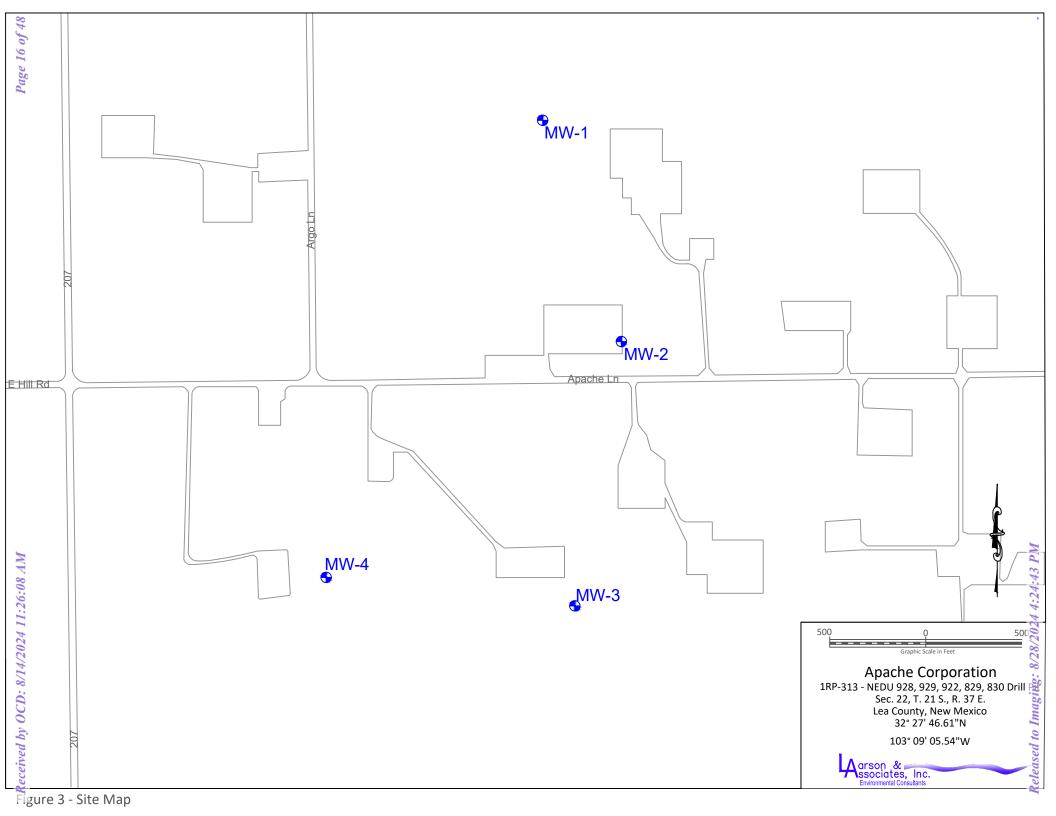


Figure 1 - Topographic Map



Figure 2 - Aerial Map



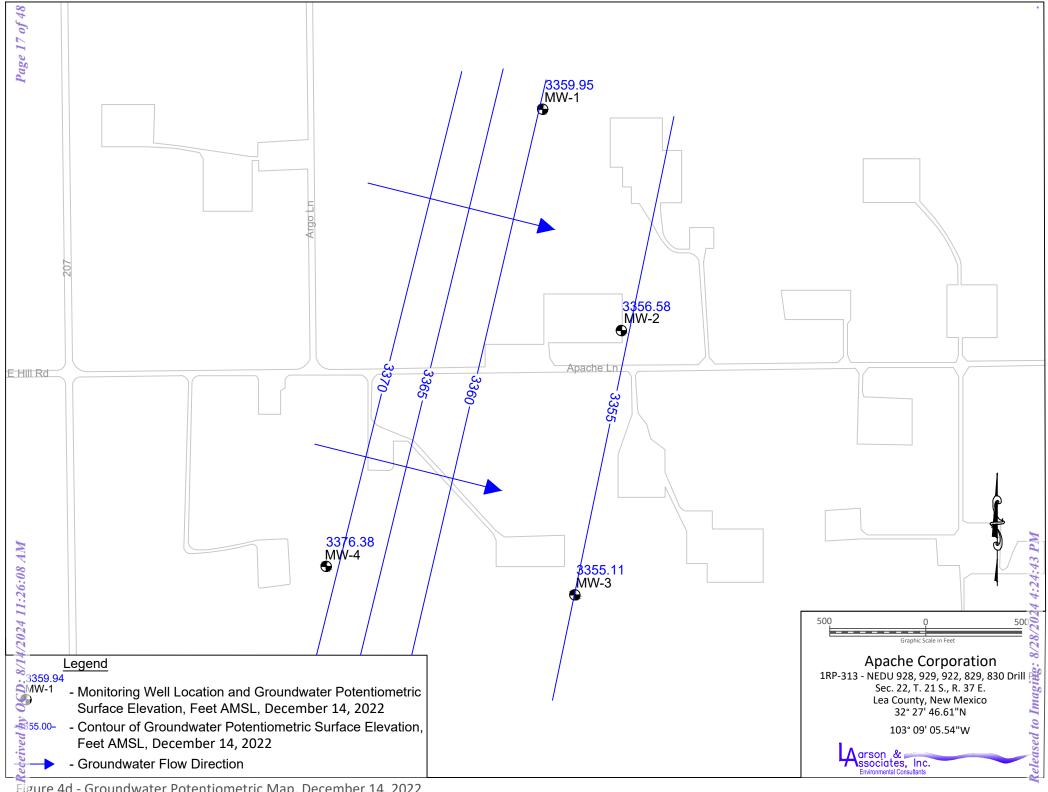


Figure 4d - Groundwater Potentiometric Map, December 14, 2022

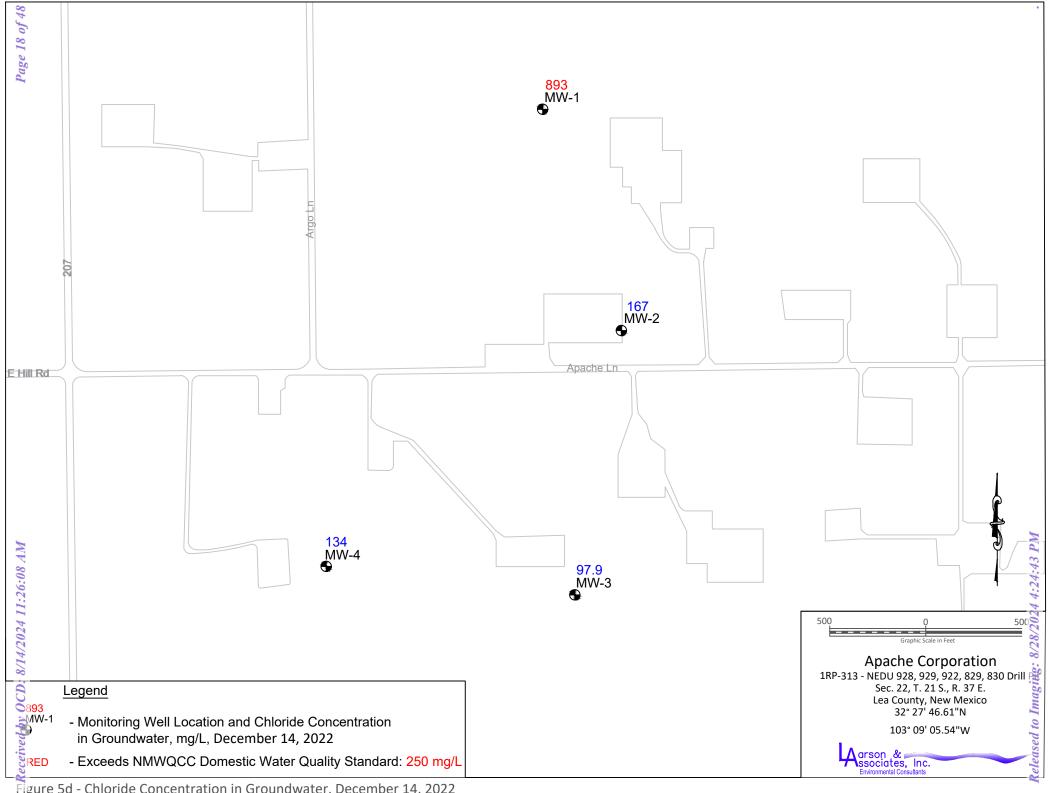


Figure 5d - Chloride Concentration in Groundwater, December 14, 2022

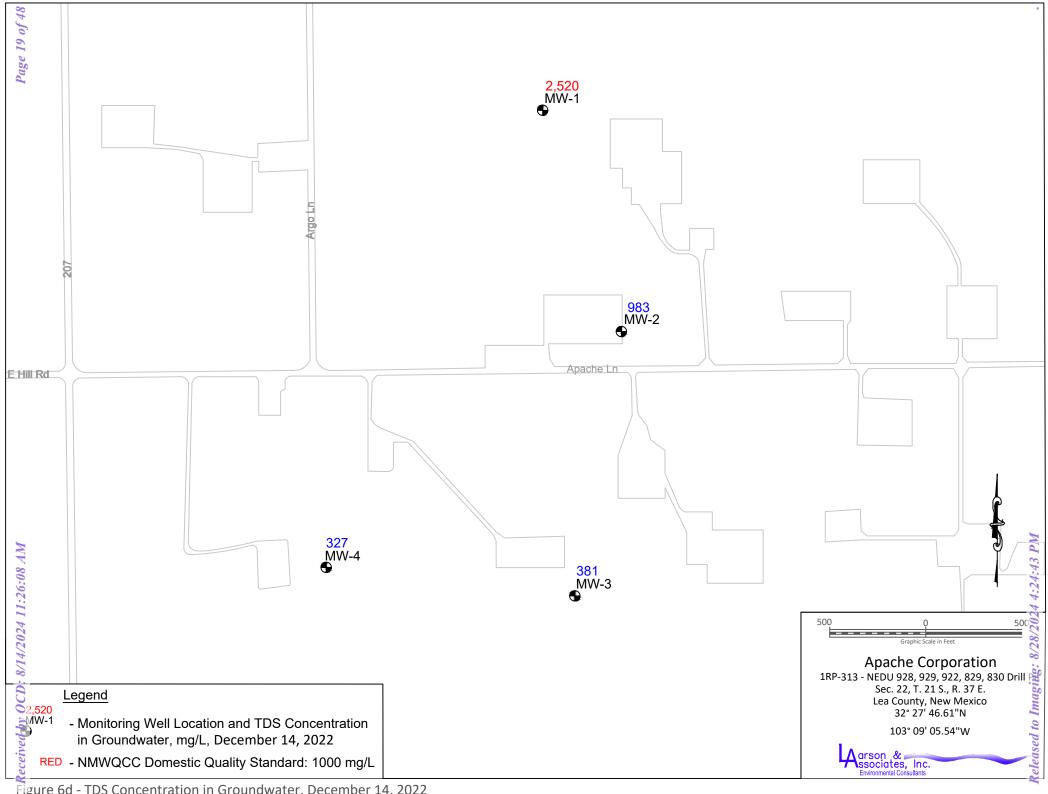


Figure 6d - TDS Concentration in Groundwater, December 14, 2022

Appendix A

NMOCD Communications

Robert Nelson

From:

Billings, Bradford, EMNRD < Bradford. Billings@state.nm.us>

Sent:

Wednesday, August 10, 2022 9:12 AM

To:

Robert Nelson; Bratcher, Mike, EMNRD

Cc:

'Larry.Baker@apachecorp.com'; Bole, Barrett; Mark Larson; Daniel St. Germain

Subject:

RE: [EXTERNAL] Apache Corp. NEDU 829, 830, 922, 928, &929 (1RP-0313/nRM2031146817) Groundwater Sampling Notice

Hello,

Thank you for the notification. Please keep this email and include with allied report(s).

Bradford Billings EMNRD/OCD

From: Robert Nelson < rnelson@laenvironmental.com>

Sent: Tuesday, August 9, 2022 3:30 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> **Cc:** 'Larry.Baker@apachecorp.com' <Larry.Baker@apachecorp.com>; Bole, Barrett <Barrett.Bole@apachecorp.com>;

Mark Larson <Mark@laenvironmental.com>; Daniel St. Germain <dstgermain@laenvironmental.com>

Subject: [EXTERNAL] Apache Corp. NEDU 829, 830, 922, 928, &929 (1RP-0313/nRM2031146817) Groundwater Sampling

Notice

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

Hello Mr. Billings and Mr. Bratcher,

This message is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Apache Corporation to provide notice that personnel from Larson & Associates, Inc. (LAI) will be at the Northeast Drinkard Unit (NEDU) Wells 829, 830, 922, 928, & 929 (1RP-0313/nRM2031146817), on August 17, 2022, at approximately 13:00 mst for the purpose of collecting groundwater samples from monitoring wells per the OCD approved plans. Please feel free to contact Bruce Baker with Apache at (432) 215-2284 or Larry.Baker@apache.com, Mark Larson at (432) 687-0901 or mark@laenvironmental.com, or me if you have any questions.

Thank you,

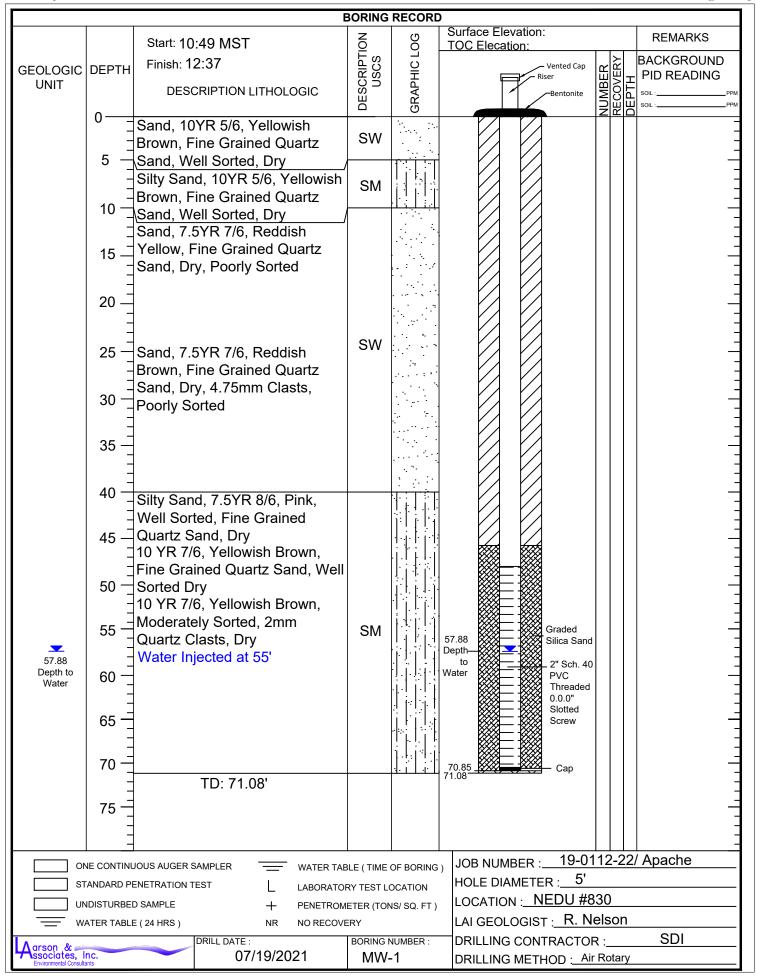
Robert Nelson Sr. Geologist Office – 432-687-0901 Cell – 432-664-4804

rnelson@laenvironmental.com



Appendix B

Monitoring Well Completion Records



			BORING	RECORD		
		Start: 13:17 MST	N C	LOG	Surface Elevation: TOC Elecation:	REMARKS
CEO! 00!0	DEDTU	Finish: 14:40	DESCRIPTION USCS	C LC		BACKGROUND
GEOLOGIC UNIT	DEPIH		CRI	GRAPHIC	□ Riser □ □ □	E PID READING
51111		DESCRIPTION LITHOLOGIC)ES	, RA	Bentonite NUMBI	SOIL :PPM
	0-	Sand, 7.5YR 4/6, Strong Brown,	1	·. ·.	Z	
	=	Fine Grained Quartz Sand, Well	1			
	5 –	Sorted, Dry	SW			
						=
	10 =					
	10	Silty Sand, 7.5YR 7/4, Pink,				_
		Fine Grained Quartz Sand,				
	15 —	Moderately Sorted, Dry, Quartz Clasts 2mm	SM			_
		7.5YR 6/6, Reddish Yellow, Fine	9			
	20 —	Grained Quartz Sand,				
		Moderately Sorted, Dry, Fine to				=
	25	Medium Quartz Clasts Sand, 7.5YR 7/6, Reddish	_			_
	25	Yellow, Fine Grained Quartz				-
		Sand, Dry				
	30 🖳	7.5YR 7/6, Reddish Yellow, Fine	SW			
		Grained Quartz Sand, Quartz				
	35 —	Clasts				_
]					
	40 —					
		Silty Sand, 7.5YR 5/6, Strong				
		Brown, Fine Grained Quartz Sand, Well Sorted, Dry				
	45 —	Sand, Well Softed, Dry				
]					
	50 —	7.5YR 5/6, Strong Brown, Fine				-
		Grained Quartz Sand, Well				
	55 📑	Sorted, Dry, Quartz Clasts Medium to Coarse Grained	SM		Graded	_
57.88	=	Water Injected at 55'		$ \cdot \cdot $	57.88 Silica Sand	
Depth to	60 -	Trater injected at 66			to 2" Sch. 40	_
Water				취급성	Threaded	
	65 -				0.0.0" Slotted	_
	00				Screw	
	70 -					
	70 —				71.68 Cap	
	=	TD: 71.86'				
	75 —					_
]					
		IOUS AUGER SAMPLED	DI E (****	OF PORTIE	JOB NUMBER : 19-0112-2	2/ Apache
		THE TO A THOU THE T	•	OF BORING	HOLE DIAMETER : 5'	
	IDISTURBE			NS/ SQ. FT)	LOCATION: NEDU #922	
	ATER TABLE	,	•	10,0W.FI)	LAI GEOLOGIST : R. Nelsor	1
↑arson & 🚐		DRILL DATE :		NUMBER :	DRILLING CONTRACTOR :	SDI
Ssociates, I	nc.	07/19/2021	MW	-2	DRILLING METHOD : Air Rotar	у

			E	BORING	RECORD			
		Start: 13:45		N O	90	PID READING	SAMPLE	REMARKS
05010010	DEPTH	Finish: 14:50		DESCRIPTION USCS	GRAPHIC LOG	PPM X	R RG	BACKGROUND
GEOLOGIC UNIT	DEPIN		101 0010	SCRIPT	표	2 4 6 8 10 12 14 16	MBEF READ SOVE	PID READING
		DESCRIPTION LITH	HOLOGIC	DES] 3RA		NUMBER PID READING RECOVERY DEPTH	SOIL :PPM SOIL :PPM
	0 —	2.5YR 4/6, Red, Fine	Grained		. ::	 		=
	_	Quartz Rich Sand, V	ery Well					
	5 —	Sorted, Well Rounde	ed,					13:50
	_	Unconsolidated Increase in Depth Lit	hology				1 5	
	_	Remains Same Colo						40.54
	10 —	to 2.5YR 7/3 to 7/4 L		SM			2 10	13:54
	_	Reddish Brown at 13)']
	15							13:58
	_						3 15	<u> </u>
	_							
	20						4 20	14:03
	_	5YR 7/4, Pink, Fine t	o Medium					"
		Grained Quartz Rich						14:10
	25 —	Moderately Sorted, F	•	SM			5 25	
	_	Sub Rounded		Oivi				
	30 —							14:13
	_						6 30	
	=							44.00
	35 —						7 35	14:20
	_	7.5\/D.0/0.D.I.\/.II						
	40 —	7.5YR 9/2, Pale Yello Very Fine to Fine Gra						14:22
	_	Quartz Grained Sand					8 40	
	_	Sorted, Well Rounde	-		***			
	45	Rounded			(1. v. A.)		9 45	14:25
5 " '	_	¹ 7.5YR 6/8, Reddish			14.]
Depth to Water:	50 —	Very Fine to Fine Gra Quartz Sand, Well So		SM				14:30
53.71	_	Rounded	orteu, vven				10 50	
	_	. touridod						14442
	55 —						11 55	14:42
	_							
	60 -						40 60	14:44
	_						12	ή ქ
	_ 							14:50
	65 —	TD: 65.35'			<u> </u>		13 65	'
	<u> </u>	10.00.30						‡
						100 11111		10112 22
		JOUS AUGER SAMPLER	WATER TAE	BLE (TIME	OF BORING)	JOB NUMBER : HOLE DIAMETER		-0112-22
		ENETRATION TEST	_ LABORATO			LOCATION : N	• • • • • • • • • • • • • • • • • • • •	
	IDISTURBEI		PENETROM	-	NS/ SQ. FT)	LAI GEOLOGIST		on
		(24 HRS) N	IR NO RECOVE		NUMBER :	DRILLING CONTE		SDI
Aarson & ssociates, In	nc.	7/20/20	021		V- 3	DRILLING CONTR		
Environmental Consulta	intS					3 WIE	,	

					BORING	RECORD												
		Start: 9:	35		NO	96		PIE	RE	ΑC	OINC	3	S	AMP	LE		REMARKS	
GEOLOGIC	DEDTH	Finish: 1;	2:10		DESCRIPTION USCS	SRAPHIC LOG	P	PM	X				~	ING	Κ	В	BACKGROUND	
UNIT			PIDTION LITUOL	OCIC	SCR		2	4 6	8 10	12	14	16 18	NUMBER	READING	RECOVERY	֓֞֞֞֞֞֞֞֞֞֓֓֞֟֞֟֓֓֓֓֞֟֞֟֓֓֓֓֞֟֟֓֓֓֓֟֟֟֝֟֝֓֓֟֟֝	PID READING	
		DESC	CRIPTION LITHOL	JOGIC	DES	3RA							NO.	PID R		П Л	SOIL :F	PM
	0	Sand, 2.	5YR 4/6, Red,	Fine					+					Δ.		_		=
		4	Quart Sand, V	•	CM												9:38	\exists
	5 —	-	Vell Rounded,		SM								1		H	5	7.30	-
	_		lidated, Quartz	Rich														=
	10 -	Sand											2		Щ	9	9:40	╛
	_												-			0		7
			5YR 7/4, Light													9	9:40	-
	15		ery Fine to Fir Quartz Sand,	ie									3		1	5		Ξ
			ely Sorted, Sub	Angular). 40	3
	20 —		ounded, with [•									4		2	20	9:42	\exists
	_		e in Grain Size	•														=
	25 —	1	Well Sorted,	Quartz									5				9:45	Ⅎ
		Rich San		. Madium									3			25		#
			3, Pink, Fine to Quartz Sand, S		SM											1	0:30	7
	30 —		to Sub Angula										6		3	30		7
	_		ely Sorted, Qua	-												1	0:35	1
Depth to	35 —	Sand											7		3	35	0.33	Ⅎ
Water:	=		4, Light Brown															=
41.05	40 -		Quartz Sand, \										8		Щ	1	0:38	4
=	_		Rounded to Sul I, with Depth In										ľ					7
	15 _		lidation and	iorcasc													1:14	_
	45 =		ition, Quartz R	ich Sand									9		4	15		=
	_	1	4, Light Reddis															4
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	=	1	Grained Quartz I to Angular, Ve	,														4
	55 _		ated with Red	- iy ∣														\exists
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	60 -	Cuttings,	Quartz Rich S	Sand														_
		Introduc	ed Water with	Drilling	SM													3
	65 -			•	SIVI													႕
	-																	7
	70 -																	∄
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	75 -																	₫
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10	NE CONTINU	JOUS AUGER S	SAMPLER —	WATER TAE	BLE (TIME	OF BORING	J	OB N	IUM	BE	R:		Αра			9-	0112-22	_
S1	TANDARD P	ENETRATION T	EST	LABORATO				OLE	DIA	ME					<u>5"</u>			-
L UN	NDISTURBE	D SAMPLE	+	PENETROM	ETER (TO	NS/ SQ. FT)	- 1	OCA						928				-
— w	ATER TABL	E (24 HRS)	NR	NO RECOVE	ERY			AI GI								on		-
Agrson & ssociates,	lno.		DRILL DATE :	1		NUMBER :	- 1	RILL						_			SDI	-
SSOCIATES, Environmental Consult	ITIC. tants		7/20/202	I	IVIV	v - 4	D	RILL	ING	М	ETH	HOD	:	Air R	otar	<u>y</u>		_

Appendix C

Laboratory Report

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701

Generated 12/28/2022 10:02:45 AM

JOB DESCRIPTION

NEDU Pits SDG NUMBER 19-0112-22

JOB NUMBER

880-22819-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 12/28/2022 10:02:45 AM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

14

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 20

12/28/2022

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Laboratory Job ID: 880-22819-1

SDG: 19-0112-22

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Definitions/Glossary

Job ID: 880-22819-1 Client: Larson & Associates, Inc. Project/Site: NEDU Pits SDG: 19-0112-22

Qualifiers

GC VOA Qualifier

Qualifier Description LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

Released to Imaging: 8/28/2024 4:24:43 PM

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Job ID: 880-22819-1 SDG: 19-0112-22

Job ID: 880-22819-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22819-1

Receipt

The samples were received on 12/16/2022 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-42588 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-42346 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

SDG: 19-0112-22

Job ID: 880-22819-1

Client Sample ID: MW-1

Lab Sample ID: 880-22819-1

Matrix: Water

Date Collected: 12/14/22 11:35 Date Received: 12/16/22 09:34

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			12/24/22 17:41	1
Toluene	<0.00200	U *1	0.00200	mg/L			12/24/22 17:41	1
Ethylbenzene	<0.00200	U *1	0.00200	mg/L			12/24/22 17:41	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/L			12/24/22 17:41	1
o-Xylene	<0.00200	U *1	0.00200	mg/L			12/24/22 17:41	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			12/24/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		-		12/24/22 17:41	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/24/22 17:41	1
Method: TAL SOP Total BTFX - To	otal BTFX Cald	culation						
Method: TAL SOP Total BTEX - To Analyte		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	Unit mg/L	<u>D</u> -	Prepared	Analyzed 12/26/22 16:25	Dil Fac
Analyte	<0.00400	Qualifier U			<u>D</u> -	Prepared		
Analyte Total BTEX	Result <0.00400	Qualifier U			D -	Prepared Prepared		
Analyte Total BTEX Method: MCAWW 300.0 - Anions,	Result <0.00400	Qualifier U ography Qualifier	0.00400	mg/L		·	12/26/22 16:25	1
Analyte Total BTEX Method: MCAWW 300.0 - Anions, Analyte	Result <0.00400 Ion Chromato Result	Qualifier U ography Qualifier	0.00400 RL	mg/L Unit		·	12/26/22 16:25 Analyzed	1 Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions, Analyte Chloride	Result <0.00400 Ion Chromato Result 893	Qualifier U ography Qualifier	0.00400 RL	mg/L Unit		·	12/26/22 16:25 Analyzed	1 Dil Fac

Client Sample ID: MW-2 Lab Sample ID: 880-22819-2 Date Collected: 12/14/22 11:01 Matrix: Water

Date Received: 12/16/22 09:34

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			12/24/22 18:02	1
Toluene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:02	1
Ethylbenzene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:02	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/L			12/24/22 18:02	1
o-Xylene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:02	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			12/24/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		-		12/24/22 18:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/24/22 18:02	1
- Mathada TAL COR Tatal RTEV - T	- t-LDTEV O-L	latian						
Method: TAL SOP Total BTEX - To	otal BIEX Cald	ulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 0.00400	Unit mg/L	<u>D</u> _	Prepared	Analyzed 12/26/22 16:25	Dil Fac
Analyte	Result <0.00400	Qualifier U			<u>D</u> -	Prepared	- 	Dil Fac
Analyte Total BTEX	Result <0.00400	Qualifier U			<u>D</u> _	Prepared Prepared	- 	Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions	Result <0.00400	Qualifier U	0.00400	mg/L		•	12/26/22 16:25	1
Analyte Total BTEX Method: MCAWW 300.0 - Anions Analyte	Result <0.00400 , Ion Chromato Result	Qualifier U	0.00400 RL	mg/L Unit		•	12/26/22 16:25 Analyzed	1 Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions, Analyte Chloride	Result <0.00400 , Ion Chromato Result 167	Qualifier U	0.00400 RL	mg/L Unit		•	12/26/22 16:25 Analyzed	1 Dil Fac

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Client Sample Results

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Client Sample ID: MW-3 Date Collected: 12/14/22 09:40

Date Received: 12/16/22 09:34

Lab Sample ID: 880-22819-3

Job ID: 880-22819-1

SDG: 19-0112-22

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			12/24/22 18:22	1
Toluene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:22	1
Ethylbenzene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:22	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/L			12/24/22 18:22	1
o-Xylene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:22	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			12/24/22 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				12/24/22 18:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/24/22 18:22	1
-								
The state of the s	otal BTEX Cald	culation						
Method: TAL SOP Total BTEX - To Analyte		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	Unit mg/L	<u>D</u> .	Prepared	Analyzed 12/26/22 16:25	Dil Fac
Analyte Total BTEX	<0.00400	Qualifier U			<u> </u>	Prepared	. <u> </u>	Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions,	Result <0.00400	Qualifier U			D .	Prepared Prepared	. <u> </u>	Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions, Analyte	Result <0.00400	Qualifier U	0.00400	mg/L			12/26/22 16:25	1
Analyte Total BTEX Method: MCAWW 300.0 - Anions, Analyte Chloride	Result <0.00400 Ion Chromato Result	Qualifier U	0.00400	mg/L Unit			12/26/22 16:25 Analyzed	1 Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anions,	Result <0.00400 , Ion Chromato Result 97.9	Qualifier U	0.00400	mg/L Unit			12/26/22 16:25 Analyzed	1 Dil Fac

Client Sample ID: MW-4 Lab Sample ID: 880-22819-4 Date Collected: 12/14/22 10:15

Date Received: 12/16/22 09:34

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			12/24/22 18:43	1
Toluene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:43 12/24/22 18:43 12/24/22 18:43	1 1 1
Ethylbenzene	<0.00200		0.00200	mg/L				
m,p-Xylenes	<0.00400		0.00400	mg/L				
o-Xylene	<0.00200	U *1	0.00200	mg/L			12/24/22 18:43	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			12/24/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		-		12/24/22 18:43	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/24/22 18:43	1
Method: TAL SOP Total BTEX -	· Total BTEX Cal	culation						
Method: TAL SOP Total BTEX - Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 0.00400	Unit mg/L	<u>D</u> .	Prepared	Analyzed 12/26/22 16:25	Dil Fac
Analyte	<0.00400	Qualifier U			<u>D</u> -	Prepared		
Analyte Total BTEX	Result <0.00400	Qualifier U			D -	Prepared Prepared		
Analyte Total BTEX Method: MCAWW 300.0 - Anior	Result <0.00400	Qualifier U	0.00400	mg/L		·	12/26/22 16:25	1
Analyte Total BTEX Method: MCAWW 300.0 - Anior Analyte	Result <0.00400 ns, Ion Chromato Result	Qualifier U	0.00400 RL	mg/L Unit		·	12/26/22 16:25 Analyzed	1 Dil Fac
Analyte Total BTEX Method: MCAWW 300.0 - Anior Analyte Chloride	Result <0.00400 ns, Ion Chromato Result 134	Qualifier U	0.00400 RL	mg/L Unit		·	12/26/22 16:25 Analyzed	1 Dil Fac

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Client Sample Results

Client: Larson & Associates, Inc.

Client Sample ID: DUP-1

Date Collected: 12/14/22 00:00

Date Received: 12/16/22 09:34

Project/Site: NEDU Pits

Job ID: 880-22819-1 SDG: 19-0112-22

Lab Sample ID: 880-22819-5

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			12/24/22 19:03	1
Toluene	<0.00200	U *1	0.00200	mg/L			12/24/22 19:03	1
Ethylbenzene	<0.00200	U *1	0.00200	mg/L			12/24/22 19:03	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/L			12/24/22 19:03	1
o-Xylene	<0.00200	U *1	0.00200	mg/L			12/24/22 19:03	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			12/24/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		-		12/24/22 19:03	1
4.4.0%	105		70 - 130				12/24/22 19:03	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/24/22 19.03	,
- '		culation	70 - 130				12/24/22 19.03	,
1,4-Diffuorobenzene (Surr) Method: TAL SOP Total BTEX - 1 Analyte	Гotal BTEX Cald	culation Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - 1	Гotal BTEX Cald	Qualifier		Unit mg/L	<u>D</u> -	Prepared		Dil Fac
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX	Fotal BTEX Cald Result <	Qualifier U	RL		D -	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX Method: MCAWW 300.0 - Anions	Fotal BTEX Calc Result <0.00400 s, Ion Chromato	Qualifier U	RL		D .	Prepared Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - 1 Analyte	Fotal BTEX Calc Result <0.00400 s, Ion Chromato	Qualifier U	RL	mg/L		·	Analyzed 12/26/22 16:25	1
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX Method: MCAWW 300.0 - Anions Analyte	Fotal BTEX Calc Result <0.00400 s, Ion Chromato Result	Qualifier U		mg/L Unit		·	Analyzed 12/26/22 16:25 Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX Method: MCAWW 300.0 - Anions Analyte Chloride	Fotal BTEX Calc Result <0.00400 s, Ion Chromato Result 171	Qualifier U		mg/L Unit		·	Analyzed 12/26/22 16:25 Analyzed	1 Dil Fac

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-22819-1	MW-1	99	106	
880-22819-2	MW-2	98	106	
880-22819-3	MW-3	92	103	
880-22819-4	MW-4	112	96	
880-22819-5	DUP-1	105	105	
LCS 880-42588/2	Lab Control Sample	104	114	
LCSD 880-42588/3	Lab Control Sample Dup	110	112	
MB 880-42588/7	Method Blank	90	98	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

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QC Sample Results

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-22819-1 SDG: 19-0112-22

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42588/7

Analysis Batch: 42588

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/L 12/24/22 12:34 Toluene <0.00200 U 0.00200 mg/L 12/24/22 12:34 Ethylbenzene <0.00200 U 0.00200 12/24/22 12:34 mg/L m,p-Xylenes <0.00400 U 0.00400 mg/L 12/24/22 12:34 o-Xylene <0.00200 U 0.00200 12/24/22 12:34 mg/L Xylenes, Total <0.00400 U 0.00400 12/24/22 12:34 mg/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130		12/24/22 12:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130		12/24/22 12:34	1

Lab Sample ID: LCS 880-42588/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 42588

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1073 mg/L 107 70 - 130 Toluene 0.100 0.08696 mg/L 87 70 - 130 Ethylbenzene 0.100 0.08294 mg/L 83 70 - 130 70 - 130 84 m,p-Xylenes 0.200 0.1682 mg/L 0.100 o-Xylene 0.08875 mg/L 89 70 - 130

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: LCSD 880-42588/3

Matrix: Water

Analysis Batch: 42588

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1190 mg/L 119 70 - 130 10 20 Toluene 0.100 0.1099 *1 mg/L 110 70 - 130 23 20 Ethylbenzene 0.100 0.1121 *1 mg/L 112 70 - 130 30 20 m,p-Xylenes 0.200 0.2411 *1 mg/L 121 70 - 130 36 20 o-Xylene 0.100 0.1224 *1 mg/L 122 70 - 130 32 20

LCSD LCSD Qualifier %Recovery Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 112 70 - 130

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42346/3 **Matrix: Water**

Lab Sample ID: LCS 880-42346/4

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 42346

MB MB

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <0.500 U 0.500 mg/L 12/27/22 15:23

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 42346

Matrix: Water

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 25.0 23.83 mg/L 95 90 - 110

Lab Sample ID: LCSD 880-42346/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water**

Prep Type: Total/NA

Client Sample ID: MW-1

12/20/22 17:32

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 42346

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 25.0 23.04 mg/L 92 90 - 110

Lab Sample ID: 880-22819-1 MS Client Sample ID: MW-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 42346

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits Chloride 893 500 1624 F1 146 90 - 110 mg/L

Lab Sample ID: 880-22819-1 MSD

Matrix: Water

Analysis Batch: 42346

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	893	F1	500	1659	F1	mg/L		153	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-42350/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Total Dissolved Solids

Analysis Batch: 42350

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed <25.0 25.0

Lab Sample ID: LCS 880-42350/2 Client Sample ID: Lab Control Sample

mg/L

Matrix: Water

Analysis Batch: 42350

Spike LCS LCS %Rec Analyte babbA Result Qualifier Unit D %Rec Limits Total Dissolved Solids 1000 983.0 mg/L 98 80 - 120

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22819-1 Project/Site: NEDU Pits

SDG: 19-0112-22

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-42350/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 42350 Spike LCSD LCSD %Rec RPD

Added Result Qualifier Analyte Unit D %Rec Limits RPD Limit Total Dissolved Solids 1000 983.0 mg/L 98 80 - 120 0

Lab Sample ID: 880-22819-1 DU Client Sample ID: MW-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 42350

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier RPD Limit Unit D **Total Dissolved Solids** 2520 2636 mg/L 4 10

QC Association Summary

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

GC VOA

Analysis Batch: 42588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22819-1	MW-1	Total/NA	Water	8021B	
880-22819-2	MW-2	Total/NA	Water	8021B	
880-22819-3	MW-3	Total/NA	Water	8021B	
880-22819-4	MW-4	Total/NA	Water	8021B	
880-22819-5	DUP-1	Total/NA	Water	8021B	
MB 880-42588/7	Method Blank	Total/NA	Water	8021B	
LCS 880-42588/2	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-42588/3	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 42608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22819-1	MW-1	Total/NA	Water	Total BTEX	-
880-22819-2	MW-2	Total/NA	Water	Total BTEX	
880-22819-3	MW-3	Total/NA	Water	Total BTEX	
880-22819-4	MW-4	Total/NA	Water	Total BTEX	
880-22819-5	DUP-1	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 42346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22819-1	MW-1	Total/NA	Water	300.0	
880-22819-2	MW-2	Total/NA	Water	300.0	
880-22819-3	MW-3	Total/NA	Water	300.0	
880-22819-4	MW-4	Total/NA	Water	300.0	
880-22819-5	DUP-1	Total/NA	Water	300.0	
MB 880-42346/3	Method Blank	Total/NA	Water	300.0	
LCS 880-42346/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-42346/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-22819-1 MS	MW-1	Total/NA	Water	300.0	
880-22819-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 42350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22819-1	MW-1	Total/NA	Water	SM 2540C	_
880-22819-2	MW-2	Total/NA	Water	SM 2540C	
880-22819-3	MW-3	Total/NA	Water	SM 2540C	
880-22819-4	MW-4	Total/NA	Water	SM 2540C	
880-22819-5	DUP-1	Total/NA	Water	SM 2540C	
MB 880-42350/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-42350/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-42350/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-22819-1 DU	MW-1	Total/NA	Water	SM 2540C	

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

Client Sample ID: MW-1

Date Received: 12/16/22 09:34

Total/NA

Analysis

SM 2540C

Lab Sample ID: 880-22819-1 Date Collected: 12/14/22 11:35

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/24/22 17:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42608	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	300.0		20	50 mL	50 mL	42346	12/27/22 15:49	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	42350	12/20/22 17:32	SMC	EET MID

Client Sample ID: MW-2 Lab Sample ID: 880-22819-2 Date Collected: 12/14/22 11:01 **Matrix: Water**

Date Received: 12/16/22 09:34

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8021B 5 mL 5 mL 42588 12/24/22 18:02 AJ EET MID Analysis 1 Total/NA Analysis Total BTEX 42608 12/26/22 16:25 ΑJ EET MID 300.0 10 Total/NA Analysis 50 mL 50 mL 42346 12/27/22 16:16 СН **EET MID**

Client Sample ID: MW-3 Lab Sample ID: 880-22819-3

Date Collected: 12/14/22 09:40 **Matrix: Water**

100 mL

200 mL

42350

12/20/22 17:32

SMC

EET MID

Date Received: 12/16/22 09:34

Dil Final Batch Batch Initial Batch Prepared Method Prep Type Type Run Factor Amount Amount Number or Analyzed Analyst Lab 8021B 42588 12/24/22 18:22 EET MID Total/NA Analysis ΑJ 5 mL 5 mL Total/NA Total BTEX 42608 12/26/22 16:25 Analysis AJ **EET MID** Total/NA Analysis 300.0 5 42346 12/27/22 16:24 CH 50 mL 50 mL EET MID Total/NA Analysis SM 2540C 100 mL 200 mL 42350 12/20/22 17:32 SMC EET MID

Client Sample ID: MW-4 Lab Sample ID: 880-22819-4

Date Collected: 12/14/22 10:15 **Matrix: Water** Date Received: 12/16/22 09:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/24/22 18:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42608	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	300.0		5	50 mL	50 mL	42346	12/27/22 16:33	СН	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	42350	12/20/22 17:32	SMC	EET MID

Client Sample ID: DUP-1 Lab Sample ID: 880-22819-5

Date Collected: 12/14/22 00:00 **Matrix: Water** Date Received: 12/16/22 09:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/24/22 19:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42608	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	300.0		10	50 mL	50 mL	42346	12/27/22 16:42	СН	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	42350	12/20/22 17:32	SMC	EET MID

Eurofins Midland

Released to Imaging: 8/28/2024 4:24:43 PM

Lab Chronicle

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Job ID: 880-22819-1 SDG: 19-0112-22

Accreditation/Certification Summary

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
exas		LAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of	' '	t the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for w	
0 ,	' '	t the laboratory is not certifi Matrix	ied by the governing authority. This list ma Analyte	ay include analytes for w	

Method Summary

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-22819-1

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S	D	G:	19	-01 [′]	12-	-22	

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET MID
5030B	Purge and Trap	SW846	EET MID

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Job ID: 880-22819-1

SDG: 19-0112-22

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22819-1	MW-1	Water	12/14/22 11:35	12/16/22 09:34
880-22819-2	MW-2	Water	12/14/22 11:01	12/16/22 09:34
880-22819-3	MW-3	Water	12/14/22 09:40	12/16/22 09:34
880-22819-4	MW-4	Water	12/14/22 10:15	12/16/22 09:34
880-22819-5	DUP-1	Water	12/14/22 00:00	12/16/22 09:34

12/14/2022 CHAIN-OF-CUSTOD

DATE

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Login Sample Receipt Checklist

Job Number: 880-22819-1 Client: Larson & Associates, Inc. SDG Number: 19-0112-22

Login Number: 22819 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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

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 373812

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	373812
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	Apache - NEDU 829, 830, 922, 928, and 929, 2022 Fourth Quarter Groundwater Monitoring Report, App ID:373812, submitted and received by OCD on 08/14/2024	8/28/2024