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# 2021 ANNUAL GROUNDWATER MONITORING REPORT

Artesia Tank Farm Section 10, Township 18 South, Range 27 East Artesia, Eddy County, New Mexico NMOCD Reference # 2RP-6

Review of the 2021 Annual Groundwater Monitoring Report: Content is satisfactory 1. Continue to monitor groundwater wells and sample as prescribed by NMOCD. 2 Continue removal of LNAPL when appropriate conditions are present and document these activities. 3. Submit the 2022 and 2023 Annual Groundwater Reports, unless already uploaded. GW Monitoring Report must be submitted no later than April 1, 2024.

**Original Preparation Date:** March 24, 2022

Prepared for:

**CENTURION PIPELINE LP** 516 Veterans Airpark Lane Bldg. B Midland TX 79705

Prepared By: **APEX Companies, LLC.** 505 N. Big Spring Street, Suite 301A Midland, TX 79701

Apex Project No. CEN21-001



# 2021 ANNUAL GROUNDWATER MONITORING REPORT

Artesia Tank Farm Section 10, Township 18 South, Range 27 East Artesia, Eddy County, New Mexico NMOCD Reference # 2RP-6

Jalu Frykt

John Faught Geologist

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Aaron Sides Project Manager







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Artesia Tank Farm	Page ii

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# **1.0 – INTRODUCTION**

# 1.1 - Site Background

In March 1993, a release of crude oil was discovered at the Artesia Tank Farm located approximately 12 miles southeast of Artesia, New Mexico, referred to hereinafter as the "Site". In August 1993, an initial assessment, which included the installation of 23 soil borings, concluded that impacts from light non-aqueous phase liquid (LNAPL) extended approximately 1,700 feet along Scoggin Draw. An interceptor trench and an associated groundwater separation/air-stripper remediation system was installed in November 1994 to control and remediate the LNAPL and dissolved-phase hydrocarbon plume associated with the release. A total of fourteen monitoring wells (MW-1 through MW-14) were eventually installed along Scoggin Draw to evaluate/monitor the extent of the groundwater impact. Quarterly reporting was performed throughout the operation of the remediation system, which was shut down in early 1997 and dismantled in the fall of 1998.

After New Mexico Oil Conservation Division (NMOCD) approval, all 14 monitoring wells were plugged and abandoned. Monitoring wells MW-4, MW-6, MW-7, MW-12, and MW-13 were plugged and abandoned on June 19, 2003. On August 18, 2005, monitoring wells MW-5, MW-8 and MW-14 were plugged and abandoned. On November 12 and 13, 2013 monitoring wells MW-1, MW-2, MW-2A, MW-3, MW-3A, MW-3B, MW-9, MW-10 and MW-11 were also plugged and abandoned.

On June 29, 2007, the NMOCD was notified that effective July 1, 2007, the Operator of Record for the Site, and the associated water development easement (WM-72) transferred from BP Pipelines (North America) Inc. to Centurion Pipeline LP (Centurion).

A status report was submitted on April 4, 2012, entitled "Status Update Report". The laboratory analytical results in 2014 indicate that historical chemicals of concern (COC) concentrations in groundwater underlying areas outside the pump station compound were below the applicable New Mexico Water Quality Commission human health standard. The historical data provided in reports prepared by RT Hicks Consulting, Delta Environmental Consultants and the Antea Group shows general trends associated with biodegradation of the residual petroleum hydrocarbons and that the dissolved-phase contaminant plume is non-mobile and decreasing.

Additional remediation at the Site has been deferred until the Site is more accessible for removal of LNAPL. The NMOCD approved the completion of two (2) sentinel wells placed down gradient of potential contamination. The monitoring wells (MW-1 and MW-2) were installed in October 2016 by Apex. The results of the investigation and sampling activities are included in the "2016 Environmental Site Investigation and Annual Groundwater Report" prepared by Apex and dated December 2016. Annual groundwater samples are collected from the two monitoring wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX). The results are submitted in an annual groundwater monitoring report for submittal to the NMOCD.

# 1.2 - Site Description

The Artesia Tank Farm is located 12 miles southeast of Artesia in Section 10, Township 18 South, and Range 27 East in Eddy County, New Mexico. The geodetic coordinates of the Site are latitude



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32.761507° N, longitude 104.270481° W. The Site is surrounded by primarily undeveloped rangeland periodically interrupted by oil and gas production.

A Topographic Map is included in Figure 1, a Site Vicinity Map, composed from an aerial photograph, is included in Figure 2, and a Site Details Map is included in Figure 3.

### **<u>1.3 - Project Objective</u>**

The project objective of the groundwater monitoring at the Site is to monitor the groundwater downgradient of the Artesia Tank Farm. Apex collected groundwater analytical samples from monitoring wells MW-1 and MW-2. The samples were analyzed for Benzene, Toluene, Ethylbenzene and Xylene (BTEX) utilizing Environmental Protection Agency (EPA) Method 8021B.

#### 2.0 - SITE CHARACTERIZATION

#### 2.1 – Site Geology and Hydrogeology

The lithology encountered during previous investigation activities at the Site consisted primarily of evaporates with intermittent layers of fine-grained sand. The surface contained intermittent caliche nodules. The United States Agricultural Department soil survey indicates that the Site is in the Artesia Group which consists of fine grain sandstones, evaporates, and dolostone.

#### 2.2 - Groundwater Flow

Previous reports prepared by Antea Group indicate the groundwater flow direction (gradient) at the Site is generally south south-west. The shallow groundwater near the Site generally flows toward and along the Scoggin Draw, located to the east of the Site. A 2010 groundwater Gradient Map, prepared using information from the Antea Group, is included as Figure 4.

#### **3.0 - REGULATORY GUIDELINES**

#### <u>3.1 – Site Ranking</u>

The Site is under the jurisdiction of the ENMRD OCD. Initial Site activities were performed in accordance with the ENMRD OCD Guidelines for Remediation of Leaks, Spills and Releases, in addition to the OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.29 Remediation Plan. This guidance establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex utilized the general site characteristics and information available from the New Mexico Office of the State Engineer to determine the appropriate OCD "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

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# **Ranking Criteria**

Rankir	Ranking Score		
Depth to Groundwater	<50 feet 50 to 99 feet >100 feet	20 10 0	20
Wellhead Protection Area • <1,000 feet from a water source,	Yes	20	0
or <200 feet from private domestic water source.	No 0		v
	<200 feet	20	
Distance to Surface Water Body	200 to 1,000 feet	10	10
	>1,000 feet	0	
Rankir	Ranking Score		
Total Rai	30		

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum OCD Total Ranking Score of "30". This ranking is based on the following:

The depth to the initial groundwater-bearing zone is less than 50 feet below grade surface (bgs) as observed in on-site groundwater monitoring wells, resulting in a ranking of "20" for depth to groundwater.

No water sources or wellheads were identified within 1,000 feet of the Site, resulting in a ranking of "0" for proximity to a wellhead protection area.

The Site is located approximately 260 feet to the west of the dry cut bank of Scoggin Draw, resulting in a ranking of "10" for distance to surface water.

The cleanup goals for groundwater at the Site were derived from the Water Quality Control Commission (WQCC) *Groundwater Quality NMAC 20.6.2 Standards* of:

- 0.005 milligrams per liter (mg/L) for benzene,
- 1.0 mg/L for toluene,
- 0.7 mg/L for ethylbenzene, and
- 0.62 mg/L for xylenes.



# 4.0 - GROUNDWATER SAMPLING PROGRAM

# 4.1 - Groundwater Sampling Program

Apex's groundwater sampling program consisted of collecting one (1) groundwater sample from each monitoring well annually. Before sample collection, Apex gauged depth to fluids in each monitoring well utilizing an electronic oil/water interface meter, capable of detecting phase separated hydrocarbons (PSH).

Each monitoring well was purged utilizing low-flow sampling techniques. The groundwater samples were collected from each monitoring well once produced groundwater was consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature and conductivity.

Groundwater samples were collected and placed in laboratory prepared glassware, placed on ice in a cooler, and secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Xenco Laboratories in Midland, Texas for standard turn-around times.

# **5.0 - LABORATORY ANALYTICAL METHODS**

### 5.1 - Laboratory Analytical Methods

Groundwater samples were analyzed for BTEX utilizing EPA Method SW-846 8021B. Laboratory results for groundwater samples are summarized in Table 1. Laboratory results, including the executed chain of custody forms are provided in Appendix A.

### 6.0 - DATA EVALUATION

Apex compared the reported BTEX concentrations or laboratory method detection limits (MDL) associated with the groundwater samples collected from the Site to the applicable New Mexico Water Quality Control Commission Groundwater Quality Standards (WQCC).

### 6.1 - Annual Groundwater Analytical Monitoring

Groundwater samples were collected from monitoring wells MW-1 and MW-2 on September 24, 2021.

The laboratory analytical results for monitoring well MW-1 for benzene, toluene, ethylbenzene, and total xylene were 0.00756 mg/L J, 0.00145 mg/L J, <0.00657 mg/L, and 0.000678 mg/L J, respectively, which are below the applicable NMAC 19.15.29 Remediation Plan and below the applicable WQCC regulations. The laboratory analytical results for monitoring well MW-2 for benzene, toluene, ethylbenzene, and total xylene were <0.00408 mg/L, <0.00367 mg/L, <0.00657 mg/L, and <0.00642 mg/L, respectively, which are below the applicable NMAC 19.15.29 Remediation Plan and below the applicable applicable NMAC 19.15.29 Remediation Plan and below the applicable mg/L, respectively.



# 7.0 - FINDINGS AND CONCLUSIONS

Apex has the following findings and conclusions based on analytical results of the annual groundwater sampling event.

• The September 2021 BTEX concentrations in groundwater were not detected above the applicable WQCC regulatory limits, in samples collected from MW-1 and MW-2.

### **8.0 - RECOMMENDATIONS**

Based on the results of the groundwater monitoring activities, Apex has the following recommendations:

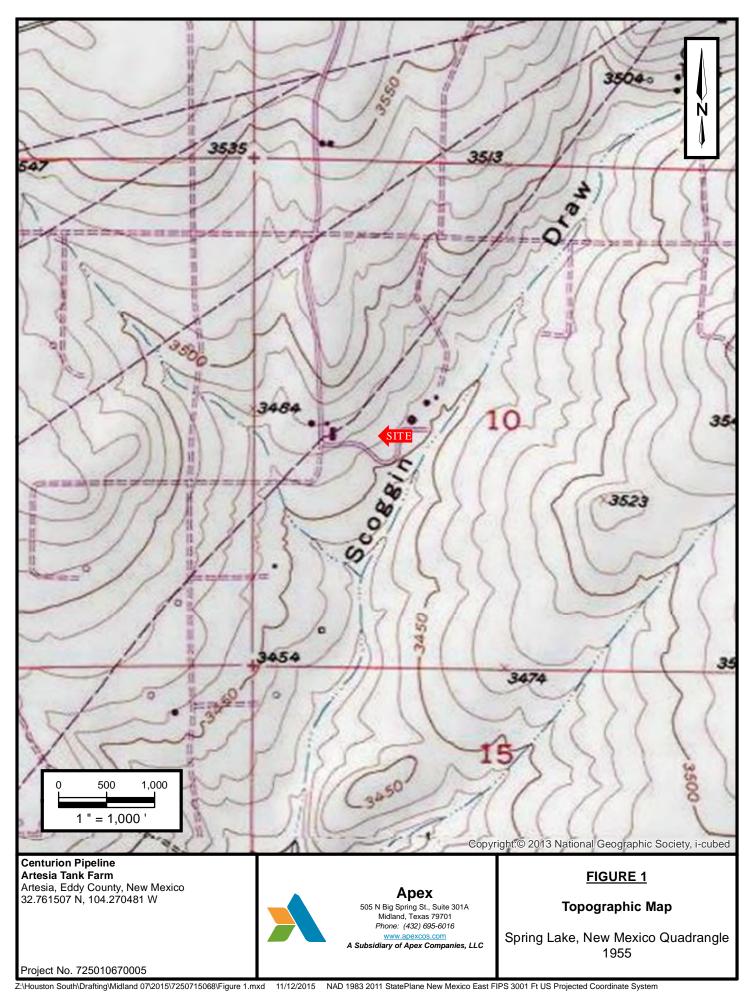
- Report the results of the investigation to the NMOCD; and
- Continue the groundwater monitoring program on an annual basis to evaluate potential impacts from the Artesia Tank Farm.



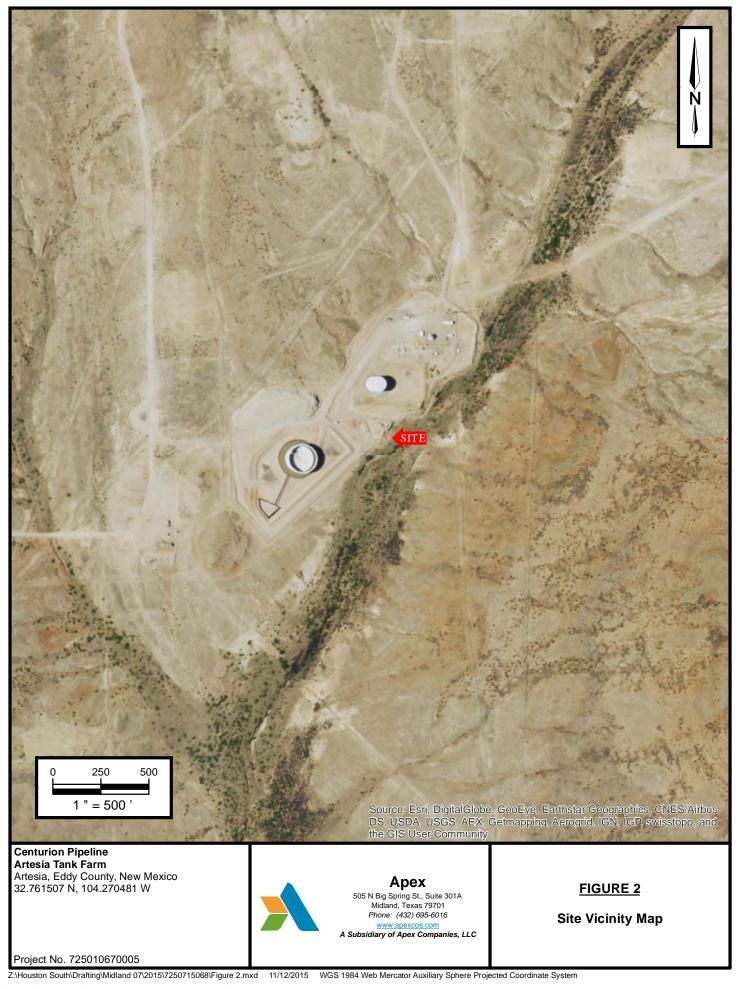


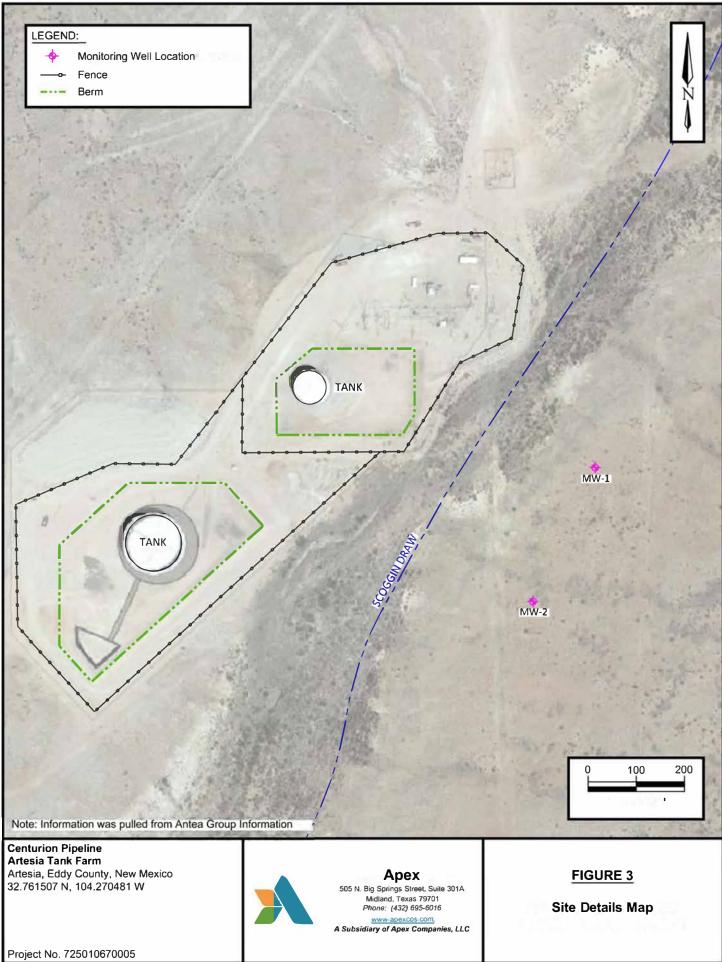
Figures

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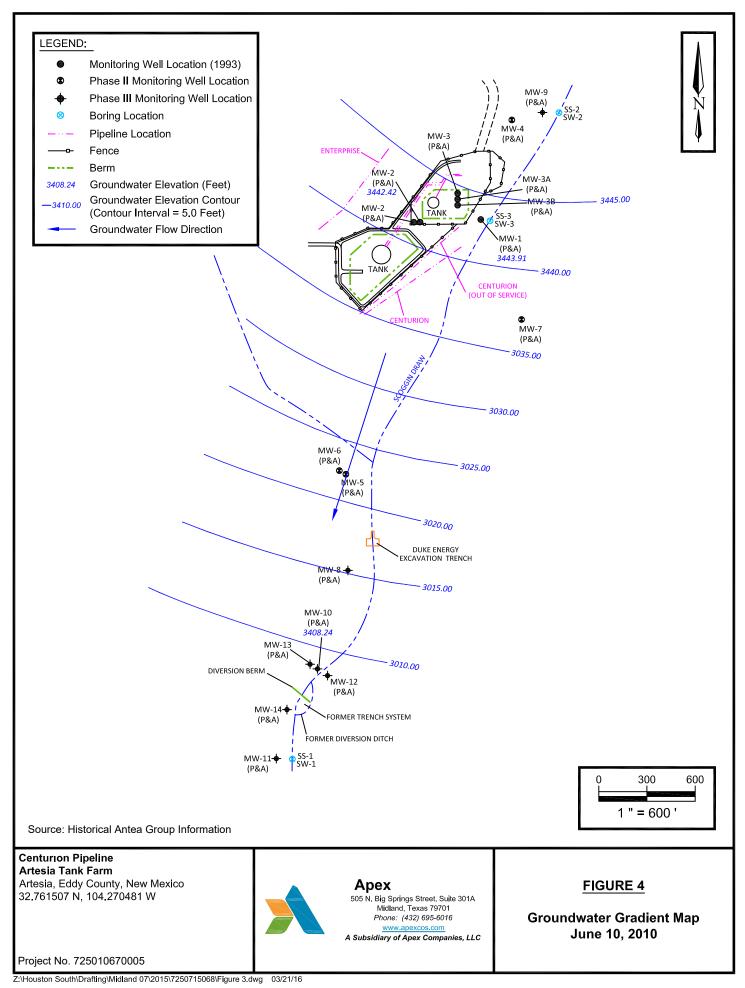


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Z:\Houston South\Drafting\Midland 07\2015\7250715068\Figure 3.dwg 12/02/15



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Tables



TABLE 1   GROUNDWATER ANALYTICAL RESULTS   Artesia Tank Farm, Eddy County, New Mexico							
Sample I.D.	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)		
	ter Quality Control water Quality Standards	0.005	1.000	0.700	0.620		
MW-1	11/30/16	0.00060	<0.00050	<0.00050	<0.00050		
MW-1	07/12/17	<0.00060	<0.00050	<0.00050	<0.00050		
MW-1	07/10/18	<0.000408	<0.000367	<0.000657	<0.00063		
MW-1	09/27/19	<0.000408	<0.000367	<0.000657	<0.00063		
MW-1	08/13/20	0.00047 J	* 0.00171 J	<0.000657	<0.00063		
MW-1	09/24/21	0.000756 J	0.00145 J	<0.000657	0.000678 J		
MW-2	11/30/16	0.0023 J	<0.00050	<0.00050	0.0035 J		
MW-2	07/12/17	<0.00060	<0.00050	<0.00050	<0.00050		
MW-2	07/10/18	<0.000408	<0.000367	<0.000657	<0.000630		
MW-2	09/27/19	<0.000408	<0.000367	<0.000657	<0.000630		
MW-2	08/13/20	0.00141 J	* 0.00175 J	<0.000657	0.00073 J		
MW-2	09/24/21	<0.00408	<0.00367	<0.00657	<0.00642		

J - Analyte detected below quantitation limit

\* - detected in trip blank (0.00165 mg/L J)



TABLE 2   GROUNDWATER ELEVATIONS   Artesia Tank Farm, Eddy County, New Mexico							
Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet AMSL)	Total Depth (Feet)	Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)		
MW-1	11/30/16	NS	60.00	28.99	ND		
MW-1	07/12/17	NS	62.88	30.84	ND		
MW-1	07/10/18	NS			ND		
MW-1	09/27/19	NS		36.52	ND		
MW-1	08/13/20	NS	62.60	33.67	ND		
MW-1	09/24/21	NS	62.60	32.95	ND		
MW-2	11/30/16	NS	60.00	27.98	ND		
MW-2	07/12/17	NS	62.38	29.98	ND		
MW-2	07/10/18	NS			ND		
MW-2	09/27/19	NS		35.70	ND		
MW-2	08/13/20	NS	62.30	33.02	ND		
MW-2	09/24/21	NS	62.30	32.16	ND		

BTOC - Below the top of casing

AMSL - Above Mean Sea Level

NS - Not surveyed

ND - Not Determined



# APPENDIX A

Laboratory Analytical Reports & Chain of Custody Documentation

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# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

# Laboratory Job ID: 880-6467-1

Laboratory Sample Delivery Group: CEN21-021 Client Project/Site: Artesia Tank Farm

# For:

Apex Companies LLC 505 N Big Springs St Suite 301A Midland, Texas 79701

Attn: Aaron Sides



Authorized for release by: 9/30/2021 8:23:24 PM Mike Kimmel, Project Manager (214)902-0300

mike.kimmel@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS Review your project results through Total Access Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env Zeleased to Imaging: 9/25/2023 11:15:41 AM

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Job ID: 880-6467-1	
SDG: CEN21-021	

# Qualifiers

LOQ

		<b></b>
GC VOA Qualifier	Qualifier Description	4
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
S1-	Surrogate recovery exceeds control limits, low biased.	5
U	Indicates the analyte was analyzed for but not detected.	
Glossary		6
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	
%R	Percent Recovery	G
CFL	Contains Free Liquid	C
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	2
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)	

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

MDC Minimum Detectable Concentration (Radiochemistry)

Limit of Quantitation (DoD/DOE)

MDLMethod Detection LimitMLMinimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit

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)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 880-6467-1 SDG: CEN21-021

# Job ID: 880-6467-1

#### Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-6467-1

#### Receipt

The samples were received on 9/24/2021 3:41 PM. 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

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

4

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# **Client Sample Results**

Client: Apex Companies LLC Project/Site: Artesia Tank Farm

### Client Sample ID: MW-1 Date Collected: 09/24/21 11:00 Date Received: 09/24/21 15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.756	J	2.00	0.408	ug/L			09/30/21 05:51	1
Toluene	1.45	J	2.00	0.367	ug/L			09/30/21 05:51	1
Ethylbenzene	<0.657	U	2.00	0.657	ug/L			09/30/21 05:51	1
m-Xylene & p-Xylene	0.678	J	4.00	0.629	ug/L			09/30/21 05:51	1
o-Xylene	<0.642	U	2.00	0.642	ug/L			09/30/21 05:51	1
Xylenes, Total	0.678	J	4.00	0.642	ug/L			09/30/21 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130					09/30/21 05:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130					09/30/21 05:51	1

# Client Sample ID: MW-2

# Date Collected: 09/24/21 12:05

Date	<b>Received:</b>	09/24/21	15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.08	U	20.0	4.08	ug/L			09/30/21 11:03	10
Toluene	<3.67	U	20.0	3.67	ug/L			09/30/21 11:03	10
Ethylbenzene	<6.57	U	20.0	6.57	ug/L			09/30/21 11:03	10
m-Xylene & p-Xylene	<6.29	U	40.0	6.29	ug/L			09/30/21 11:03	10
o-Xylene	<6.42	U	20.0	6.42	ug/L			09/30/21 11:03	10
Xylenes, Total	<6.42	U	40.0	6.42	ug/L			09/30/21 11:03	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			-		09/30/21 11:03	10
1,4-Difluorobenzene (Surr)	102		70 - 130					09/30/21 11:03	10

#### Client Sample ID: FB-01 Date Collected: 09/24/21 12:10 Date Received: 09/24/21 15:41

Method: 8021B - Volatile Organic Compounds (GC) **Result Qualifier** Analyte RL MDL Unit D Prepared Analyzed Dil Fac <4.08 U Benzene 20.0 4.08 ug/L 09/30/21 11:30 10 Toluene <3.67 U 20.0 09/30/21 11:30 3.67 ug/L 10 Ethylbenzene <6.57 U 20.0 6.57 ug/L 09/30/21 11:30 10 m-Xylene & p-Xylene <6.29 U 40.0 6.29 ug/L 09/30/21 11:30 10 6.42 ug/L o-Xylene <6.42 U 20.0 09/30/21 11:30 10 Xylenes, Total <6.42 U 40.0 6.42 ug/L 09/30/21 11:30 10 Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 111 70 - 130 09/30/21 11:30 10 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 107 70 - 130 09/30/21 11:30 10

Job ID: 880-6467-1 SDG: CEN21-021

# Lab Sample ID: 880-6467-1

Lab Sample ID: 880-6467-2

Lab Sample ID: 880-6467-3

Matrix: Water

Matrix: Water

Matrix: Water

9/30/2021

# **Surrogate Summary**

Client: Apex Companies LLC Project/Site: Artesia Tank Farm

# Method: 8021B - Volatile Organic Compounds (GC) Matrix: Water

-	Percent Surrogate I					
		BFB1	DFBZ1			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
880-6467-1	MW-1	108	107			
880-6467-2	MW-2	102	102			
880-6467-3	FB-01	111	107			
LCS 880-8514/65	Lab Control Sample	102	109			
LCSD 880-8514/66	Lab Control Sample Dup	106	108			
MB 880-8514/39	Method Blank	63 S1-	93			
MB 880-8514/70	Method Blank	64 S1-	93			
Surrogate Legend						

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

5 6

Job ID: 880-6467-1 SDG: CEN21-021

# **QC Sample Results**

**Client: Apex Companies LLC** Project/Site: Artesia Tank Farm

Analysis Batch: 8514

# Method: 8021B - Volatile Organic Compounds (GC)

### Lab Sample ID: MB 880-8514/39 **Matrix: Water**

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.408	U	2.00	0.408	ug/L			09/29/21 13:21	1
Toluene	<0.367	U	2.00	0.367	ug/L			09/29/21 13:21	1
Ethylbenzene	<0.657	U	2.00	0.657	ug/L			09/29/21 13:21	1
m-Xylene & p-Xylene	<0.629	U	4.00	0.629	ug/L			09/29/21 13:21	1
o-Xylene	<0.642	U	2.00	0.642	ug/L			09/29/21 13:21	1
Xylenes, Total	<0.642	U	4.00	0.642	ug/L			09/29/21 13:21	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130			-		09/29/21 13:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130					09/29/21 13:21	1

#### Lab Sample ID: MB 880-8514/70 Matrix: Water Analysis Batch: 8514

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.408	U	2.00	0.408	ug/L			09/30/21 02:51	1
Toluene	<0.367	U	2.00	0.367	ug/L			09/30/21 02:51	1
Ethylbenzene	<0.657	U	2.00	0.657	ug/L			09/30/21 02:51	1
m-Xylene & p-Xylene	<0.629	U	4.00	0.629	ug/L			09/30/21 02:51	1
o-Xylene	<0.642	U	2.00	0.642	ug/L			09/30/21 02:51	1
Xylenes, Total	<0.642	U	4.00	0.642	ug/L			09/30/21 02:51	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130					09/30/21 02:51	1

70 - 130

93

# 1,4-Difluorobenzene (Surr)

#### Lab Sample ID: LCS 880-8514/65 **Matrix: Water** Analysis Batch: 8514

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	100	79.30		ug/L		79	70 - 130	
Toluene	100	87.34		ug/L		87	70 - 130	
Ethylbenzene	100	89.62		ug/L		90	70 - 130	
m-Xylene & p-Xylene	200	193.2		ug/L		97	70 - 130	
o-Xylene	100	100.3		ug/L		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

#### Lab Sample ID: LCSD 880-8514/66 **Matrix: Water** Analysis Batch: 8514 Spike LCSD LCSD %Rec. Added Result Qualifier Unit Limits Analyte D %Rec Benzene 100 77.79 ug/L 78 70 - 130

#### **Client Sample ID: Method Blank** Prep Type: Total/NA

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# **Client Sample ID: Method Blank**

Prep Type: Total/NA

<b>Client Sample I</b>	D:	Lab Control Sample
		Prep Type: Total/NA

09/30/21 02:51

1

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

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RPD

2

RPD

Limit

20

# **QC Sample Results**

Client: Apex Companies LLC Project/Site: Artesia Tank Farm

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8514/66 Matrix: Water Analysis Batch: 8514			C	Client Sa	ample	ID: Lat	Control S Prep Ty		
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	100	85.14		ug/L		85	70 - 130	3	20
Ethylbenzene	100	87.61		ug/L		88	70 - 130	2	20
m-Xylene & p-Xylene	200	189.5		ug/L		95	70 - 130	2	20
o-Xylene	100	99.76		ug/L		100	70 - 130	1	20
				0					

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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# **QC Association Summary**

Client: Apex Companies LLC Project/Site: Artesia Tank Farm Job ID: 880-6467-1 SDG: CEN21-021

# GC VOA

# Analysis Batch: 8514

alysis Batch: 851	•				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-6467-1	MW-1	Total/NA	Water	8021B	
80-6467-2	MW-2	Total/NA	Water	8021B	
30-6467-3	FB-01	Total/NA	Water	8021B	
B 880-8514/39	Method Blank	Total/NA	Water	8021B	
3 880-8514/70	Method Blank	Total/NA	Water	8021B	
CS 880-8514/65	Lab Control Sample	Total/NA	Water	8021B	
CSD 880-8514/66	Lab Control Sample Dup	Total/NA	Water	8021B	

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# Lab Chronicle

Job ID: 880-6467-1 SDG: CEN21-021

Matrix: Water

Lab Sample ID: 880-6467-1

# Client Sample ID: MW-1 Date Collected: 09/24/21 11:00 Date Received: 09/24/21 15:41

**Client: Apex Companies LLC** 

Project/Site: Artesia Tank Farm

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA									MR	
TOLAI/INA	Analysis	8021B		I	5 mL	5 mL	8514	09/30/21 05:51	IVIT	XEN MID
Client Sam	ple ID: MW	-2						Lab Sample	e ID: 88	0-6467-
ate Collecte	d: 09/24/21 1	2:05						-	Ma	trix: Wate
Date Receive	d: 09/24/21 1	5:41								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	8514	09/30/21 11:03	MR	XEN MID
Client Sam	ole ID: FB-	01						Lab Sample	e ID: 88	0-6467-
Date Collecte										trix: Wate
Date Receive										
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type		Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	<b>Type</b> Analysis	8021B		10	5 mL	5 mL	8514	09/30/21 11:30	MR	XEN MID

Laboratory References:

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

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# **Accreditation/Certification Summary**

Client: Apex Companies LLC Project/Site: Artesia Tank Farm Job ID: 880-6467-1 SDG: CEN21-021

# Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

uthority	Program	Identification Number	Expiration Date	
exas	NELAP	T104704400-21-22	06-30-22	

# **Method Summary**

#### **Client: Apex Companies LLC** Project/Site: Artesia Tank Farm

Job ID: 880-6467-1 SDG: CEN21-021

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID

#### **Protocol References:**

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

#### Laboratory References:

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

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# Sample Summary

Client: Apex Companies LLC Project/Site: Artesia Tank Farm Job ID: 880-6467-1 SDG: CEN21-021

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6467-1	MW-1	Water	09/24/21 11:00	09/24/21 15:41
880-6467-2	MW-2	Water	09/24/21 12:05	09/24/21 15:41
880-6467-3	FB-01	Water	09/24/21 12:10	09/24/21 15:41

Released to Imaging: 9/25/2023 11:15:41 AM

SL-Sludge O - Oil er	C - Charcoal tube P/O Plastic or other		Ind L Liquid A - Air Bag 250 ml Glass wide mouth	W - Water S Soil SD - Solid A/G - Amber / Or Glass 1 Liter	W - Water A/G - Amber /	r VOA - 40 ml vial	Matrix Container
	Time	Date	Received by (Signature)	Time Recei	Date	Relinquished by (Signature)	Relinqui
	Time	Date	Received by (Signature)	Time Recei	Date	Relinquished by (Signature)	Relinqui
	Time	Date	Received by (Signature)	Time Recei	Date	Refinquished by (Signature)	Refinqui
NOTES	ISH (	Date 1/24/121	Received by (Signature)	Time Recei	Date 9/&4/2/	Heimpushed by signature	Helmqu
			100% Rush	Rush	ush	Turn around time Solution Normal	Turn aro
			NFE				
				Carlos a seconda de la constanción de la const			
				•			1
	$\times$		8	01	FB-01	1210	3
	$\times$		Ŵ	-2	MW-2	1205	S
	×		5	-	X MW-1	9/24/21 1100	3
Lab Sample ID (Lab Use Only)		250 ml Glass Jar P/O	Start Depth End Depth VOA A/G 1 Lt.	Identifying Marks of Sample(s)	a Identifying N	Date Time of p	Matrix
	ß	6 %		Touck Farm	rtesia	- 021	CENZI
	TE	Containers	No/Type of Containers	Ø	Project Name	C	Proj No
	x		PAL	fla		John Faught	
	0.0		ature	Sampler's Signature		Sampler's Name	Sampler
	1			PO/SO #:	6.5	Project Manager A. Sider	Projec
	I			Phone:	79701	Midland, tx	
	· · · · ·	c/	Mike Kimme	Contact	g Ste Joik	505 N. Big Spring	50
<b>HARDING THE DEFINITION OF CONTRACT OF CO</b>	I I	TX 7970/	land,		ind	Office Location Midland	Office
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CHAIN OF C	-						
4040-040 407-040			•				
			2  3  4	9	7 8	3 4 5 6	2

Apex TITAN, Inc • 505 N Big Spring Street, Suite 301A • Midland, Texas 79701 • Office 432-695-6016

9/30/2021

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# Login Sample Receipt Checklist

Client: Apex Companies LLC

#### Login Number: 6467 List Number: 1 Creator: Phillips, Kerianna

<6mm (1/4").

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	N/A	

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Job Number: 880-6467-1 SDG Number: CEN21-021

List Source: Eurofins Xenco, Midland

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 93790

CONDIT	IONS
Operator:	OGRID:
CENTURION PIPELINE L.P.	237722
516 Veterans Airpark Lane	Action Number:
Midland, TX 79705	93790
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2021 Annual Groundwater Monitoring Report: Content is satisfactory 1. Continue to monitor groundwater wells and sample as prescribed by NMOCD. 2 Continue removal of LNAPL when appropriate conditions are present and document these activities. 3. Submit the 2022 and 2023 Annual Groundwater Reports, unless already uploaded. GW Monitoring Report must be submitted no later than April 1, 2024.	9/25/2023