

**From:** [Smith, Cory, EMNRD](#)  
**To:** [Kyle Summers](#)  
**Cc:** [kwchristesen@blm.gov](#) ([kwchristesen@blm.gov](#)); [Griswold, Jim, EMNRD](#); [Billings, Bradford, EMNRD](#); [Marc Gentry](#); [Drewry, Scott](#); [Cooksey, Nick](#); [Miller, Greg](#)  
**Subject:** RE: (OCD RP: 3R-451) Lateral K-7 (2012) - AGMR & Closure Report  
**Date:** Monday, January 13, 2020 11:06:49 AM

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Kyle,

I will put it in Que to be reviewed, if it met all the requirements to be closed it will be closed and not transitioned over to a Stage 1.

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Kyle Summers <[ksummers@ensolum.com](mailto:ksummers@ensolum.com)>  
**Sent:** Wednesday, January 8, 2020 3:44 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** [kwchristesen@blm.gov](#) ([kwchristesen@blm.gov](#)) <[kwchristesen@blm.gov](#)>; [Griswold, Jim, EMNRD](#) <[Jim.Griswold@state.nm.us](#)>; [Billings, Bradford, EMNRD](#) <[Bradford.Billings@state.nm.us](#)>; [Marc Gentry](#) <[mgentry@ensolum.com](#)>; 'Drewry, Scott' <[sdrewry@eprod.com](#)>; 'Cooksey, JN - EHS&T' <[jncooksey@eprod.com](#)>; [Miller, Greg](#) <[GEMiller@eprod.com](#)>  
**Subject:** [EXT] (OCD RP: 3R-451) Lateral K-7 (2012) - AGMR & Closure Report

Mr. Smith,

I have attached the electronic copy of the above-referenced report. Hard copies of this report were mailed to the NMOCD and BLM by Enterprise on December 10, 2019. I was informed that Whitney Thomas is no longer the point of contact for the BLM, so I have copied Kenneth Christesen on this email. If you think it should go to someone else, please let me know. This is a GW site that was essentially at the point of closure when the NMAC revisions were implemented and as such the NMOCD did not request a Stage 1 Abatement Plan for it. With Vanessa Fields' departure from the NMOCD, I don't know if you are/were familiar with the site. The final C-141 included at the end of the report has not yet been signed, but if you are in agreement that the site is ready for closure, Enterprise will upload the report and the completed C-141 to the fee site. If you have any questions, feel free to reach out.

Respectfully,  
Kyle Summers

**Kyle Summers**  
Ensolum, LLC | Environmental & Hydrogeologic Consultants  
606 South Rio Grande, Suite A | Aztec, NM 87410

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ENTERPRISE PRODUCTS PARTNERS L.P.  
ENTERPRISE PRODUCTS GP, LLC  
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

December 3, 2019

**Return Receipt Requested**

Certified Mail No. 7018 1830 0001 4779 0466

Mr. Cory Smith  
New Mexico Energy, Minerals & Natural Resources  
Department – Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**RE: 2018 Annual Groundwater Monitoring Report (Ensolum, December 5, 2019)**  
Enterprise Field Services, LLC  
**Lateral K-7 Pipeline Release (8/30/2012)**  
Rio Arriba County, New Mexico  
**OCD RP: 3R-451**

Dear Mr. Smith:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is submitting one hard copy and one electronic copy of the above-referenced report that summarizes results of the quarterly groundwater monitoring and sampling (GWM&S) events conducted at the above-referenced location (Site). The data contained in the report covers the period between January 1, 2018 and December 31, 2018 (the "reporting period").

Based on data and results presented in the attached report, constituent of concern (COC) concentrations were not identified above the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs) during the four (4) sampling events. These four events complete nine consecutive quarters of GWM&S events where COC concentrations were below the WQCC GQSs. As such, Enterprise requests that the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) grant permission to plug and abandon the monitoring wells in accordance with New Mexico Administrative Code (NMAC) 19.15.25 and requests that a no further action (NFA) status be issued for the Site.

Enterprise appreciates the OCD's continued assistance and guidance in bringing this Site to closure. Should you have any questions, comments or concerns, or require additional information, please feel free to contact me any time at 713-381-8780, or at [gemiller@eprod.com](mailto:gemiller@eprod.com).

Sincerely,

Gregory E. Miller, P.G.  
Supervisor, Environmental

Rodney M. Sartor, REM  
Sr. Director, Environmental

cc: Ms. Whitney Thomas – BLM, Farmington, NM (landowner)  
ec: Mr. Cory Smith – NMOCD, Aztec, NM  
Mr. Jim Griswold – NMOCD, Santa Fe, NM  
Mr. Brad Billings – NMOCD, Santa Fe, NM  
Mr. Liz Scaggs – Ensolum, Dallas, TX

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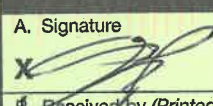
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## 2018 ANNUAL GROUNDWATER MONITORING REPORT

Property:

**Lateral K-7 Pipeline Release (2012)  
NW ¼, S27 T26N R7W  
Rio Arriba County, New Mexico**

**New Mexico EMNRD OCD RP No. 3R-451**

December 5, 2019  
Ensolum Project No. 05A1226007

Prepared for:

**Enterprise Field Services, LLC  
P.O. Box 4324  
Houston, Texas 77210-4324  
Attn: Mr. Gregory E. Miller, P.G.**

Prepared by:

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Raneet Deechilly  
Staff Scientist

---

Liz Scaggs, P.G.  
Principal



## 2018 GROUNDWATER MONITORING REPORT EXECUTIVE SUMMARY

The Lateral K-7 Pipeline Release (2012), referred to hereinafter as the "Site", is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Section 27, Township 26 North, Range 7 West, in Rio Arriba County, New Mexico.

On August 30, 2012, a release of natural gas and associated pipeline liquids was discovered at the Site. During September 2012, field screening of soil samples collected from the pipeline repair excavation and four (4) test pits completed outside the excavation indicated petroleum hydrocarbon affected soils were present at the Site. During December 2012, Animas Environmental Services, LLC (AES) advanced eight (8) soil borings (SB-1 through SB-8) at the Site to delineate the extent of petroleum hydrocarbon affected soil and potentially impacted groundwater. Samples collected from the soil borings exhibited concentrations of constituents of concern (COCs) in soil and groundwater above the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) standards and the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs).

During October 2013, AES advanced five (5) additional soil borings which were completed as groundwater monitoring wells. COCs were subsequently identified in groundwater samples collected from the monitoring wells at concentrations that exceed the WQCC GQSs. This original monitoring well network was sampled semi-annually until June, 2015 by AES and then by Apex Titan, Inc. (Apex).

Following a pipeline modification event at the Site during August 2015, Enterprise elected to perform additional corrective action activities to remove residual petroleum hydrocarbon affected soils. During corrective action activities, all on-Site monitoring wells were plugged and abandoned (P&A'd) to allow the excavation of affected soils (*Corrective Action Report*, dated January 21, 2016 – Apex).

During November 2016, after receiving the required United States Bureau of Land Management (BLM) Plan of Development (POD) approval, Apex advanced six (6) soil borings at the Site and completed the soil borings as monitoring wells MW-1A through MW-6A to replace/enhance the monitoring network that was removed during soil remediation activities. Sample results from the soil borings did not indicate COCs in soil at concentrations in excess of EMNRD OCD standards. Analytical results for groundwater samples collected from the monitoring wells during the December 2016 and March 2017 sampling events did not indicate COC concentrations above the applicable WQCC GQSs (*Supplemental Environmental Site Investigation and Groundwater Sampling Report* (November/December 2016 and March 2017, dated August 16, 2017 - Apex).

Groundwater sampling events were conducted by Apex during April, June, September, and December 2018. The objectives of the groundwater monitoring events described herein were to further evaluate groundwater conditions at the Site with respect to WQCC GQSs and to demonstrate natural attenuation following the removal of affected soils. Findings and recommendations based on these activities are as follows:

Findings and recommendations based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the north-northwest, with an approximate average gradient of 0.008 feet per foot (ft/ft) across the Site.
- During the April, June, September, and December 2018 sampling events, the groundwater samples collected from monitoring wells MW-1A through MW-6A did not exhibit benzene, toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.



Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;
- Request that no further action be required in relation to this release based on:
  - Nine (9) consecutive groundwater sampling events have demonstrated no residual impact to groundwater above abatement standards, and
  - Removal of all hydrocarbon-impacted soil completed in 2015.
- Request approval to plug and abandon the monitoring wells.

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## 2018 ANNUAL GROUNDWATER MONITORING REPORT

New Mexico EMNRD OCD RP No. 3R-451

Ensolum Project No. 05A1226007

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	Lateral K-7 Pipeline Release (2012) (Site)
<b>Location:</b>	36.46422° North, 107.56505° West Northwest (NW) ¼ of Section 27, Township 26 North, Range 7 West Rio Arriba County, New Mexico
<b>Property:</b>	United States Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

A release of natural gas and associated pipeline liquids was discovered at the Site on August 30, 2012. Animas Environmental Services, LLC (AES) collected five (5) soil samples from the pipeline repair excavation and eight (8) soil samples from four (4) "test pits" completed outside the excavation. Constituent of concern (COC) concentrations were present in soil above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) standards (*Release Report for the Lateral K-7 September 2012 Release, dated September 26, 2012 – AES*).

During November 2012, AES performed delineation activities to evaluate the extent of petroleum hydrocarbon affected soils and potentially impacted groundwater, which resulted in the advancement and sampling of eight (8) soil borings (SB-1 through SB-8). Laboratory analytical results identified benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations and combined total petroleum hydrocarbon (TPH) diesel range organics (DRO) and gasoline range organics (GRO) concentrations that exceeded applicable New Mexico EMNRD OCD RALs in soil borings SB-3 and SB-8. Groundwater analytical results for groundwater samples collected from the soil borings SB-1 through SB-6 identified benzene and toluene (SB-3W) concentrations above the applicable New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standard (GQS) (*Continued Site Assessment Report, dated February 25, 2013 – AES*).

During October 2013, AES performed additional delineation activities by advancing five (5) soil borings (SB-9 through SB-13) which were completed as groundwater monitoring wells MW-1 through MW-5. At these locations, COCs were not identified in soils at concentrations above the New Mexico EMNRD OCD RALs, however benzene concentrations in groundwater were identified above the applicable New Mexico WQCC GQS at monitoring wells MW-1, MW-3, and MW-5 (*Groundwater Investigation Report, dated March 19, 2014 – AES*).

On February 18, 2014, AES conducted a groundwater monitoring event. The resulting analytical results indicate COC concentrations exceeding the WQCC GQS for benzene in monitoring wells MW-1, MW-3, and MW-5.

On November 11, 2014 and June 23, 2015, Apex TITAN, Inc. (Apex) conducted groundwater monitoring events at the Site. Groundwater samples were not obtained from monitoring well MW-5 due to an obstruction within the well casing. During the November 2014 sampling event, benzene concentrations

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exceeded the WQCC GQS at monitoring wells MW-1 and MW-3. During the June 2015 sampling event, no COC concentrations were identified above the WQCC GQSs.

During August 2015, after completing pipeline modification activities at the Site, Enterprise performed additional excavation at the Site to remove residual petroleum hydrocarbon affected soils. Approximately 1,841 cubic yards of petroleum hydrocarbon affected soils were transported to a New Mexico EMNRD OCD-approved landfarm for treatment/disposal. During corrective action activities, monitoring wells MW-1 through MW-5 were plugged and abandoned (P&A'd) to allow the excavation of the affected soils (*Corrective Action Report, dated January 21, 2016 – Apex*).

During November 2016, after receiving the required United States Bureau of Land Management (BLM) Plan of Development (POD) approval, Apex performed site investigation activities to reestablish the monitoring well network that was removed during 2015 soil remediation activities. Six (6) soil borings were advanced and completed as monitoring wells (MW-1A through MW-6A). Soil samples collected from the soil borings did not indicate COC concentrations above the applicable New Mexico EMNRD OCD RALs. Analytical results from groundwater samples collected from the monitoring wells during the December 2016 and March 2017 sampling events did not indicate COC concentrations above the applicable WQCC GQSs (*Supplemental Environmental Site Investigation and Groundwater Sampling Report (November/December 2016 and March 2017), dated August 16, 2017 – Apex*).

Quarterly groundwater monitoring events were conducted by Apex during 2017 and 2018. COC concentrations were not detected in groundwater, and the laboratory detection limits were below WQCC standards. (*Groundwater Monitoring Report (July, September, and December 2017 Sampling Events), dated August 3, 2018 – Apex*).

The Site location is depicted on **Figure 1 of Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3 of Appendix A**.

## 1.2 Project Objectives

The objectives of the groundwater monitoring events were to further evaluate groundwater conditions at the Site and demonstrate successful natural attenuation following the removal of affected soils.

## 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases* (revised 8/14/2018), which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQSs (NMAC 20.6.2) to evaluate baseline groundwater conditions.

In accordance with the NMAC 20.6.2 *Groundwater and Surface Water Protection* (effective 12/21/2018), subsurface water abatement is not considered complete until a minimum of eight (8) consecutive sampling events meet or fall below the standards of Subsections A, B, and C of NMAC 20.6.2.3103. Abatement standards for groundwater at the Site include:

- 5 micrograms per liter (µg/L) for benzene,
- 700 µg/L for ethylbenzene,
- 1,000 µg/L for toluene, and
- 620 µg/L for total xylenes.

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Soil remediation, delineation, and groundwater monitoring activities performed at the Site are detailed in the following reports:

- *Release Report for the Lateral K-7*, AES, September 26, 2012
- *Continued Site Assessment Report*, AES, February 25, 2013
- *Groundwater Investigation Report*, AES, March 19, 2014
- *Annual Groundwater Monitoring Report (February and November 2014 Sampling Events)*, Apex, April 25, 2017
- *Corrective Action Report - Lateral K-7 Pipeline Release (8/30/2012)*, Apex, January 21, 2016
- *Annual Groundwater Monitoring Report (June 2015 Sampling Event)*, Apex, February 24, 2016
- *Supplemental Environmental Site Investigation and Groundwater Sampling Report (November/December 2016 and March 2017)*, Apex, August 16, 2017
- *Groundwater Monitoring Report (July, September, and December 2017 Sampling Events)*, Apex, August 3, 2018

### 3.0 GROUNDWATER MONITORING

#### 3.1 Groundwater Sampling Program

Groundwater sampling events were conducted during April, June, September, and December 2018 by Apex TITAN, Inc. (Apex).

Information, data, and conclusions provided in the following sections and attached figures are based on information provided by Apex to Enterprise, and eyewitness accounts.

Based on information provided by Enterprise, Apex's groundwater sampling program consisted of the following:

Prior to sample collection, Apex gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquids (NAPL).

Each monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Subsequent to the completion of the micro-purge process, one (1) groundwater sample was collected from each monitoring well.

Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective is to pump in a manner that minimizes stress (drawdown) to the system, to the extent practical, taking into account established Site sampling objectives. Flow rates on the order of 0.1 to 0.5 liters per minute (L/min) are maintained during sampling activities, using dedicated or decontaminated sampling equipment.

The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are taken every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three successive readings.

Groundwater samples were collected in laboratory supplied containers, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chain-of-custody procedures.

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### 3.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the 2018 groundwater sampling events were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) utilizing Environmental Protection Agency (EPA) Method SW-846 #8021/8260. The containers were pre-preserved with mercuric chloride (HgCl<sub>2</sub>).

A summary of the per-event analytes, sample matrix, sample frequency and EPA-approved methods for all four (4) sampling events are presented on the following table.

Analytes	Sample Matrix	No. of Samples (per event)	EPA Method
BTEX	Groundwater	6	SW-846 8021/8260

Laboratory analytical results are summarized in **Table 1** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

### 3.3 Groundwater Flow Direction

Each of the monitoring wells has been surveyed to determine top-of-casing (TOC) elevations. Prior to sample collection, Apex gauged the depth to fluids in each monitoring well. The groundwater flow direction (gradient) at the Site is generally toward the north-northwest, with an average gradient of approximately 0.008 feet per foot (ft/ft) across the Site.

Groundwater measurements collected during the 2018 gauging events are presented with TOC elevations in **Table 2 (Appendix B)**. Groundwater gradient maps for the 2018 gauging events are included as **Figure 4A** through **4D (Appendix A)**.

### 3.4 Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the groundwater samples collected from monitoring wells during the April, June, September, and December 2018 sampling events to the New Mexico WQCC GQSs. The results of the groundwater sample analyses are summarized in **Table 1** of **Appendix B**. Groundwater Analytical Data maps are provided as **Figures 5A** through **5D** of **Appendix A**.

#### April, June, September, and December 2018 Sample Results:

The April, June, September, and December groundwater samples collected from monitoring wells MW-1A through MW-6A did not exhibit benzene concentrations above the laboratory PQLs, which are below the WQCC GQSs of 5 µg/L.

The April, June, September, and December groundwater samples collected from monitoring wells MW-1A through MW-6A did not exhibit toluene concentrations above the laboratory PQLs, which are below the WQCC GQSs of 700 µg/L.

The April, June, September, and December groundwater samples collected from monitoring wells MW-1A through MW-6A did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are below the WQCC GQSs of 1,000 µg/L.

The April, June, September, and December groundwater samples collected from monitoring wells MW-1A

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through MW-6A did not exhibit total xylenes concentrations above the laboratory PQLs, which are below the WQCC GQSs of 620 µg/L.

Data Qualifier Flags		
Sample ID	Data Qualifier Flag	Comments/Reactions
MW-2A (collected 4/17/2018)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference.
MW-3A (collected 4/17/2018)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference.

No data qualifier flags were associated with the June, September, and December 2018 analytical results.

#### 4.0 FINDINGS AND RECOMMENDATIONS

Groundwater sampling events were conducted by Apex at the Lateral K-7 Pipeline Release (2012) Site during April, June, September, and December 2018. The objectives of the groundwater monitoring events were to further evaluate groundwater conditions at the Site and demonstrate successful natural attenuation following the removal of affected soils.

- The groundwater flow direction at the Site is generally towards the north-northwest, with an approximate gradient of 0.008 ft/ft across the Site.
- The groundwater samples collected from monitoring wells MW-1A through MW-6A during the four (4) 2018 sampling events did not exhibit BTEX concentrations above the applicable WQCC GQSs.

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

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;
- Request that no further action be required in relation to this release based on:
  - Nine (9) consecutive groundwater sampling events have demonstrated no residual impact to groundwater above abatement standards, and
  - Removal of all hydrocarbon-impacted soil completed in 2015.
- Request approval to plug and abandon the monitoring wells.

NMOCD Form C-141 (revised 9/4/2018) is included in Appendix D to document the request for closure.

#### 5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

##### 5.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other

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third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

## 5.2 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

## 5.3 Reliance

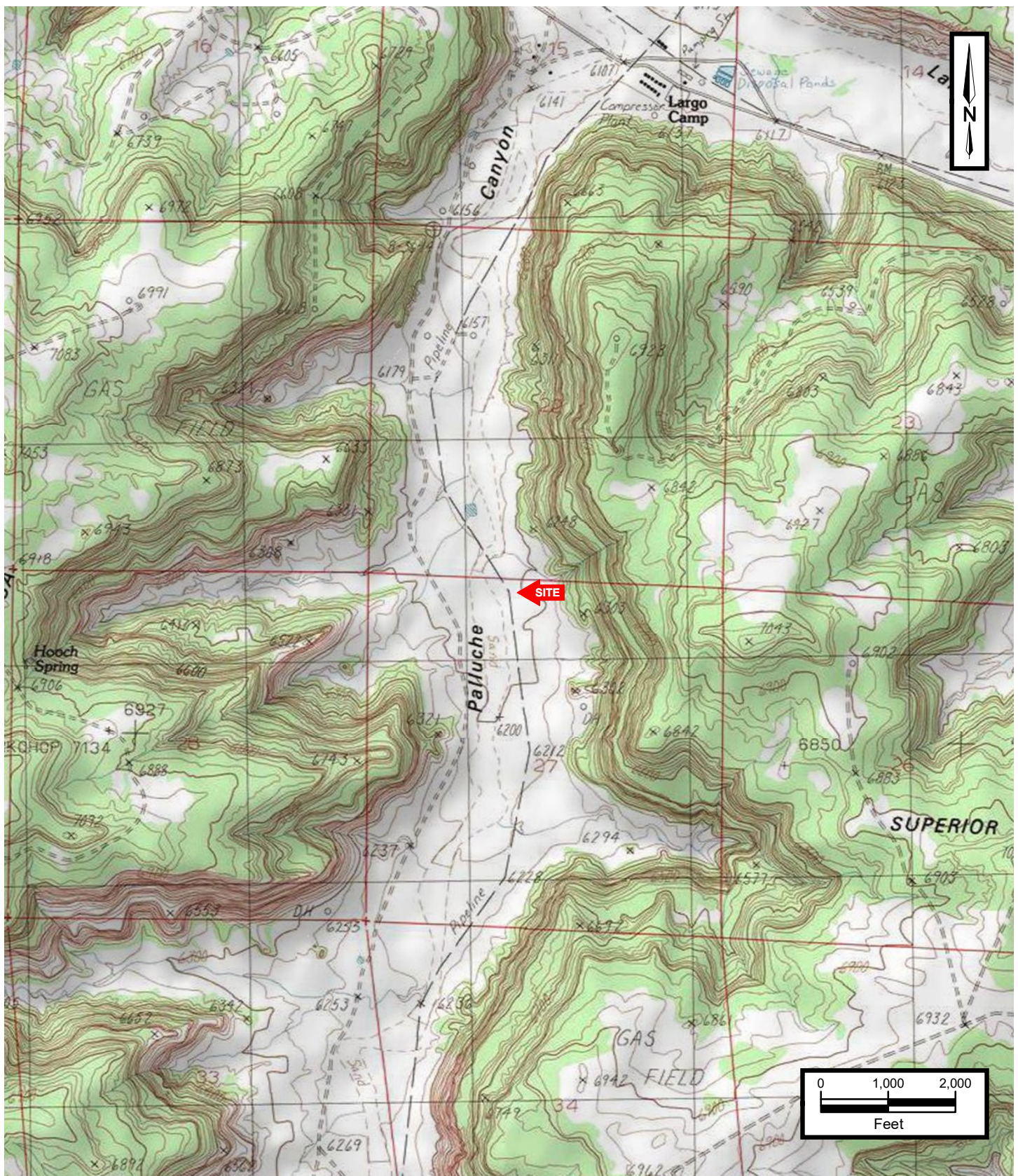
This report has been prepared for the exclusive use of Enterprise Products Operating LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Products Operating LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



## APPENDIX A

### Figures





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

### TOPOGRAPHIC MAP

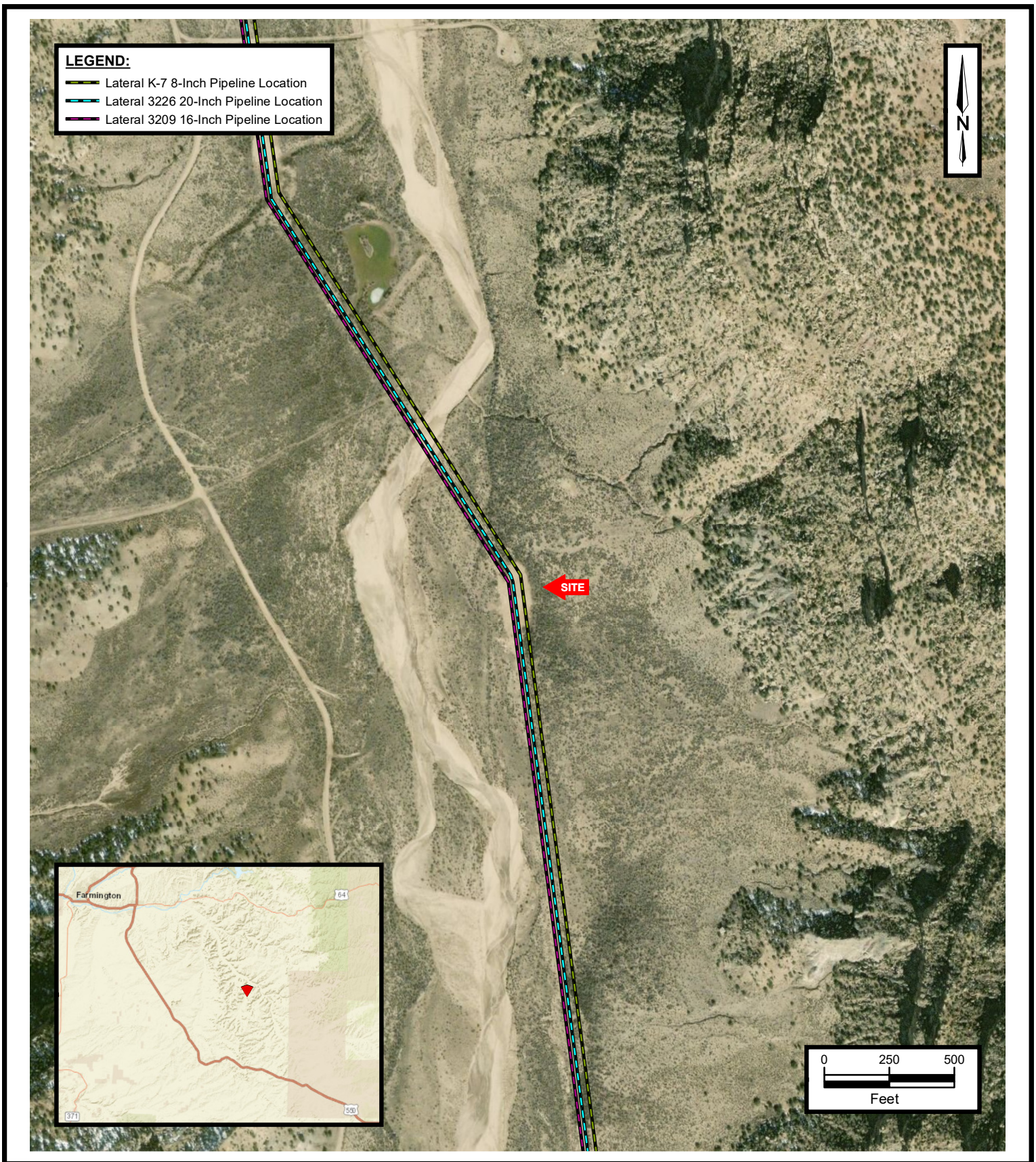
ENTERPRISE FIELD SERVICES, LLC  
LATERAL K-7 (2012) PIPELINE RELEASE  
NW ¼, S27 T26N R7W, Rio Arriba County, Texas  
36.46422° N, 107.56505° W

PROJECT NUMBER: 05A1226007

FIGURE

1





**SITE VICINITY MAP**

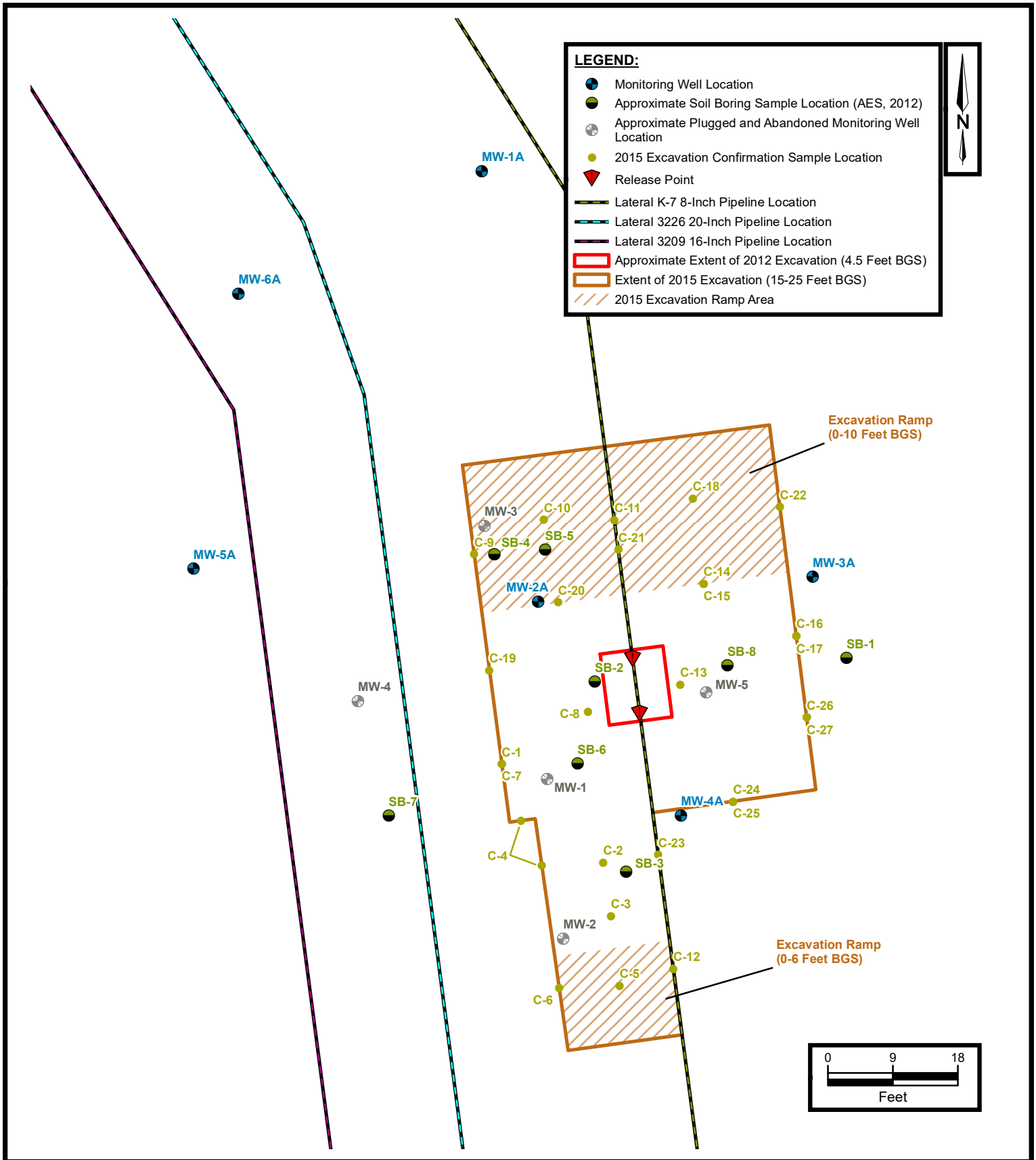
ENTERPRISE FIELD SERVICES, LLC  
LATERAL K-7 (2012) PIPELINE RELEASE  
NW ¼, S27 T26N R7W, Rio Arriba County, Texas  
36.46422° N, 107.56505° W

PROJECT NUMBER: 05A1226007

**FIGURE**

**2**



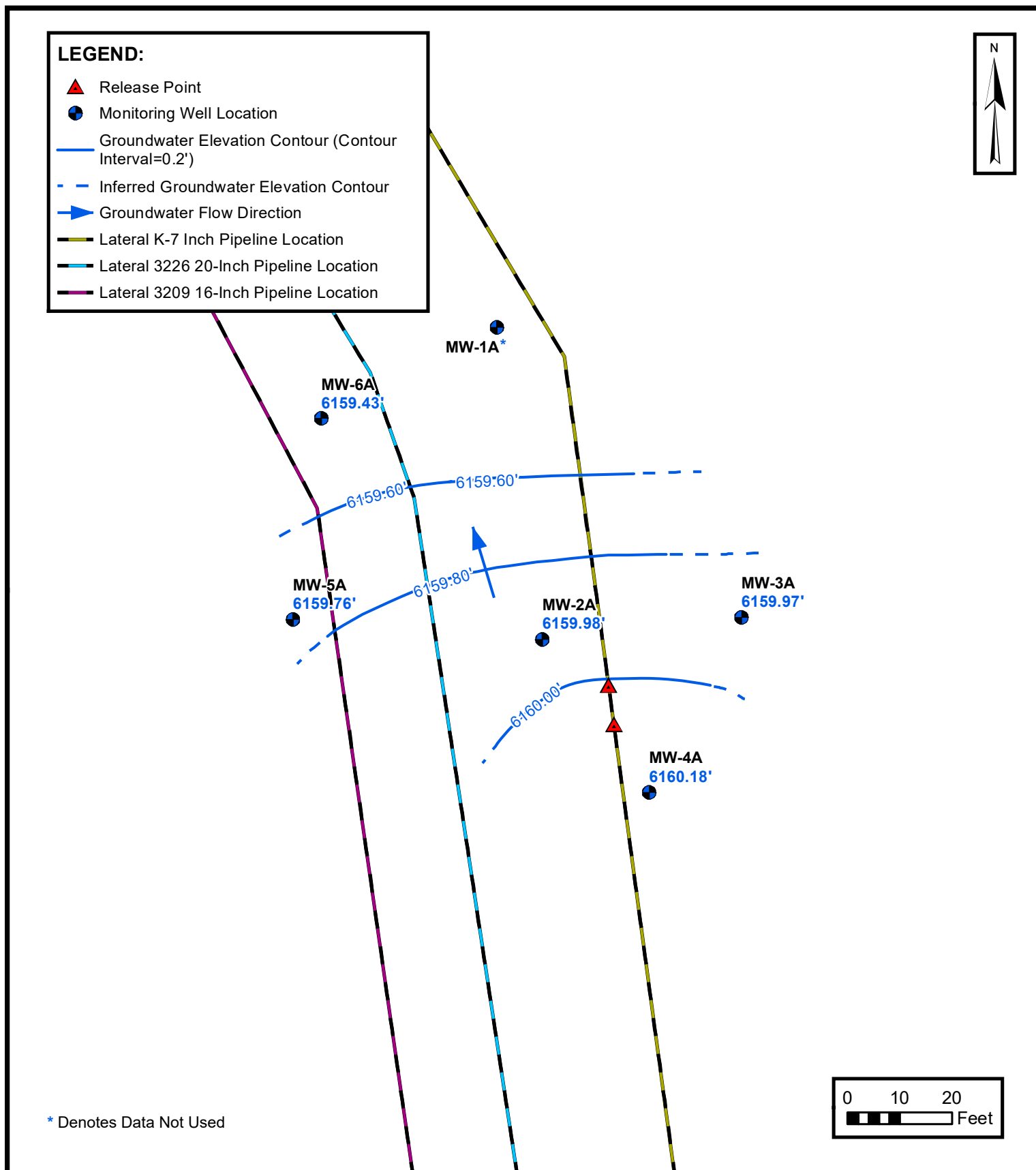


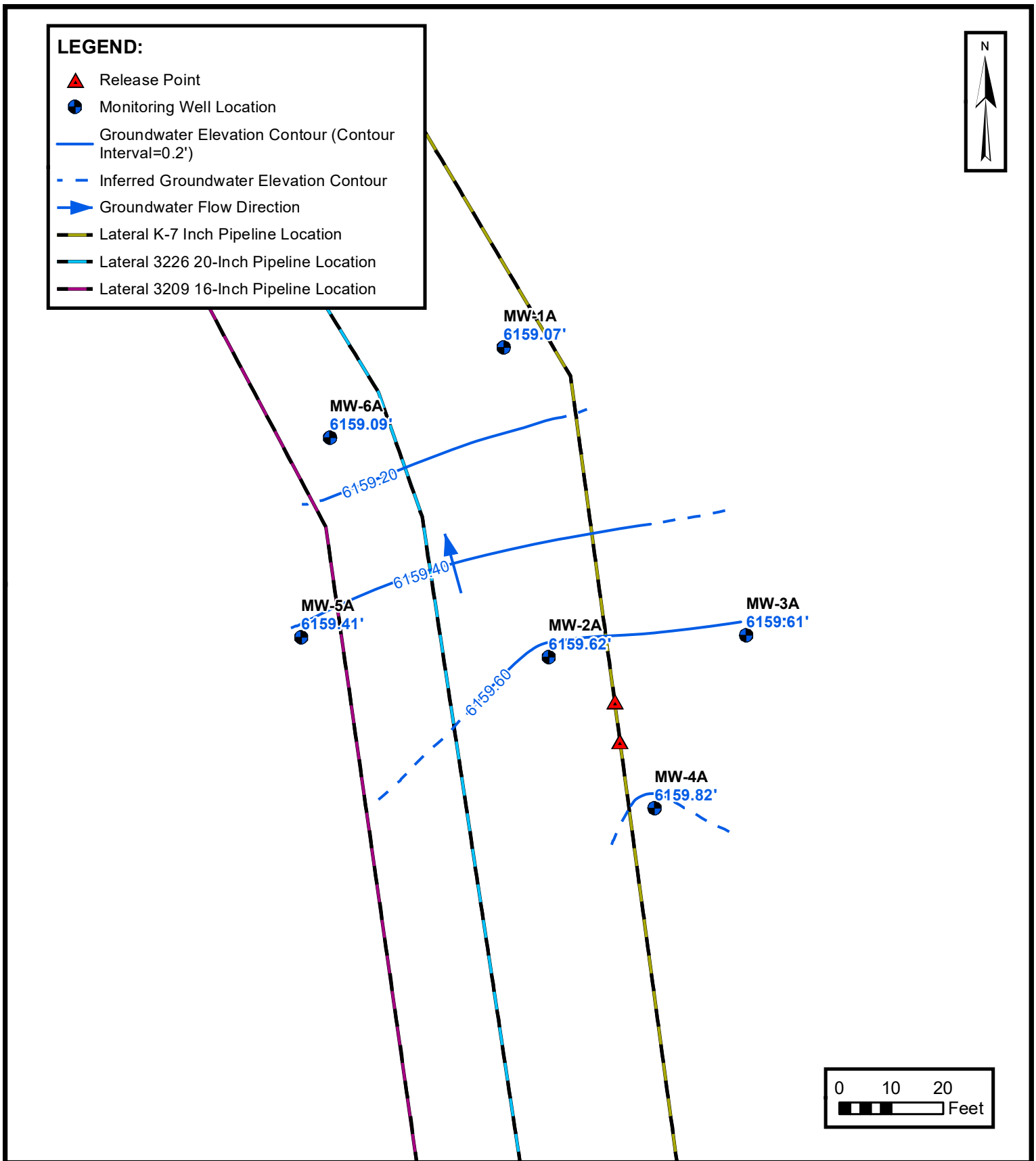
### SITE MAP

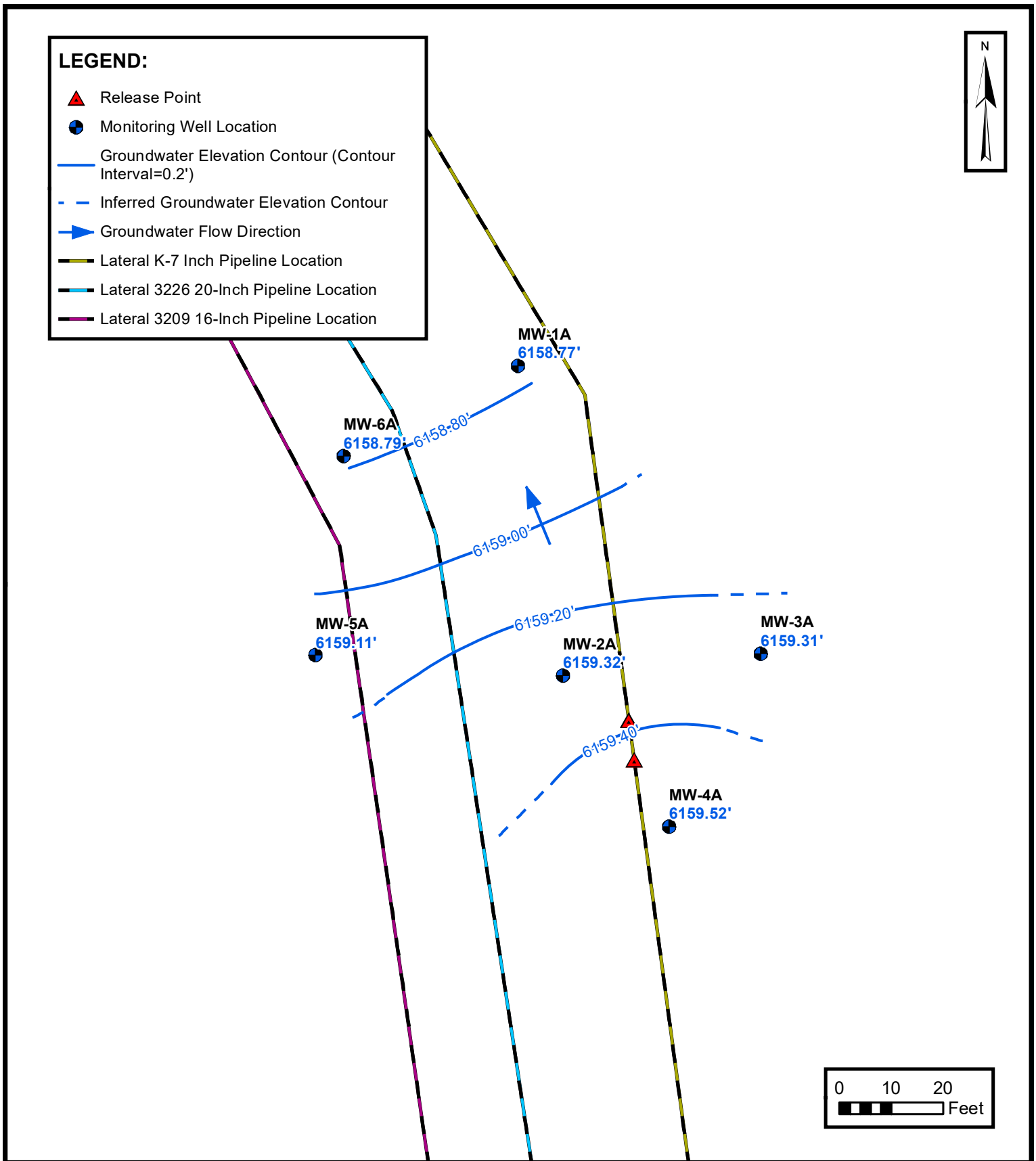
ENTERPRISE FIELD SERVICES, LLC  
LATERAL K-7 (2012) PIPELINE RELEASE  
NW ¼, S27 T26N R7W, Rio Arriba County, Texas  
36.46422° N, 107.56505° W

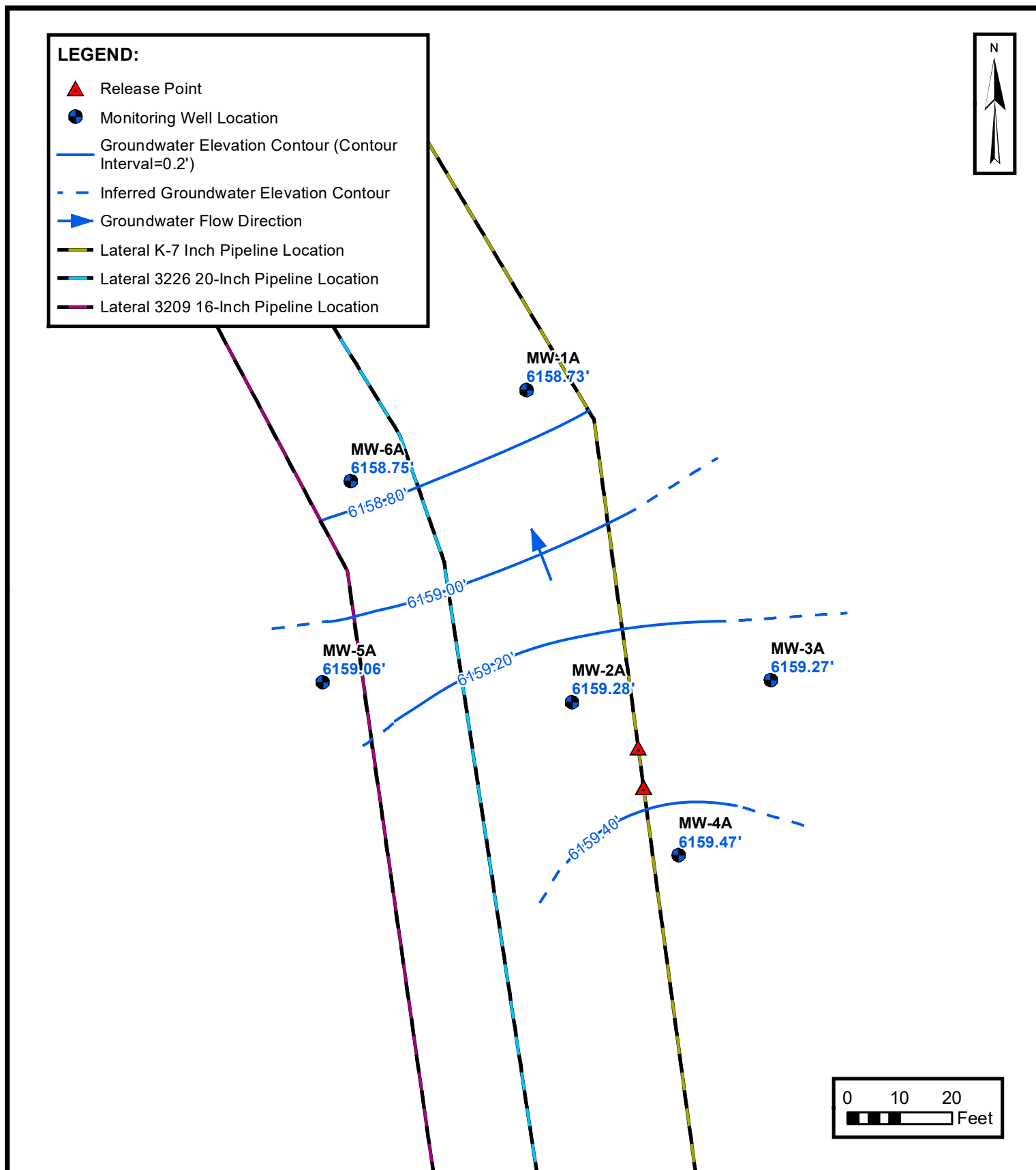
PROJECT NUMBER: 05A1226007

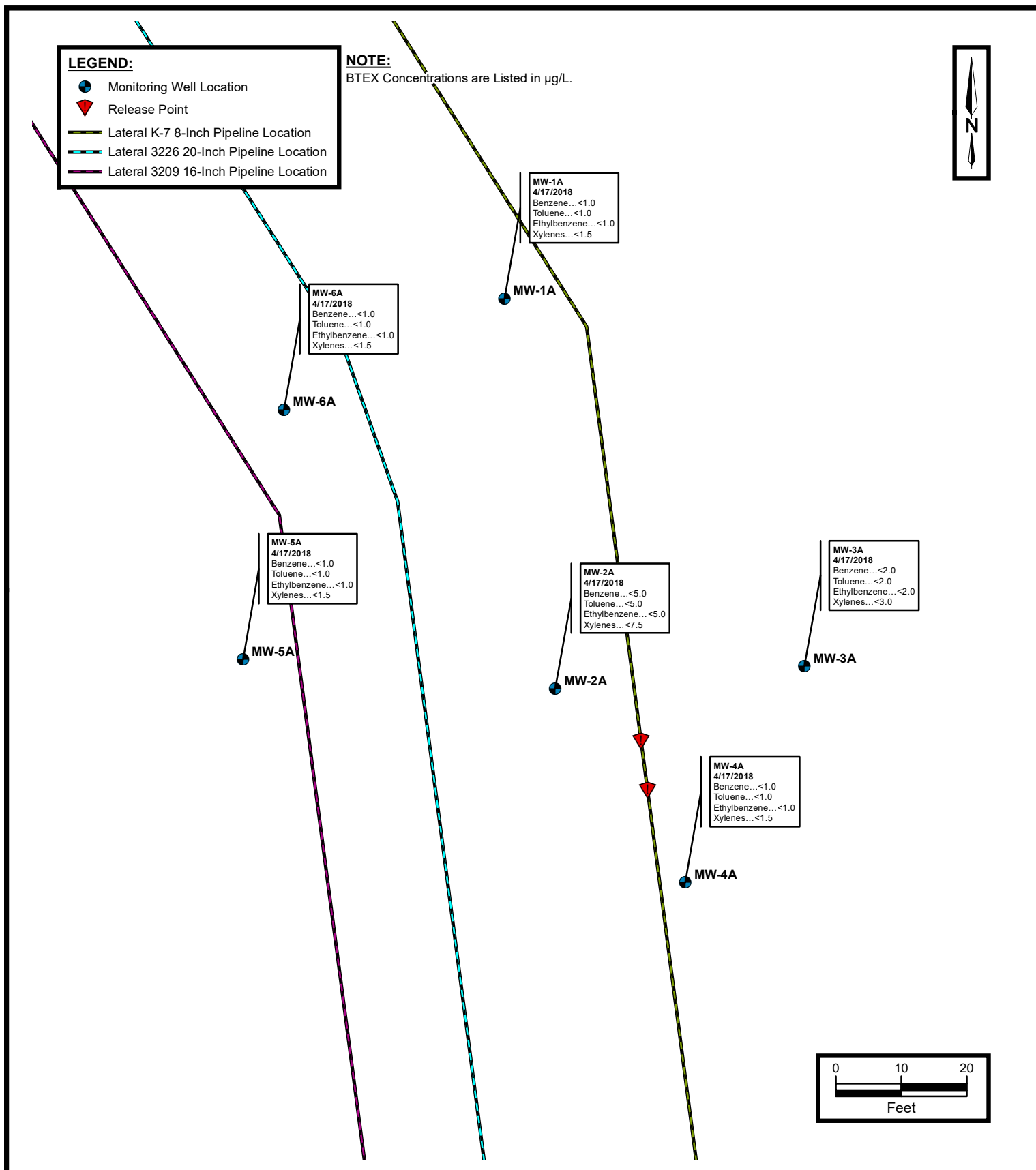
**FIGURE**  
**3**

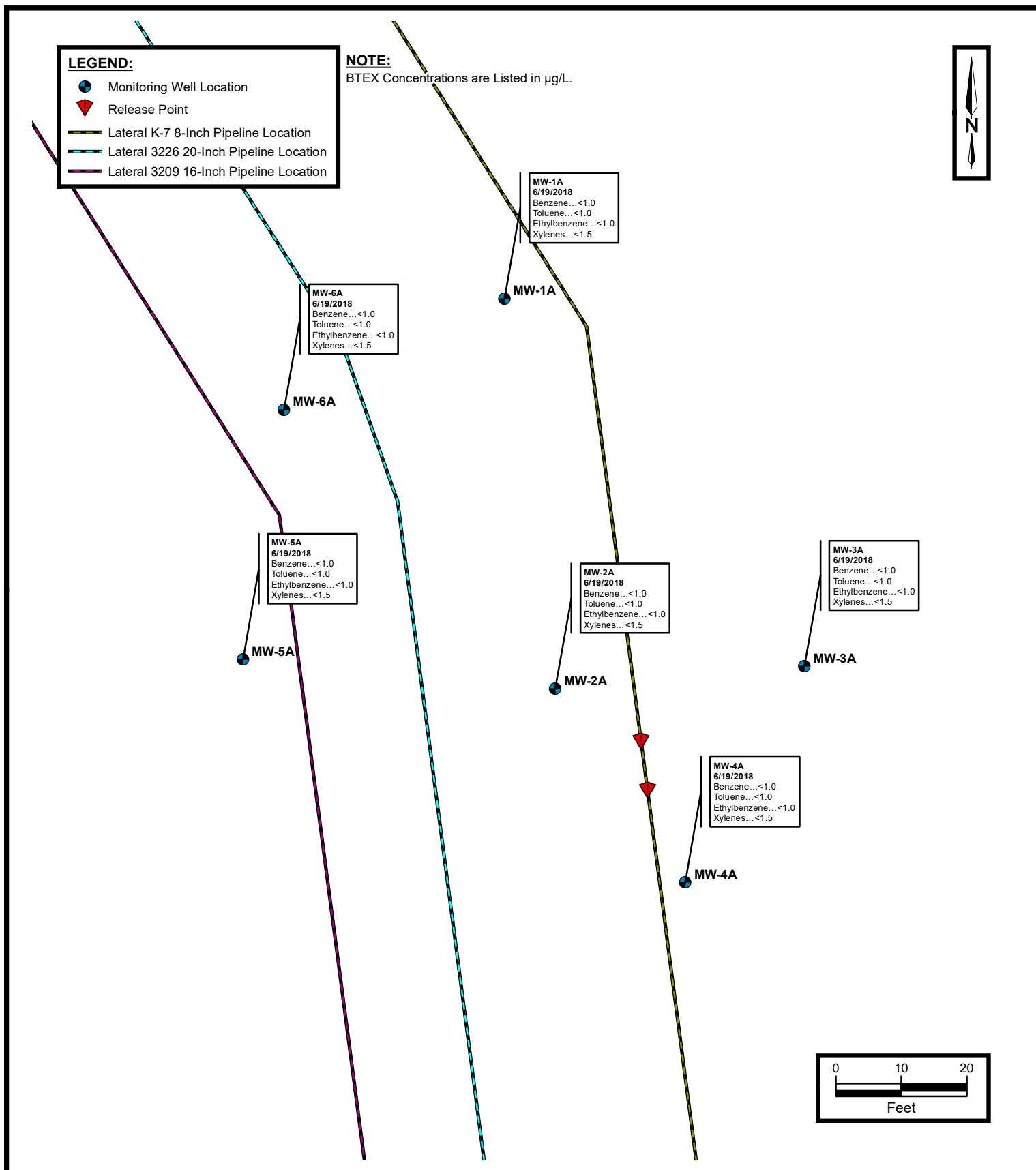




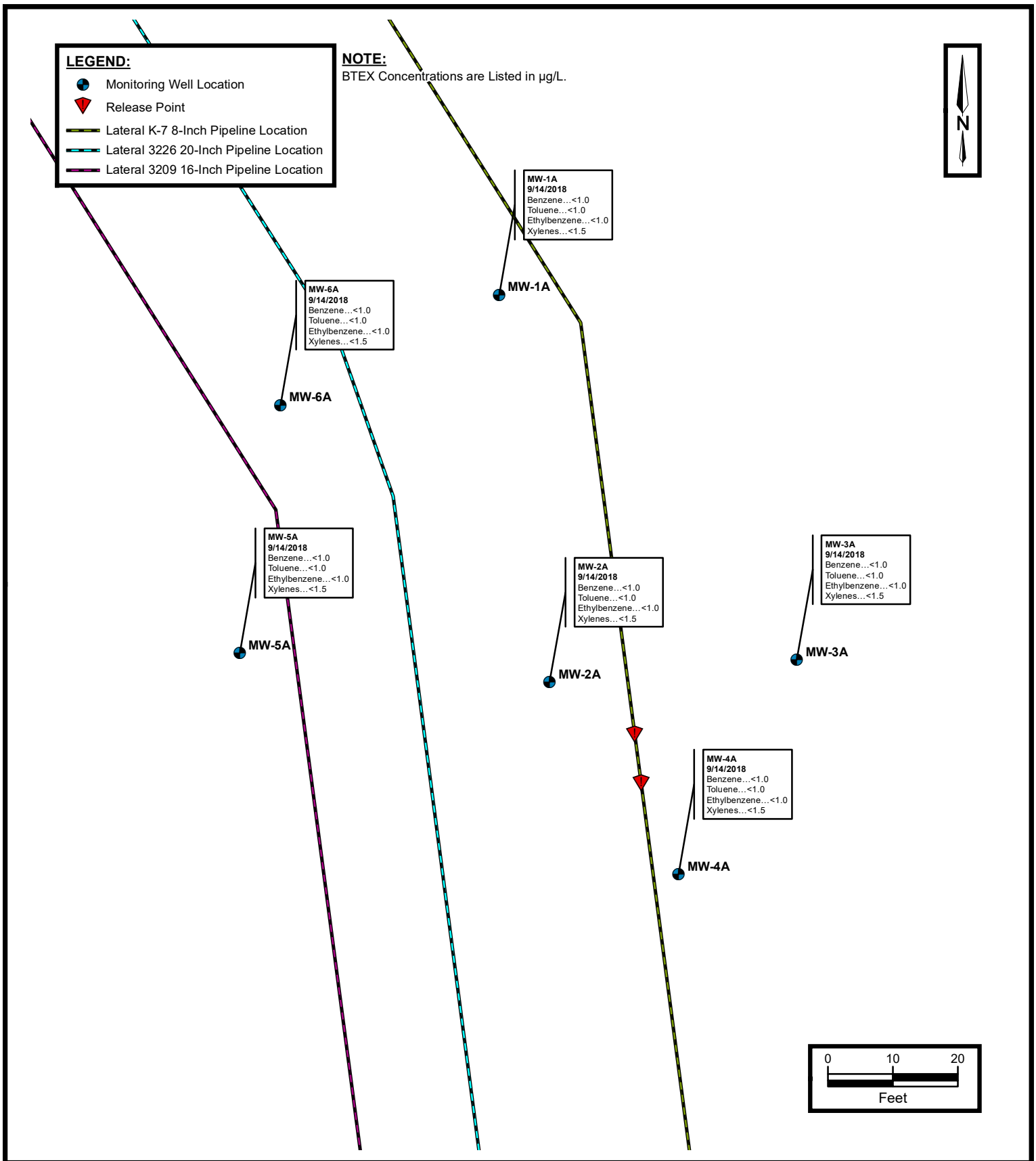










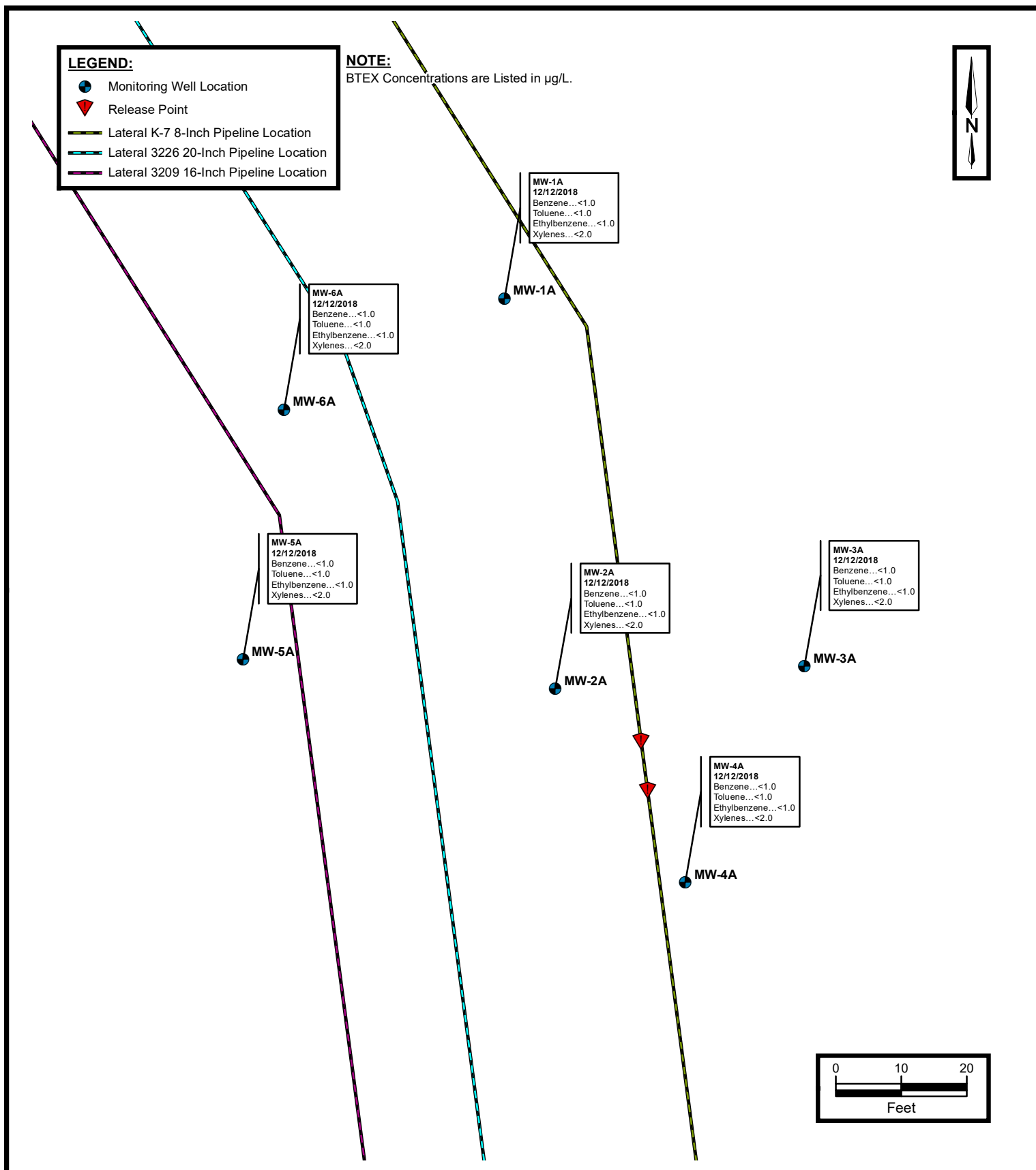


### GROUNDWATER ANALYTICAL DATA MAP (SEPTEMBER 2018)

ENTERPRISE FIELD SERVICES, LLC  
LATERAL K-7 (2012) PIPELINE RELEASE  
NW ¼, S27 T26N R7W, Rio Arriba County, Texas  
36.46422° N, 107.56505° W

PROJECT NUMBER: 05A1226007

FIGURE  
**5C**





## APPENDIX B

### Tables



**TABLE 1**  
**Lateral K-7 September 2012 Pipeline Release**  
**GROUNDWATER ANALYTICAL SUMMARY**

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	700	1,000	620	NE	NE	NE
Monitoring Wells Installed by AES								
MW-1	11.20.13	35	140	5.3	77	0.69	<1.0	NA
	2.18.14	34	96	4	58	NA	NA	NA
	11.11.14	39	240	10	170	NA	NA	NA
	6.23.15	7.4	14	<1.0	8.9	NA	NA	NA
Monitor well removed to allow soil remediation during August 2015								
MW-2	11.20.13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
	2.18.14	<1.0	<1.0	<1.0	<3.0	NA	NA	NA
	11.11.14	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	6.23.15	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
Monitor well removed to allow soil remediation during August 2015								
MW-3	11.20.13	15	31	<2.0	17	0.25	<1.0	NA
	2.18.14	21	33	<1.0	21	NA	NA	NA
	11.11.14	11	26	<1.0	18	NA	NA	NA
	6.23.15	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
Monitor well removed to allow soil remediation during August 2015								
MW-4	11.20.13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
	2.18.14	<1.0	<1.0	<1.0	<3.0	NA	NA	NA
	11.11.14	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	6.23.15	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
Monitor well removed to allow soil remediation during August 2015								
MW-5	11.20.13	90	340	9.6	200	1.7	<1.0	NA
	2.18.14	54	200	10	150	NA	NA	NA
	11.11.14	Unable to remove bailer from well						
	6.23.15	Unable to remove bailer from well						
Monitor well removed to allow soil remediation during August 2015								
Monitoring Wells Installed by Apex								
MW-1A	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	4.17.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	6.19.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.14.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-2A	12.12.18	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	4.17.18	<5.0	<5.0	<5.0	<7.5	NA	NA	NA
	6.19.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-3A	9.14.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	12.12.18	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	4.17.18	<2.0	<2.0	<2.0	<3.0	NA	NA	NA
MW-4A	6.19.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.14.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	12.12.18	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA



**TABLE 1**  
**Lateral K-7 September 2012 Pipeline Release**  
**GROUNDWATER ANALYTICAL SUMMARY**

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	700	1,000	620	NE	NE	NE
MW-5A	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	4.17.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	6.19.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.14.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-6A	12.12.18	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.13.16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3.28.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	7.03.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.22.17	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	12.14.17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	4.17.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	6.19.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	9.14.18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	12.12.18	<1.0	<1.0	<1.0	<2.0	NA	NA	NA

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

µg/L= micrograms per liter

mg/L= milligrams per liter

NA = Not Analyzed

NE= Not Established

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

<1.0 = the numeral (in this case "1.0") identifies the laboratory reporting limit or practical quantitation limit



TABLE 2							
Lateral K-7 September 2012 Pipeline Release							
GROUNDWATER ELEVATIONS							
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness (feet)	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)	
MW-1	11.20.13	ND	29.34	ND	6190.12	6160.78	
	2.18.14	ND	29.32	ND		6160.80	
	11.11.14	ND	30.14	ND		6159.98	
	6.23.15	ND	30.26	ND		6159.86	
	8.00.15	Monitor well removed to allow soil remediation during August 2015					
MW-2	11.20.13	ND	29.19	ND	6190.18	6160.99	
	2.18.14	ND	29.17	ND		6161.01	
	11.11.14	ND	29.98	ND		6160.20	
	6.23.15	ND	30.11	ND		6160.07	
	8.00.15	Monitor well removed to allow soil remediation during August 2015					
MW-3	11.20.13	ND	29.61	ND	6190.11	6160.50	
	2.18.14	ND	29.59	ND		6160.52	
	11.11.14	ND	30.41	ND		6159.70	
	6.23.15	ND	30.52	ND		6159.59	
	8.00.15	Monitor well removed to allow soil remediation during August 2015					
MW-4	11.20.13	ND	28.67	ND	6189.25	6160.58	
	2.18.14	ND	28.65	ND		6160.60	
	11.11.14	ND	29.49	ND		6159.76	
	6.23.15	ND	29.58	ND		6159.67	
	8.00.15	Monitor well removed to allow soil remediation during August 2015					
MW-5	11.20.13	ND	30.38	ND	6191.06	6160.68	
	2.18.14	ND	30.35	ND		6160.71	
	11.11.14	ND	31.20	ND		6159.86	
	6.23.15	Unable to remove bailer from well					
	8.00.15	Monitor well removed to allow soil remediation during August 2015					
MW-1A	12.13.16	ND	30.84	ND	6190.15	6159.31	
	3.28.17	ND	30.44	ND		6159.71	
	7.03.17	ND	30.82	ND		6159.33	
	10.23.17	ND	30.59	ND		6159.56	
	12.14.17	ND	30.50	ND		6159.65	
	4.17.18*	ND	Errant Gauge	ND		Errant Gauge	
	6.19.18	ND	31.08	ND		6159.07	
	9.14.18	ND	31.38	ND		6158.77	
	12.12.18	ND	31.42	ND		6158.73	
MW-2A	12.13.16	ND	30.44	ND	6190.25	6159.81	
	3.28.17	ND	30.03	ND		6160.22	
	7.03.17	ND	30.39	ND		6159.86	
	10.23.17	ND	30.16	ND		6160.09	
	12.14.17	ND	30.05	ND		6160.20	
	4.17.18	ND	30.27	ND		6159.98	
	6.19.18	ND	30.63	ND		6159.62	
	9.14.18	ND	30.93	ND		6159.32	
	12.12.18	ND	30.97	ND		6159.28	
MW-3A	12.13.16	ND	31.64	ND	6191.49	6159.85	
	3.28.17	ND	31.25	ND		6160.24	
	7.03.17	ND	31.63	ND		6159.86	
	10.23.17	ND	31.40	ND		6160.09	
	12.14.17	ND	31.27	ND		6160.22	
	4.17.18	ND	31.52	ND		6159.97	
	6.19.18	ND	31.88	ND		6159.61	
	9.14.18	ND	32.18	ND		6159.31	
	12.12.18	ND	32.22	ND		6159.27	



<b>TABLE 2</b> <b>Lateral K-7 September 2012 Pipeline Release</b> <b>GROUNDWATER ELEVATIONS</b>						
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness (feet)	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-4A	12.13.16	ND	31.63	ND	6191.72	6160.09
	3.28.17	ND	31.24	ND		6160.48
	7.03.17	ND	31.64	ND		6160.08
	10.23.17	ND	31.41	ND		6160.31
	12.14.17	ND	31.30	ND		6160.42
	4.17.18	ND	31.54	ND		6160.18
	6.19.18	ND	31.90	ND		6159.82
	9.04.18	ND	32.20	ND		6159.52
	12.12.18	ND	32.25	ND		6159.47
MW-5A	12.13.16	ND	29.42	ND	6189.08	6159.66
	3.28.17	ND	29.04	ND		6160.04
	7.03.17	ND	29.42	ND		6159.66
	10.23.17	ND	29.20	ND		6159.88
	12.14.17	ND	29.09	ND		6159.99
	4.17.18	ND	29.32	ND		6159.76
	6.19.18	ND	29.67	ND		6159.41
	9.04.18	ND	29.97	ND		6159.11
	12.12.18	ND	30.02	ND		6159.06
MW-6A	12.13.16	ND	29.79	ND	6189.12	6159.33
	3.28.17	ND	29.40	ND		6159.72
	7.03.17	ND	29.77	ND		6159.35
	10.23.17	ND	29.53	ND		6159.59
	12.14.17	ND	29.44	ND		6159.68
	4.17.18	ND	29.69	ND		6159.43
	6.19.18	ND	30.03	ND		6159.09
	9.14.18	ND	30.33	ND		6158.79
	12.12.18	ND	30.37	ND		6158.75

BTOC - below top of casing

TOC - top of casing

AMSL - above mean sea level

ND - Not Detected

\* - Aberrant Gauging Data



## APPENDIX C

### Laboratory Analytical Reports & Chain-of-Custody Documentation





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 23, 2018

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: K 7 2012

OrderNo.: 1804928

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/18/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-5A

Project: K 7 2012

Collection Date: 4/17/2018 9:45:00 AM

Lab ID: 1804928-001

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	4/19/2018 3:04:06 PM	W50701
Toluene	ND	1.0		µg/L	1	4/19/2018 3:04:06 PM	W50701
Ethylbenzene	ND	1.0		µg/L	1	4/19/2018 3:04:06 PM	W50701
Xylenes, Total	ND	1.5		µg/L	1	4/19/2018 3:04:06 PM	W50701
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	4/19/2018 3:04:06 PM	W50701
Surr: Toluene-d8	102	70-130		%Rec	1	4/19/2018 3:04:06 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-6A

Project: K 7 2012

Collection Date: 4/17/2018 10:10:00 AM

Lab ID: 1804928-002

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	4/19/2018 4:13:32 PM	W50701
Toluene	ND	1.0		µg/L	1	4/19/2018 4:13:32 PM	W50701
Ethylbenzene	ND	1.0		µg/L	1	4/19/2018 4:13:32 PM	W50701
Xylenes, Total	ND	1.5		µg/L	1	4/19/2018 4:13:32 PM	W50701
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	4/19/2018 4:13:32 PM	W50701
Surr: Toluene-d8	101	70-130		%Rec	1	4/19/2018 4:13:32 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-1A

Project: K 7 2012

Collection Date: 4/17/2018 10:35:00 AM

Lab ID: 1804928-003

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	4/19/2018 4:36:41 PM	W50701
Toluene	ND	1.0		µg/L	1	4/19/2018 4:36:41 PM	W50701
Ethylbenzene	ND	1.0		µg/L	1	4/19/2018 4:36:41 PM	W50701
Xylenes, Total	ND	1.5		µg/L	1	4/19/2018 4:36:41 PM	W50701
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	4/19/2018 4:36:41 PM	W50701
Surr: Toluene-d8	102	70-130		%Rec	1	4/19/2018 4:36:41 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

## Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-3A

Project: K 7 2012

Collection Date: 4/17/2018 11:00:00 AM

Lab ID: 1804928-004

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	2.0	D	µg/L	2	4/19/2018 4:59:49 PM	W50701
Toluene	ND	2.0	D	µg/L	2	4/19/2018 4:59:49 PM	W50701
Ethylbenzene	ND	2.0	D	µg/L	2	4/19/2018 4:59:49 PM	W50701
Xylenes, Total	ND	3.0	D	µg/L	2	4/19/2018 4:59:49 PM	W50701
Surr: 4-Bromofluorobenzene	117	70-130	D	%Rec	2	4/19/2018 4:59:49 PM	W50701
Surr: Toluene-d8	100	70-130	D	%Rec	2	4/19/2018 4:59:49 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-4A

Project: K 7 2012

Collection Date: 4/17/2018 11:25:00 AM

Lab ID: 1804928-005

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG	
Benzene	ND	1.0		µg/L	1	4/19/2018 5:22:59 PM	W50701
Toluene	ND	1.0		µg/L	1	4/19/2018 5:22:59 PM	W50701
Ethylbenzene	ND	1.0		µg/L	1	4/19/2018 5:22:59 PM	W50701
Xylenes, Total	ND	1.5		µg/L	1	4/19/2018 5:22:59 PM	W50701
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	4/19/2018 5:22:59 PM	W50701
Surr: Toluene-d8	98.2	70-130		%Rec	1	4/19/2018 5:22:59 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	



## Analytical Report

Lab Order 1804928

Date Reported: 4/23/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-2A

Project: K 7 2012

Collection Date: 4/17/2018 11:50:00 AM

Lab ID: 1804928-006

Matrix: AQUEOUS

Received Date: 4/18/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	5.0	D	µg/L	5	4/19/2018 5:46:09 PM	W50701
Toluene	ND	5.0	D	µg/L	5	4/19/2018 5:46:09 PM	W50701
Ethylbenzene	ND	5.0	D	µg/L	5	4/19/2018 5:46:09 PM	W50701
Xylenes, Total	ND	7.5	D	µg/L	5	4/19/2018 5:46:09 PM	W50701
Surr: 4-Bromofluorobenzene	112	70-130	D	%Rec	5	4/19/2018 5:46:09 PM	W50701
Surr: Toluene-d8	102	70-130	D	%Rec	5	4/19/2018 5:46:09 PM	W50701

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1804928

23-Apr-18

Client: APEX TITAN

Project: K 7 2012

Sample ID	100ng lcs	SampType: LCS4			TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID: W50701			RunNo: 50701					
Prep Date:		Analysis Date: 4/19/2018			SeqNo: 1644716		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	80	120			
Toluene	20	1.0	20.00	0	99.3	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	59	1.5	60.00	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	1804928-001ams		SampType: MS4		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	MW-5A		Batch ID: W50701		RunNo: 50701					
Prep Date:			Analysis Date: 4/19/2018		SeqNo: 1644718		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	20	1.0	20.00	0.07760	99.1	80	120			
Ethylbenzene	20	1.0	20.00	0.1376	99.9	80	120			
Xylenes, Total	60	1.5	60.00	0.4770	98.8	80	120			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.7	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID	1804928-001amsd		SampType: MSD4		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	MW-5A		Batch ID: W50701		RunNo: 50701					
Prep Date:			Analysis Date: 4/19/2018		SeqNo: 1644719		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.5	80	120	9.92	20	
Toluene	20	1.0	20.00	0.07760	99.5	80	120	0.313	20	
Ethylbenzene	20	1.0	20.00	0.1376	97.6	80	120	2.38	20	
Xylenes, Total	58	1.5	60.00	0.4770	96.4	80	120	2.44	20	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	70	130	0	0	
Surr: Toluene-d8	10		10.00		102	70	130	0	0	

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID: W50701			RunNo: 50701					
Prep Date:		Analysis Date: 4/19/2018			SeqNo: 1644725		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804928

23-Apr-18

Client: APEX TITAN

Project: K 7 2012

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	W50701	RunNo:	50701					
Prep Date:		Analysis Date:	4/19/2018	SeqNo:	1644725	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	12		10.00		119	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 8 of 8
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1804928

RcptNo: 1

Received By: Anne Thorne

4/18/2018 7:00:00 AM

Completed By: Anne Thorne

4/18/2018 8:04:19 AM

Reviewed By: ENM

4/18/18

mw 4/18/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:  
mw 4/18/18  
adjusted? ☒  $<2$  or  $>12$  unless noted)

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

CUSTODY SEALS INTACT ON VOA VIALS/at 4/18/18

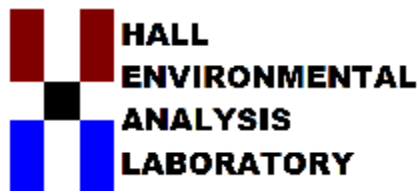
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

## CHAIN OF CUSTODY RECORD

APEX		Office Location		Laboratory:		ANALYSIS REQUESTED		Lab use only	
606 S Rio Grande		606 S Rio Grande		Hett Environmental				Due Date:	
Suite A		Suite A		Lab				Temp. of coolers when received (C°):	
Aztec NM 87410		Aztec NM 87410		Albuquerque NM 87109				1 2 3 4 5	
Project Manager K. Summers		Project Manager K. Summers		Contact: A. Freeman				Page 1 of 1	
PO/ISO #:		PO/ISO #:		Phone: 505-345-3975					
Sampler's Name		Sampler's Signature							
C. D. Aponte									
Proj. No.		Project Name		No. Type of Containers					
P5040112287		K-7 (2012)							
Matrix	Date	Time	Identifying Marks of Sample(s)	Start	Depth	End	Depth	VOA	No. Type of Containers
W	4/17/18	945	MW-5A					3	
W	4/17/18	1010	MW-6A					3	
W	4/17/18	1035	MW-1A					3	
W	4/17/18	1100	MW-3A					3	
W	4/17/18	1125	MW-4A					3	
W	4/17/18	1150	MW-2A					3	
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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 25, 2018

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Suite A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: Lateral K-7 2012

OrderNo.: 1806B85

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/20/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-3A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 8:35:00 AM

Lab ID: 1806B85-001

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	6/21/2018 10:17:58 AM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 10:17:58 AM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 10:17:58 AM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 10:17:58 AM	R52146
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	6/21/2018 10:17:58 AM	R52146
Surr: Toluene-d8	104	70-130		%Rec	1	6/21/2018 10:17:58 AM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-4A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 9:30:00 AM

Lab ID: 1806B85-002

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	6/21/2018 11:27:18 AM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 11:27:18 AM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 11:27:18 AM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 11:27:18 AM	R52146
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	6/21/2018 11:27:18 AM	R52146
Surr: Toluene-d8	106	70-130		%Rec	1	6/21/2018 11:27:18 AM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-2A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 10:25:00 AM

Lab ID: 1806B85-003

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG	
Benzene	ND	1.0		µg/L	1	6/21/2018 11:50:24 AM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 11:50:24 AM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 11:50:24 AM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 11:50:24 AM	R52146
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/21/2018 11:50:24 AM	R52146
Surr: Toluene-d8	100	70-130		%Rec	1	6/21/2018 11:50:24 AM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-1A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 11:20:00 AM

Lab ID: 1806B85-004

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	6/21/2018 12:13:28 PM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 12:13:28 PM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 12:13:28 PM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 12:13:28 PM	R52146
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	6/21/2018 12:13:28 PM	R52146
Surr: Toluene-d8	105	70-130		%Rec	1	6/21/2018 12:13:28 PM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-5A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 12:15:00 PM

Lab ID: 1806B85-005

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	6/21/2018 12:36:47 PM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 12:36:47 PM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 12:36:47 PM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 12:36:47 PM	R52146
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	6/21/2018 12:36:47 PM	R52146
Surr: Toluene-d8	104	70-130		%Rec	1	6/21/2018 12:36:47 PM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1806B85

Date Reported: 6/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-6A

Project: Lateral K-7 2012

Collection Date: 6/19/2018 1:10:00 PM

Lab ID: 1806B85-006

Matrix: AQUEOUS

Received Date: 6/20/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	1.0		µg/L	1	6/21/2018 12:59:53 PM	R52146
Toluene	ND	1.0		µg/L	1	6/21/2018 12:59:53 PM	R52146
Ethylbenzene	ND	1.0		µg/L	1	6/21/2018 12:59:53 PM	R52146
Xylenes, Total	ND	1.5		µg/L	1	6/21/2018 12:59:53 PM	R52146
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	6/21/2018 12:59:53 PM	R52146
Surr: Toluene-d8	101	70-130		%Rec	1	6/21/2018 12:59:53 PM	R52146

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1806B85****25-Jun-18**

**Client:** APEX TITAN  
**Project:** Lateral K-7 2012

Sample ID <b>100ng btex lcs</b>	SampType: <b>LCS4</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R52146</b>			RunNo: <b>52146</b>						
Prep Date:	Analysis Date: <b>6/21/2018</b>			SeqNo: <b>1707858</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	107	80	120			
Xylenes, Total	62	1.5	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Toluene-d8	9.9		10.00		99.4	70	130			

Sample ID <b>1806b85-001ams</b>	SampType: <b>MS4</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>MW-3A</b>	Batch ID: <b>R52146</b>			RunNo: <b>52146</b>						
Prep Date:	Analysis Date: <b>6/21/2018</b>			SeqNo: <b>1707860</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	64	1.5	60.00	0	106	80	120			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID <b>1806b85-001amsd</b>	SampType: <b>MSD4</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>MW-3A</b>	Batch ID: <b>R52146</b>			RunNo: <b>52146</b>						
Prep Date:	Analysis Date: <b>6/21/2018</b>			SeqNo: <b>1707861</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	80	120	4.43	20	
Toluene	21	1.0	20.00	0	105	80	120	0.992	20	
Ethylbenzene	20	1.0	20.00	0	102	80	120	5.69	20	
Xylenes, Total	60	1.5	60.00	0	100	80	120	5.57	20	
Surr: 4-Bromofluorobenzene	9.5		10.00		95.5	70	130	0	0	
Surr: Toluene-d8	10		10.00		101	70	130	0	0	

Sample ID <b>rb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R52146</b>			RunNo: <b>52146</b>						
Prep Date:	Analysis Date: <b>6/21/2018</b>			SeqNo: <b>1707874</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

Page 7 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B85

25-Jun-18

Client: APEX TITAN

Project: Lateral K-7 2012

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R52146	RunNo:	52146					
Prep Date:		Analysis Date:	6/21/2018	SeqNo:	1707874	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 8 of 8
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1806B85

RcptNo: 1

Received By: Isaiah Ortiz

6/20/2018 7:15:00 AM

I O

Completed By: Isaiah Ortiz

6/20/2018 8:14:38 AM

I O

Reviewed By: ENM

6/20/2018

LB: MW 6/20/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>2$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


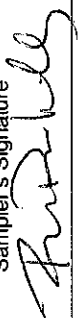
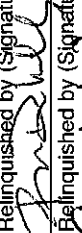





Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b>		<b>Office Location</b> 606 S Rio Grande Suite A Aztec, NM 87410 Project Manager <u>K. Summers</u>		<b>Laboratory:</b> <u>Hall Environmental Analysis Laboratory</u> <b>Address:</b> <u>4401 Hawkins NE</u> <u>Albuquerque, NM 87104</u> <b>Contact:</b> <u>A. Freeman</u> <b>Phone:</b> <u>505-345-3475</u> <b>PO/ISO #:</b> <u>725040112 287</u>		<b>ANALYSIS REQUESTED</b> <u>BTEX 8001</u>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.4</u> 1 X 2 3 4 5 Page <u>1</u> of <u>1</u>			
<b>Sampler's Name</b> <u>Ranee Deechilly</u>		<b>Sampler's Signature</b> 		<b>Project Name</b> <u>Lateral K-7 2012</u>		<b>No/Type of Containers</b>		<b>Lab Sample ID (Lab Use Only)</b>			
Proj. No.	Matrix	Date	Time	Identifying Marks of Sample(s)	Depth	Depth	VOA	250 ml	Glass Jar	P/O	
725040112287	W	6/19/18	835	MW-3A			3				
	W	6/19/18	930	MW-4A			3				
	W	6/19/18	1025	MW-2A			3				
	W	6/19/18	1120	MW-1A			3				
	W	6/19/18	1215	MW-5A			3				
	W	6/19/18	1310	MW-6A			3				
<u>10/5</u>											
<b>Turn around time</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush		<b>Relinquished by (Signature)</b> 		<b>Date:</b> <u>6/19/18</u> <b>Time:</b> <u>1526</u>		<b>Received by (Signature)</b> <u>Shant Vach</u>		<b>Date:</b> <u>6/19/18</u> <b>Time:</b> <u>1526</u>		<b>NOTES:</b> <u>Bill to Apex</u> <u>Corporate rate</u>	
<b>Relinquished by (Signature)</b> 		<b>Date:</b> <u>6/19/18</u> <b>Time:</b> <u>1810</u>		<b>Received by (Signature)</b> <u>Shant Vach</u>		<b>Date:</b> <u>6/20/18</u> <b>Time:</b> <u>07:15</u>		<b>Relinquished by (Signature)</b> 		<b>Date:</b> _____ <b>Time:</b> _____	
<b>Relinquished by (Signature)</b> 		<b>Date:</b> _____ <b>Time:</b> _____		<b>Received by (Signature)</b> 		<b>Date:</b> _____ <b>Time:</b> _____		<b>Relinquished by (Signature)</b> 		<b>Date:</b> _____ <b>Time:</b> _____	
<b>Matrix</b> WW - Wastewater VOA - 40 ml vial		<b>W - Water</b> A/G - Amber / Or Glass 1 Liter		<b>S - Soil</b> SD - Solid		<b>L - Liquid</b> 250 ml - Glass wide mouth		<b>A - Air Bag</b> C - Charcoal tube P/O - Plastic or other		<b>SL - sludge</b> <b>O - Oil</b>	



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

September 21, 2018

Kyle Summers  
Apex Titan, Inc.  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (214) 350-5469  
FAX (214) 350-2914

RE: Lateral K 7 2012

OrderNo.: 1809926

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/15/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: MW-3A

Project: Lateral K 7 2012

Collection Date: 9/14/2018 9:40:00 AM

Lab ID: 1809926-001

Matrix: AQUEOUS

Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 1:14:01 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 1:14:01 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 1:14:01 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 1:14:01 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	9/20/2018 1:14:01 PM
Surr: Toluene-d8	98.7	70-130		%Rec	1	9/20/2018 1:14:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	



Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: MW-4A

Project: Lateral K 7 2012

Collection Date: 9/14/2018 10:35:00 AM

Lab ID: 1809926-002

Matrix: AQUEOUS

Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 1:37:06 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 1:37:06 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 1:37:06 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 1:37:06 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	9/20/2018 1:37:06 PM
Surr: Toluene-d8	100	70-130		%Rec	1	9/20/2018 1:37:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: MW-2A

Project: Lateral K 7 2012

Collection Date: 9/14/2018 11:25:00 AM

Lab ID: 1809926-003

Matrix: AQUEOUS

Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 2:00:11 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 2:00:11 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 2:00:11 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 2:00:11 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/20/2018 2:00:11 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/20/2018 2:00:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

## Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: MW-1A

Project: Lateral K 7 2012

Collection Date: 9/14/2018 12:05:00 PM

Lab ID: 1809926-004

Matrix: AQUEOUS

Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 2:23:14 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 2:23:14 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 2:23:14 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 2:23:14 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/20/2018 2:23:14 PM
Surr: Toluene-d8	99.1	70-130		%Rec	1	9/20/2018 2:23:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-5A  
Project: Lateral K 7 2012 Collection Date: 9/14/2018 12:50:00 PM  
Lab ID: 1809926-005 Matrix: AQUEOUS Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 2:46:23 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 2:46:23 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 2:46:23 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 2:46:23 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/20/2018 2:46:23 PM
Surr: Toluene-d8	99.6	70-130		%Rec	1	9/20/2018 2:46:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1809926

Date Reported: 9/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-6A  
Project: Lateral K 7 2012 Collection Date: 9/14/2018 1:35:00 PM  
Lab ID: 1809926-006 Matrix: AQUEOUS Received Date: 9/15/2018 10:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: AG
Benzene	ND	1.0		µg/L	1	9/20/2018 3:09:19 PM
Toluene	ND	1.0		µg/L	1	9/20/2018 3:09:19 PM
Ethylbenzene	ND	1.0		µg/L	1	9/20/2018 3:09:19 PM
Xylenes, Total	ND	1.5		µg/L	1	9/20/2018 3:09:19 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/20/2018 3:09:19 PM
Surr: Toluene-d8	98.2	70-130		%Rec	1	9/20/2018 3:09:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1809926

21-Sep-18

**Client:** Apex Titan, Inc.**Project:** Lateral K 7 2012

Sample ID	100ng btex lcs		SampType: LCS4		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC		Batch ID: A54305		RunNo: 54305					
Prep Date:			Analysis Date: 9/20/2018		SeqNo: 1797474		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.6	80	120			
Toluene	19	1.0	20.00	0	93.0	80	120			
Ethylbenzene	18	1.0	20.00	0	91.3	80	120			
Xylenes, Total	56	1.5	60.00	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID	1809926-001ams	SampType: MS4		TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	MW-3A	Batch ID: A54305		RunNo: 54305						
Prep Date:		Analysis Date: 9/20/2018		SeqNo: 1797476		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	80	120			
Toluene	22	1.0	20.00	0	109	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	65	1.5	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	1809926-001amsd		SampType: MSD4		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	MW-3A		Batch ID: A54305		RunNo: 54305					
Prep Date:			Analysis Date: 9/20/2018		SeqNo: 1797477		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120	5.17	20	
Toluene	21	1.0	20.00	0	107	80	120	2.27	20	
Ethylbenzene	21	1.0	20.00	0	104	80	120	4.16	20	
Xylenes, Total	63	1.5	60.00	0	105	80	120	3.92	20	
Surr: 4-Bromofluorobenzene	9.2		10.00		91.8	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		98.9	70	130	0	0	

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID: A54305			RunNo: 54305					
Prep Date:		Analysis Date: 9/20/2018			SeqNo: 1797483		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 7 of 8



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1809926  
21-Sep-18

Client: Apex Titan, Inc.  
Project: Lateral K 7 2012

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	A54305	RunNo:	54305					
Prep Date:		Analysis Date:	9/20/2018	SeqNo:	1797483	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 8 of 8
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4101  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX Titan

Work Order Number: 1809926

RcptNo: 1

Received By: Isaiah Ortiz

9/15/2018 10:20:00 AM

IC

Completed By: Ashley Gallegos

9/17/2018 12:23:18 PM

AG

Reviewed By:

JAB 09/19/18

Labeled by: mg 09/19

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

[illegible]

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

December 17, 2018

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Suite A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: Lateral K-7 (2012)

OrderNo.: 1812714

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/13/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-3A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 9:30:00 AM

Lab ID: 1812714-001

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 12:41:48 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 12:41:48 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 12:41:48 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 12:41:48 PM	R56354
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	12/14/2018 12:41:48 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-4A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 10:25:00 AM

Lab ID: 1812714-002

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 4:51:11 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 4:51:11 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 4:51:11 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 4:51:11 PM	R56354
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	12/14/2018 4:51:11 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-2A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 11:15:00 AM

Lab ID: 1812714-003

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 5:13:38 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 5:13:38 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 5:13:38 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 5:13:38 PM	R56354
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/14/2018 5:13:38 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	



Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-1A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 12:10:00 PM

Lab ID: 1812714-004

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 5:36:24 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 5:36:24 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 5:36:24 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 5:36:24 PM	R56354
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/14/2018 5:36:24 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-5A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 12:55:00 PM

Lab ID: 1812714-005

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 5:59:07 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 5:59:07 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 5:59:07 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 5:59:07 PM	R56354
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/14/2018 5:59:07 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1812714

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: MW-6A

Project: Lateral K-7 (2012)

Collection Date: 12/12/2018 1:40:00 PM

Lab ID: 1812714-006

Matrix: AQUEOUS

Received Date: 12/13/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2018 6:21:50 PM	R56354
Toluene	ND	1.0		µg/L	1	12/14/2018 6:21:50 PM	R56354
Ethylbenzene	ND	1.0		µg/L	1	12/14/2018 6:21:50 PM	R56354
Xylenes, Total	ND	2.0		µg/L	1	12/14/2018 6:21:50 PM	R56354
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/14/2018 6:21:50 PM	R56354

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812714  
17-Dec-18

Client: APEX TITAN  
Project: Lateral K-7 (2012)

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID: R56354			RunNo: 56354					
Prep Date:		Analysis Date: 12/14/2018			SeqNo: 1884513	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	26		20.00		130	80	120			S

Sample ID	100NG BTEX LCS	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID: R56354			RunNo: 56354					
Prep Date:		Analysis Date: 12/14/2018			SeqNo: 1884514	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.4	80	120			
Toluene	19	1.0	20.00	0	96.4	80	120			
Ethylbenzene	20	1.0	20.00	0	99.1	80	120			
Xylenes, Total	60	2.0	60.00	0	100	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 7



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1812714

RcptNo: 1

Received By: Anne Thorne 12/13/2018 7:50:00 AM

Completed By: Isalah Ortiz 12/13/2018 7:57:56 AM

Reviewed By:

LB: JAR 12/13/18  
JU 12.13.18

*Am Th*  
*I-0x*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

(\*2 or &gt;12 unless noted)

Adjusted?

Checked by:

*JU*  
*12.13.18*

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:



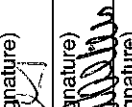
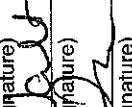
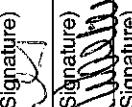
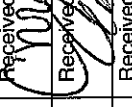
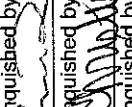
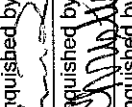
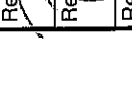
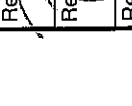
Client Instructions:

16. Additional remarks: MW-3A: 2 vial received broken. x 12.13.18

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location 6006 S. Rio Grande Suite A Aztec, NM 87410 Project Manager K. Summers		Laboratory: Hall Environmental Analysis Laboratory Address: 4901 Hawkins NE Albuquerque, NM 87109 Contact: D. Freeman Phone: 505-345-3975 PO/SO #: 72504012287		ANALYSIS REQUESTED BTEX		Lab use only Due Date: Temp. of coolers when received (C°): 1 2 3 4 5 Page 1 of 1	
Sampler's Name Rane Deechally		Sampler's Signature 		Lab Sample ID (Lab Use Only) 1812714			
Project No. 72504012287		Project Name Lateral K-7 2012		No/Type of Containers			
Matrix	Date	Time	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	P/O
W	12/12/18	930	MW-3A			3	
W	12/12/18	1025	MW-4A			3	
W	12/12/18	1115	MW-2A			3	
W	12/12/18	1210	MW-1A			3	
W	12/12/18	1255	MW-5A			3	
W	12/12/18	1340	MW-6A			3	
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush							
Relinquished by (Signature) 		Date: 12/12/18 Time: 1640		Received by (Signature) 		Date: 12/12/18 Time: 1640	
Relinquished by (Signature) 		Date: 12/12/18 Time: 1821		Received by (Signature) 		Date: 12/13/18 Time: 0756	
Relinquished by (Signature) 		Date: Time: 		Received by (Signature) 		Date: Time: 	
Relinquished by (Signature) 		Date: Time: 		Received by (Signature) 		Date: Time: 	
Matrix Container	WW - Wastewater VOA - 40 ml vial	S - Soil A/G - Amber / Or Glass 1 Liter	SD - Solid 250 ml - Plastic or other	L - Liquid 250 ml - Plastic or other	A - Air Bag Glass wide mouth	C - Charcoal tube P/O - Plastic or other	SL - sludge O - Oil



APPENDIX D

Form C-141



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	
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 (**included in January 21, 2016 Corrective Action Report**)

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: Rodney Sartor Title: Senior Director, Environmental  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
email: rmsartor@eprod.com Telephone: (713) 381-6629

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 329608

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 329608
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The OCD has reviewed both document submissions and determined the request for abatement termination in the "no further action request" to be approved with the following conditions of approval.	12/15/2025
amaxwell	Enterprise will plug and abandon all six (6) monitoring wells within 90 days of receipt of this letter following an approved Office of State Engineering plugging plan.	12/15/2025
amaxwell	Enterprise will submit a Plugging report detailing the plugging operations to the OCD within 120 days of receipt of this letter.	12/15/2025
amaxwell	Enterprise will submit a completed Reclamation report pursuant to 19.15.29.13 NMAC within 180 days of receipt of this letter	12/15/2025