

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	NCH1903862333
District RP	1RP-5350
Facility ID	
Application ID	pCH1903862671

Release Notification

Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa, LLC	OGRID: 372417
Contact Name: David Harwell	Contact Telephone: 832-672-4604
Contact email: DHarwell@advanceenergypartners.com	Incident # NCH1903862333 AO 6 501H @ 30-025-45026
Contact mailing address: 11490 Westheimer Rd. STE 950, Houston, TX 77077	

Location of Release Source

Latitude N 32.41557 _____ Longitude W 103.60359 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: AO 6 501H	Site Type: Well Site
Date Release Discovered: Feb. 6, 2019 (9:00)	API# 30-025-45026

Unit Letter	Section	Township	Range	County
P	6	22 S.	33 E.	Lea County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 220	Volume Recovered (bbls) 200
Treated PW	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

During flowback operations a valve on frac was left open by a vacuum truck driver. Water was later transferred into the tank and leaked from open valve. Water was found on location. Valve was closed on frac tank and water on location was immediately withdrawn by vac truck. 200 bbls were recovered.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25 bbls of produced water.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email at 8:30 2/7/2019 Email to NMOCD christina.hernandez@state.nm.us , Bradford.Billings@state.nm.us SLO rman@slo.state.nm.us	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
<p>If all the actions described above have <u>not</u> been undertaken, explain why: The release was in silty sand surface soils. Free standing liquid quickly soaked into the sand. Within 15 hours, removal of surface soils within the upper 2-feet of soil column along the east-west extent of the release was excavated and temporarily stockpiled. Near surface soils along north-south release extent, which is along a buried pipeline, was excavated to a depth of a few inches. A one-call is in progress and excavation of impacted soil will resume within the next few days. [SEE ATTACHED MAP] Release characterization and remediation will occur under NMAC 19.15.29.</p>
<p>Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.</p>
<p>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.</p>
<p>Printed Name: <u>David Harwell</u> Title: <u>Vice President</u> Signature: <u><i>David Harwell</i></u> Date: <u>Feb. 7, 2019</u> email: <u>DHarwell@advanceenergypartners.com</u> Telephone: <u>832-672-4604</u></p>
<p>OCD Only</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>RECEIVED By <i>CHernandez</i> at 5:27 pm, Feb 07, 2019</p> </div> <p>Received by: _____ Date: _____</p>

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release? Plate 2	<u>404</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Plate 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Plate 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? Plate 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? Plate 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Plate 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Plate 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? Plate 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? Plate 7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? Plate 8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? Plate 9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: February 04, 2021

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: _____

Date: _____

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

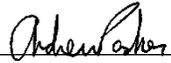
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: February 4, 2021

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____

Date: _____



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

February 4, 2021

RE:

Revised Characterization & Remediation Workplan
Incident ID: nCH1903862333
AEP #: 02062019-0900-dc
Location: AO6 501H

NM Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

NMOCD:

Advance Energy Partners Hat Mesa LLC (Advance Energy) submits this revised characterization report and proposed workplan for the above referenced incident. The original characterization and deferral request was submitted to NMOCD in March 2019. Portions of this revised characterization and remediation workplan was extracted from the March 2019 report.

The release occurred on February 06, 2019 from an open valve on a frac tank. During flowback operations the valve on the frac tank was left open by a vacuum truck driver. Flowback water that was later transferred into the frac tank leaked from the open valve. Flowback water was observed on location. The valve on frac tank was closed and the released water on location was immediately removed by a vac truck. Two-hundred barrels (200 bbls) were recovered. Initial volume of release was estimated at 220 barrels, with a net release of 20 bbls.

The release did not impact surface or groundwater and was contained on the active production pad.

Following the removal of free-standing liquid, the upper 10 to 12 inches of the production pad within the release extent was removed and replaced with clean caliche. The graded area as shown in Figure 1, below, shows the western portion of the release extent that was removed and replaced with clean caliche.

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Figure 1: Graded area shows the western half of the release extent that was removed and replaced with clean caliche. Frac tanks are visible photo left. Photo is viewing south-southeast. GPS: 32.4158530 N, -103.6036710 W. Date/Time: 2019-02-08 09:28:16

4 February 2021

Released to Imaging: 7/16/2021 8:39:14 AM

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AEP #: 02062019-0900-dc

1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 5-9).

1.1. Site Map

Horizontal extent of the release was determined by visual observations the day of the release and mapped using GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the release extent and soil characterization points, and the AO 6 #501H wellhead (API 30-025-45026). The source of the release is located at Lat: 32.415185, Long: -103.603427. Table 2 shows the GPS coordinates of delineation points.

1.2. Depth to Ground Water

Plate 2 shows the depth to ground water reproduced from Open File Report -95¹ published by Geohydrology Associates, Inc for the Bureau of Land Management (BLM). As shown on Plate 2, depth to water is between 400 to 450 feet below ground surface.

Most recent depth to water data was queried from the USGS and New Mexico Office of the State Engineer (OSE) online databases. Spatial analysis shows the nearest water well (OSE Well CP00854) is approximately 2.4 miles northeast with a depth to water of 600 ft (dated 06/22/1996).

Potentiometric surface calculations indicate that the depth to water is approximately 404 feet below ground surface, where 404 feet = 3629 ft surface elevation – 3225 ft potentiometric surface.

Appendix A are the wells logs for nearby wells.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is not:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ½-mile private and domestic water sources (wells and springs).
- Within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes
- Within 1000 feet of any other fresh water well or spring

¹ Collection of hydrologic data Eastside Roswell Range EIS area, New Mexico.
<https://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=95>

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1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is not:

- Within ½ mile of any significant water course.
- Within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

1.5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production pad.

Trench sampling showed the lithology as:

- 0 - 1 ft : Caliche Pad.
- 1 – 4.5 : Silty Sand, medium brown, loose.

The lateral and vertical extent of the release was determined by collecting six (6) soil samples at the perimeter of the release extent and three (3) samples within the release extent (Plate 1).

Table 1 summarizes the analytical results, where

- All samples at the perimeter of the release extent exhibit chloride and hydrocarbon concentrations within the upper 4-feet below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC.
- The three samples within the release extent exhibit TPH, BTEX, and Benzene concentrations within the upper 4-feet below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC.
- Two samples (Trench 01 & HA-07) within the release extent exhibit chloride concentrations greater than 600 mg/kg in the upper 4-feet. The third sample (HA-06), adjacent to a pooling area, exhibits chloride concentrations below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC.
- All three samples within the release extent exhibit chloride concentrations at 4.5-feet below ground surface below Table 1 of 19.15.29 NMAC closure criteria where depth to water is greater than 100 ft.

Laboratory Certificate of Analysis is located in Appendix B.

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2. Remediation Workplan

Characterization sampling identifies chloride as the constituent of concern. Therefore, we will excavate the release extent where field electrical conductivity (EC) readings are <0.20 mS/cm, or to a depth of 4.1-feet if EC readings are >0.20 mS/cm. An EC <0.20 mS/cm correlates with a chloride concentration <600 mg/kg ($R^2=0.957$). If base confirmation samples exceed Table 1 of 19.15.29 NMAC Closure Criteria at 4.1-feet bgs where depth to water is > 100 ft, we will submit a revised remediation workplan or continue to excavate until constituents are below closure criteria.

A 5-point composite confirmation base sample will be collected from each sample grid for confirmation sampling. Five-point composite sample points will be evenly spaced within each sample grid to obtain a representative sample of base grid area (Figure 2, below). Each discrete sample point that comprises the five-point composite will be representative of 200 square feet.

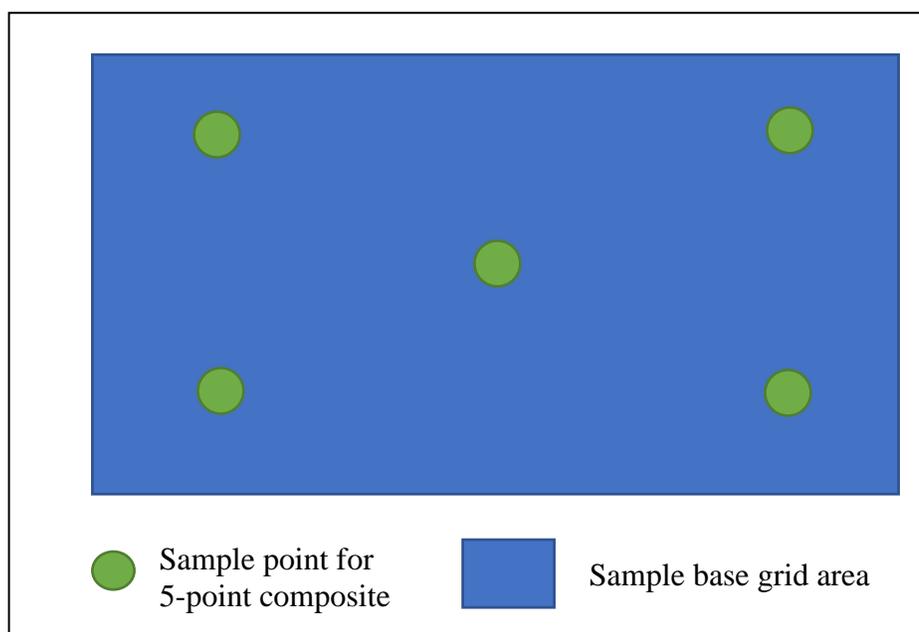


Figure 2: Example of 5-point sample grid for base composite sampling.

Plate 10 shows the proposed base sample grid for confirmation sampling. Each sample grid shall not exceed 1,000 square feet; with an average sample grid area of 954 square feet.

Five-point composite soil samples will be collected along the walls of the excavation extent. Sample points for the composite wall sample will be evenly distributed along the wall to obtain a representative 5-point composite sample not to represent an area greater than 200 sq. ft. Samples will be collected from the surface to 4-feet or excavation base depth, whichever is less.

Base and wall samples will be analyzed for chloride, TPH, BTEX, and Benzene.

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Estimated volume of soil to be remediated is 2,000 cubic feet. Remediation will begin within 60-days of remediation workplan approval.

Please contact me with any questions at 970-570-9535.

Sincerely,
Advance Energy Partners Hat Mesa, LLC



Andrew Parker
Env. Scientist

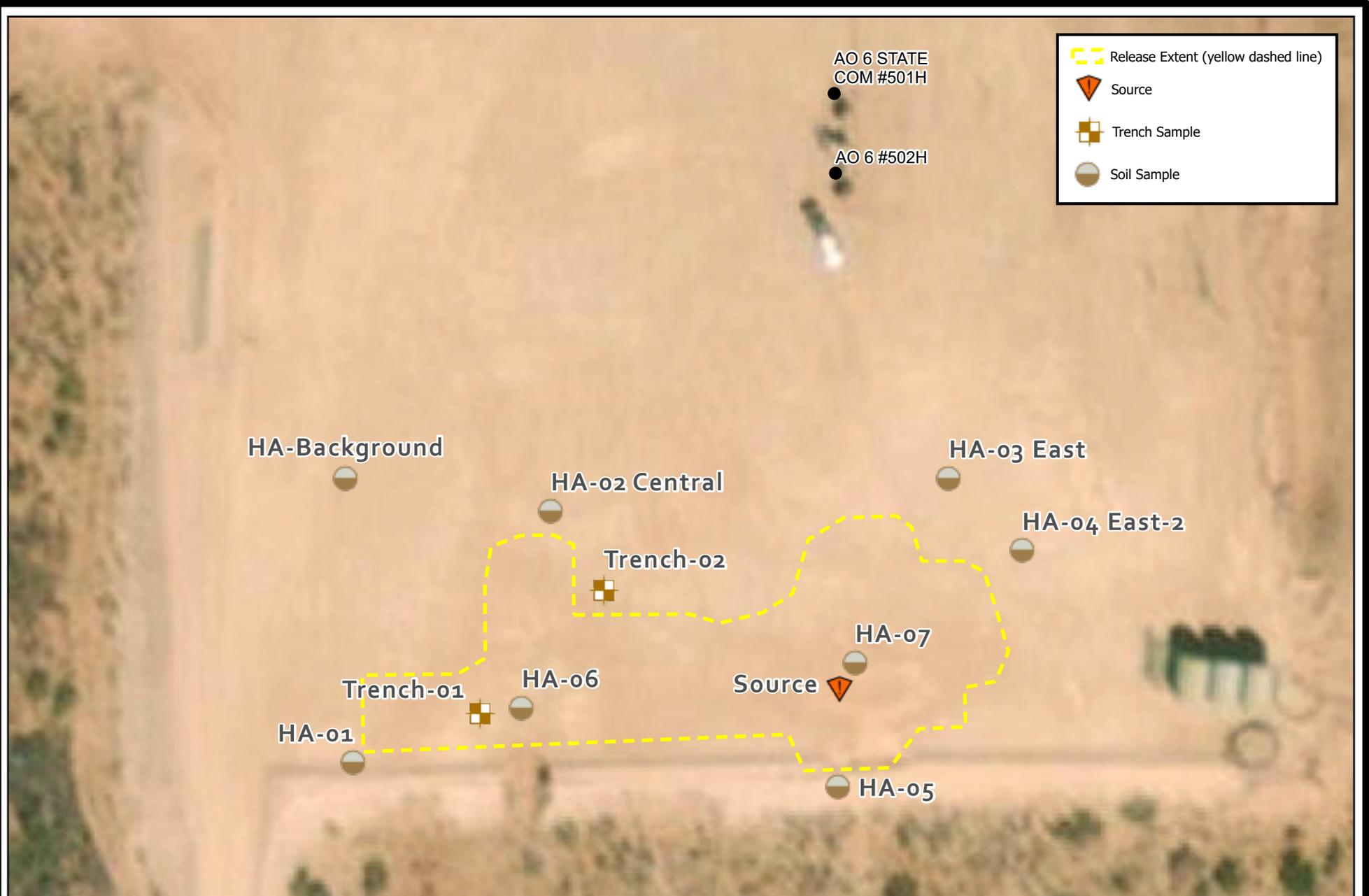
Copy: Braden Harris; Advance Energy Partners Hat Mesa, LLC
Ryan Mann; New Mexico State Land Office

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Plates



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- Release Extent (yellow dashed line)
- Source
- Trench Sample
- Soil Sample



0 25 50
US Feet



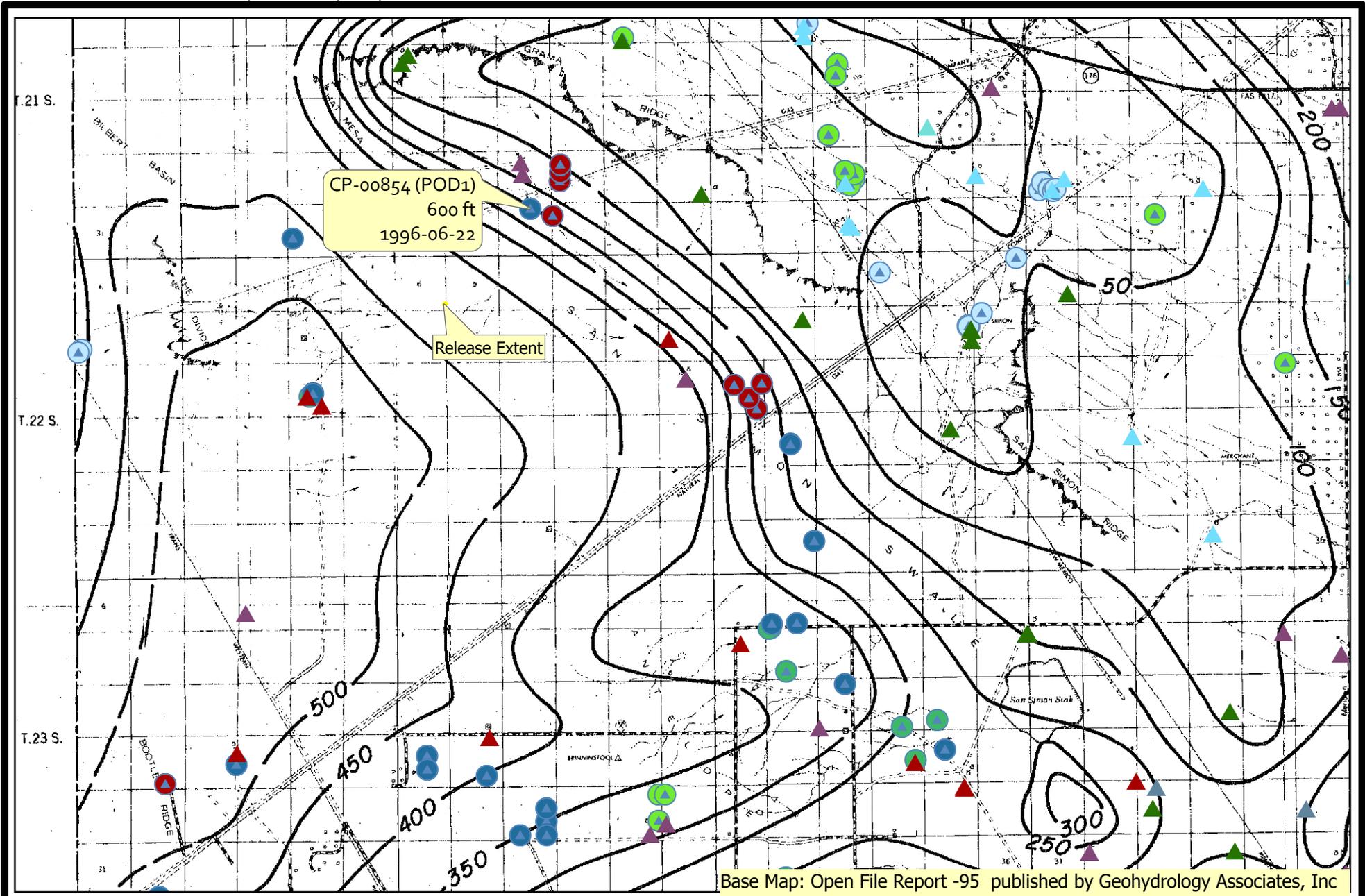
Site Map

Plate 01

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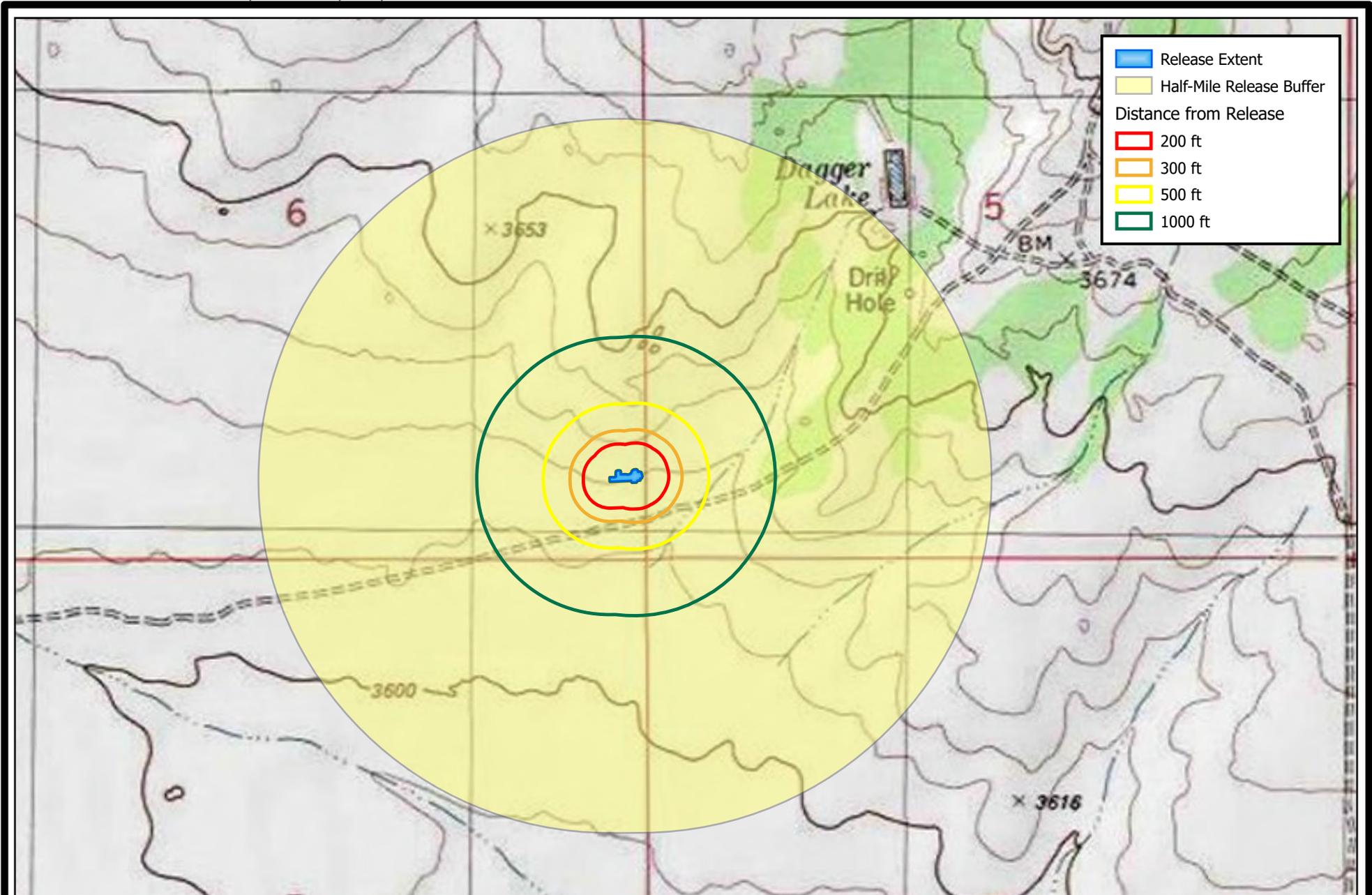
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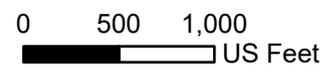
Depth To Water
Incident #: nCH1903862333
AEP#: 02062019-0900-dc

Plate 02
01/05/2021

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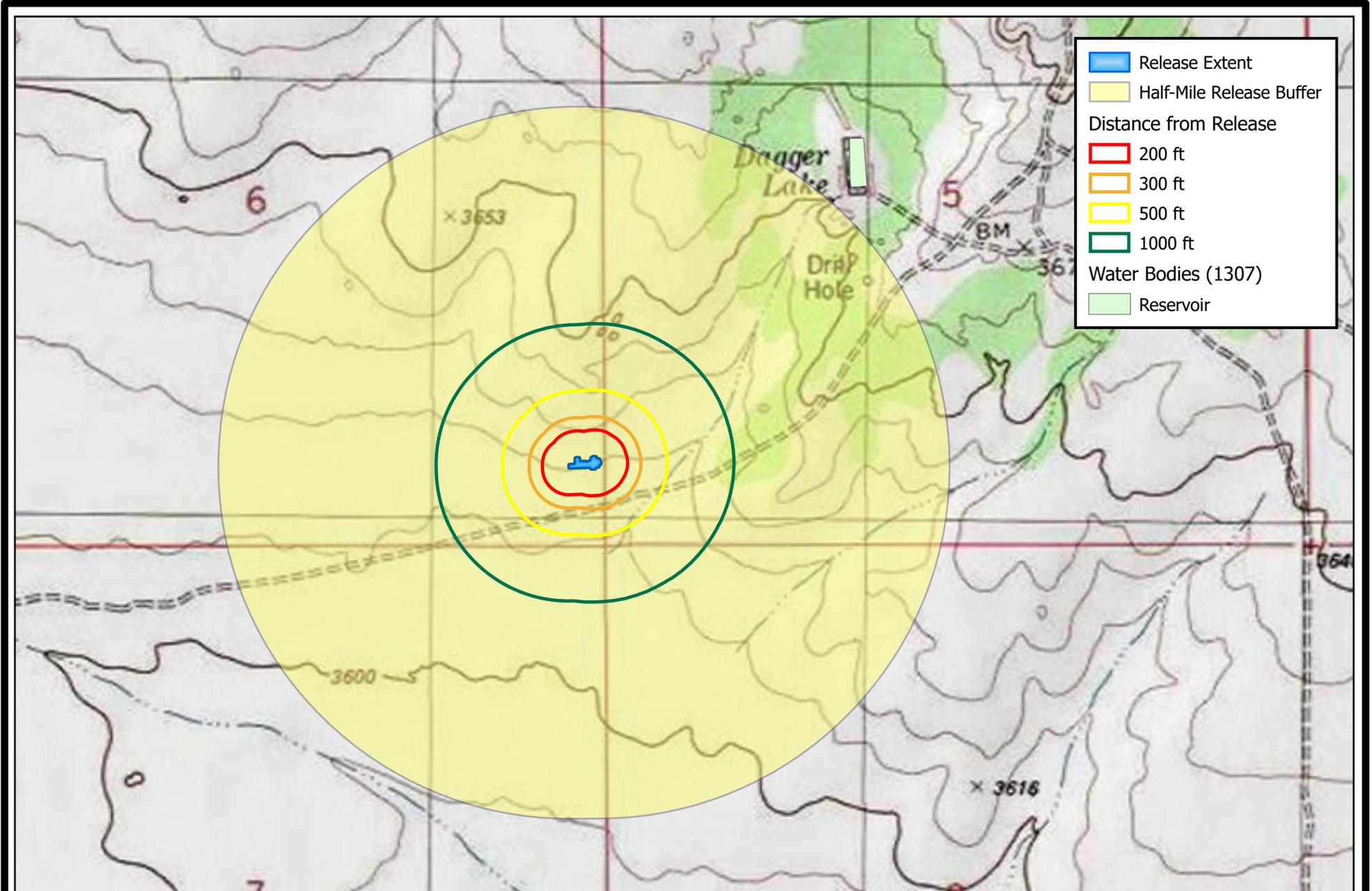
	Release Extent
	Half-Mile Release Buffer
Distance from Release	
	200 ft
	300 ft
	500 ft
	1000 ft



Wellhead Protection
Incident #: nCH1903862333
AEP#: 02062019-0900-dc

Plate 03
01/05/2021

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0 500 1,000
US Feet



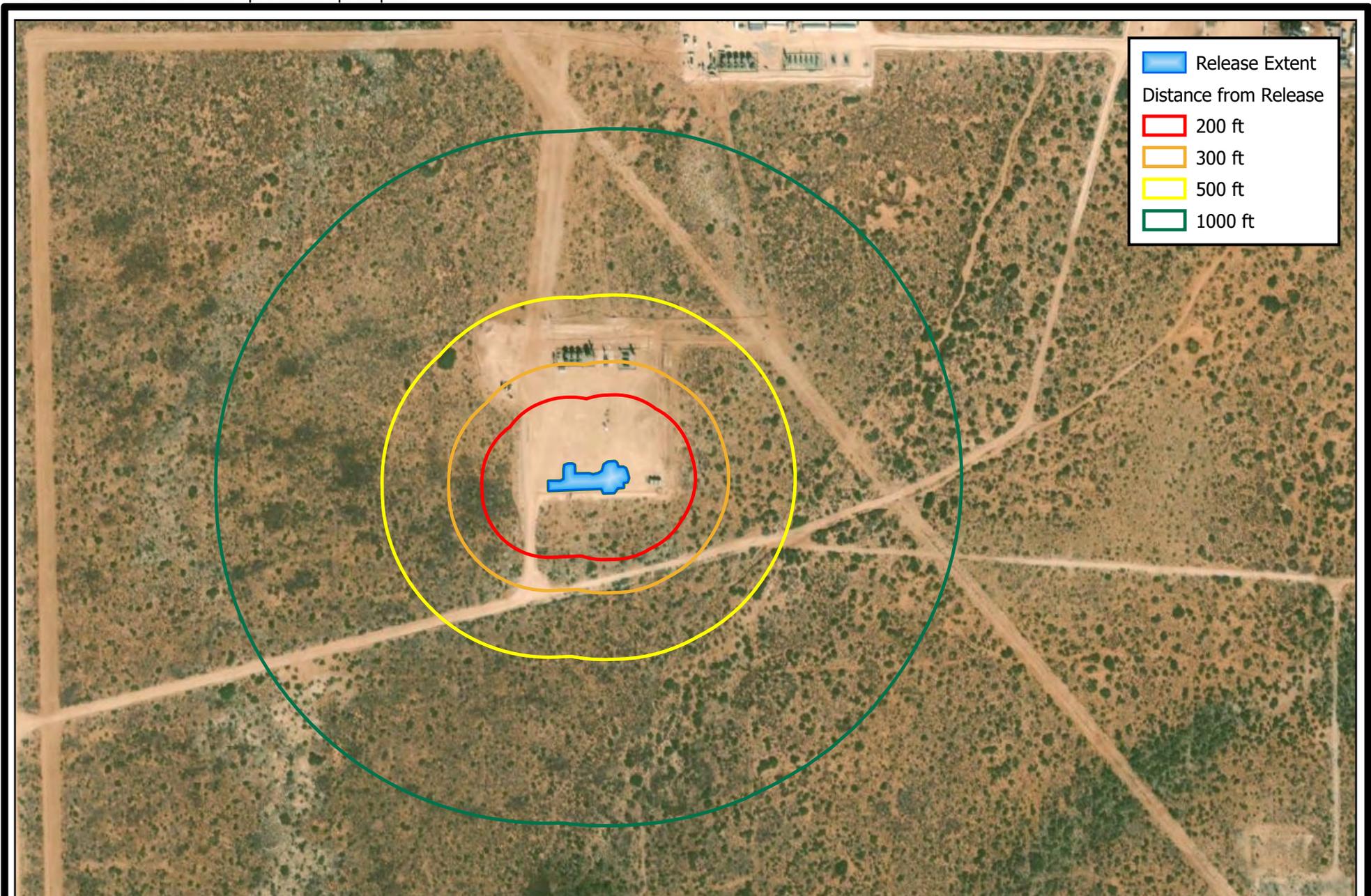
Nearby Watercourses

Plate 04

Incident #: nCH1903862333
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01/05/2021

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	Release Extent
Distance from Release	
	200 ft
	300 ft
	500 ft
	1000 ft

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S

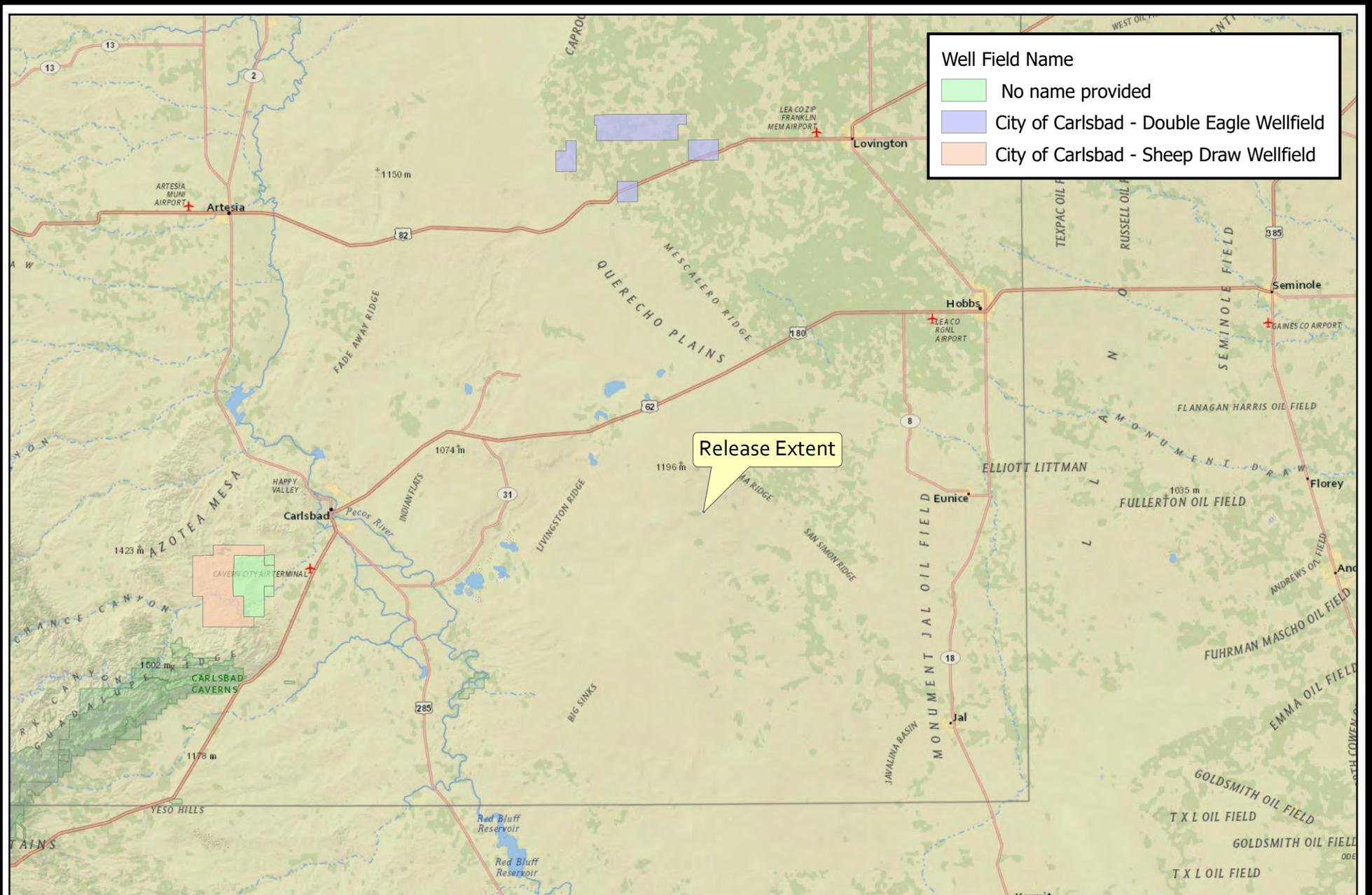
0 200 400
US Feet



Nearby Areas
Incident #: nCH1903862333 AEP#: 02062019-0900-dc

Plate 05
01/05/2021

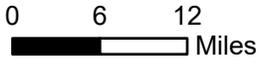
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Well Field Name

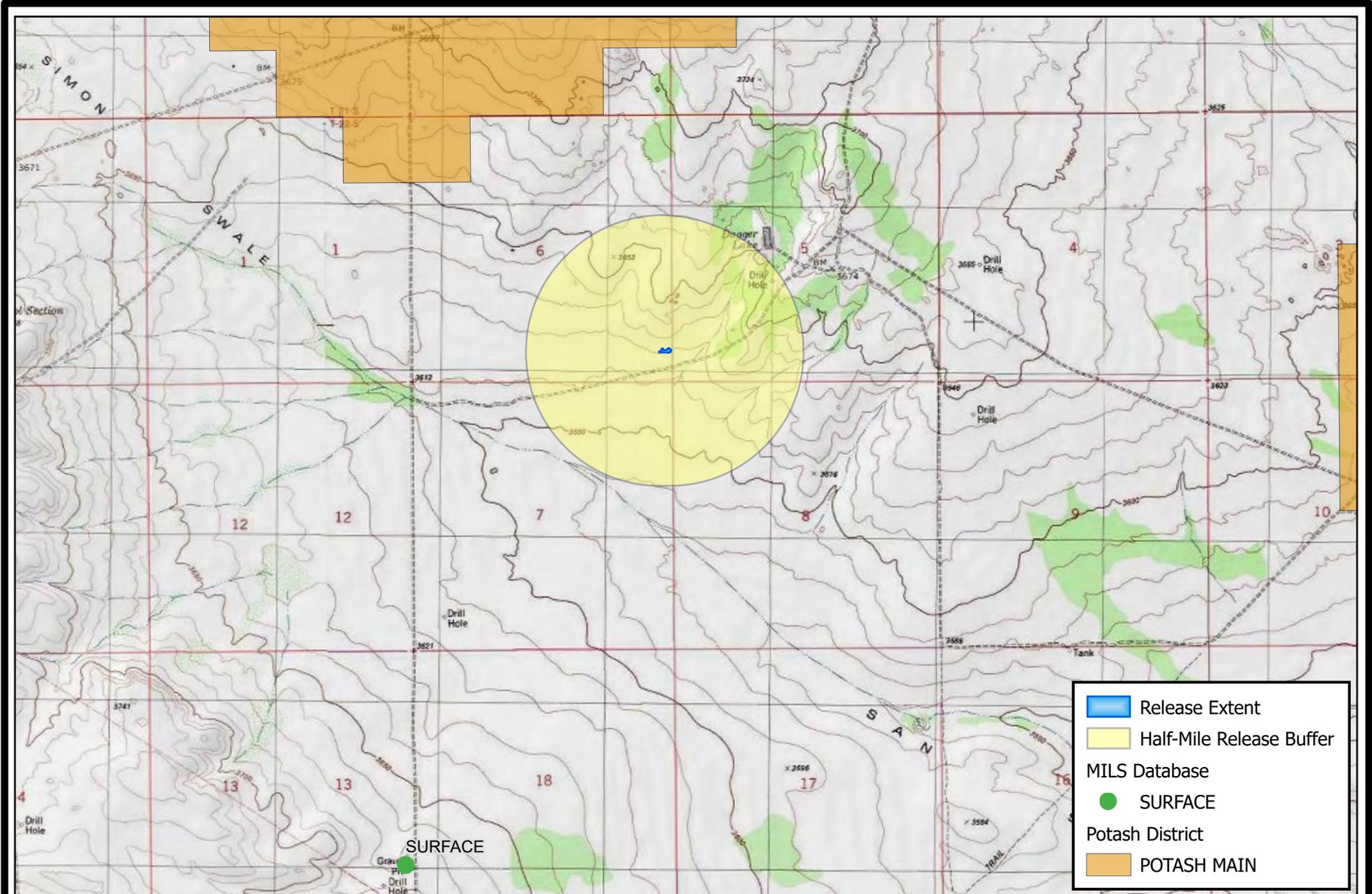
- No name provided
- City of Carlsbad - Double Eagle Wellfield
- City of Carlsbad - Sheep Draw Wellfield

Release Extent



Well Fields and Municipal Areas	Plate 06
Incident #: nCH1903862333 AEP#: 02062019-0900-dc	01/05/2021

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0 0.25 0.5
Miles



Mines and Minerals

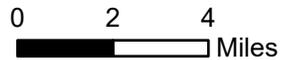
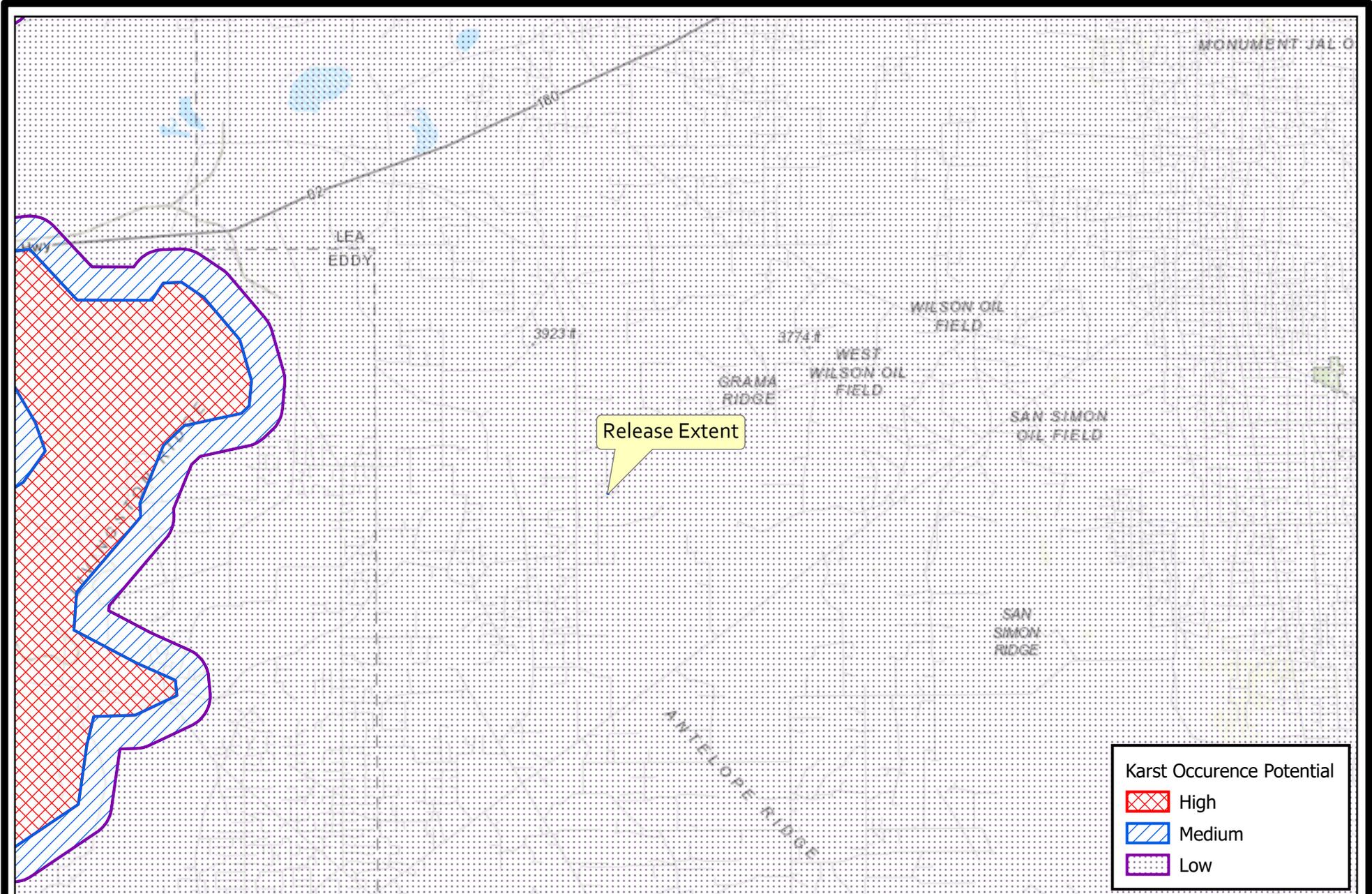
Plate 7

Incident #: nCH1903862333

AEP#: 02062019-0900-dc

01/05/2021

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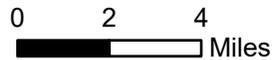
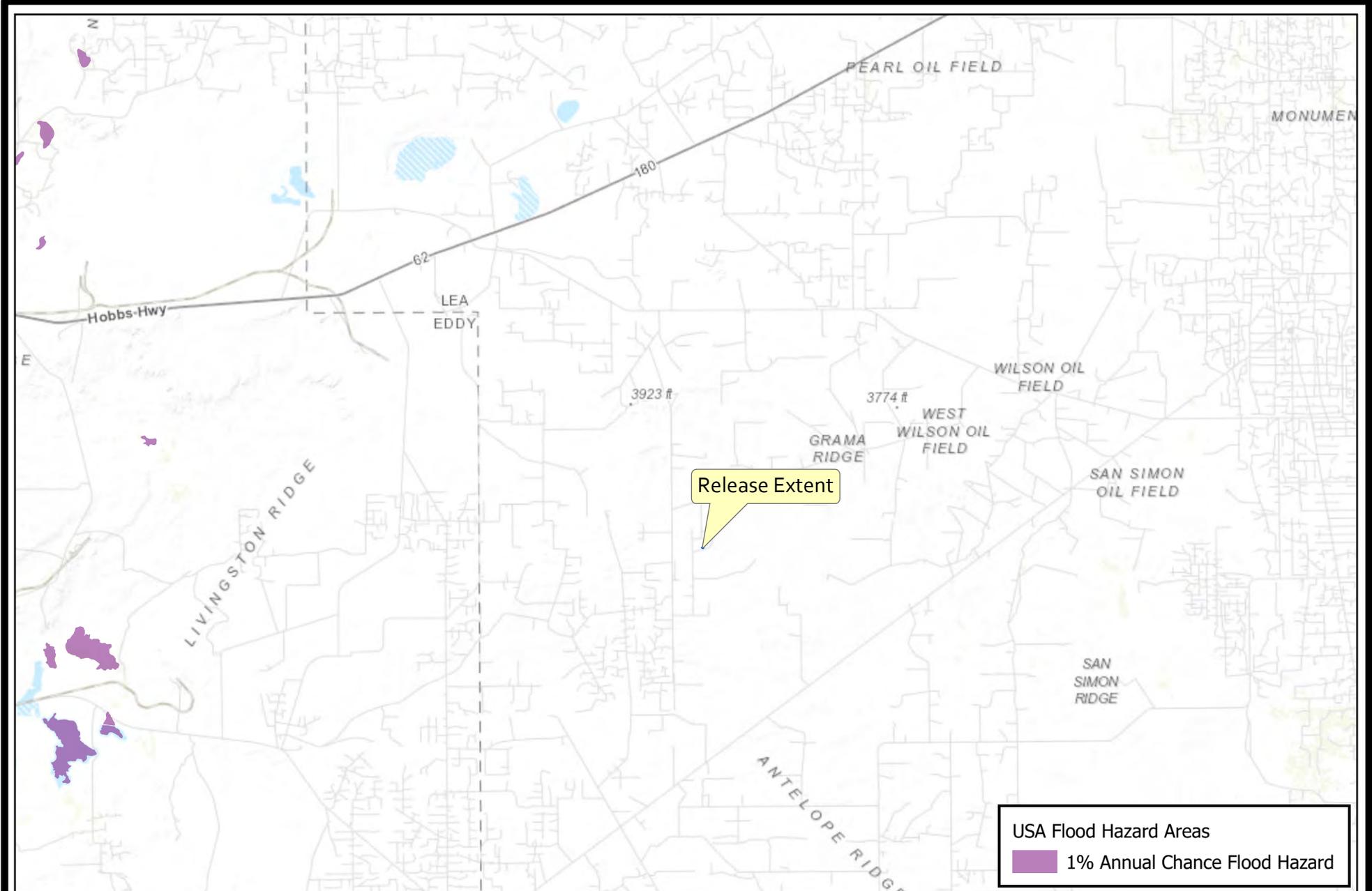
Karst

Plate 8

Incident #: nCH1903862333
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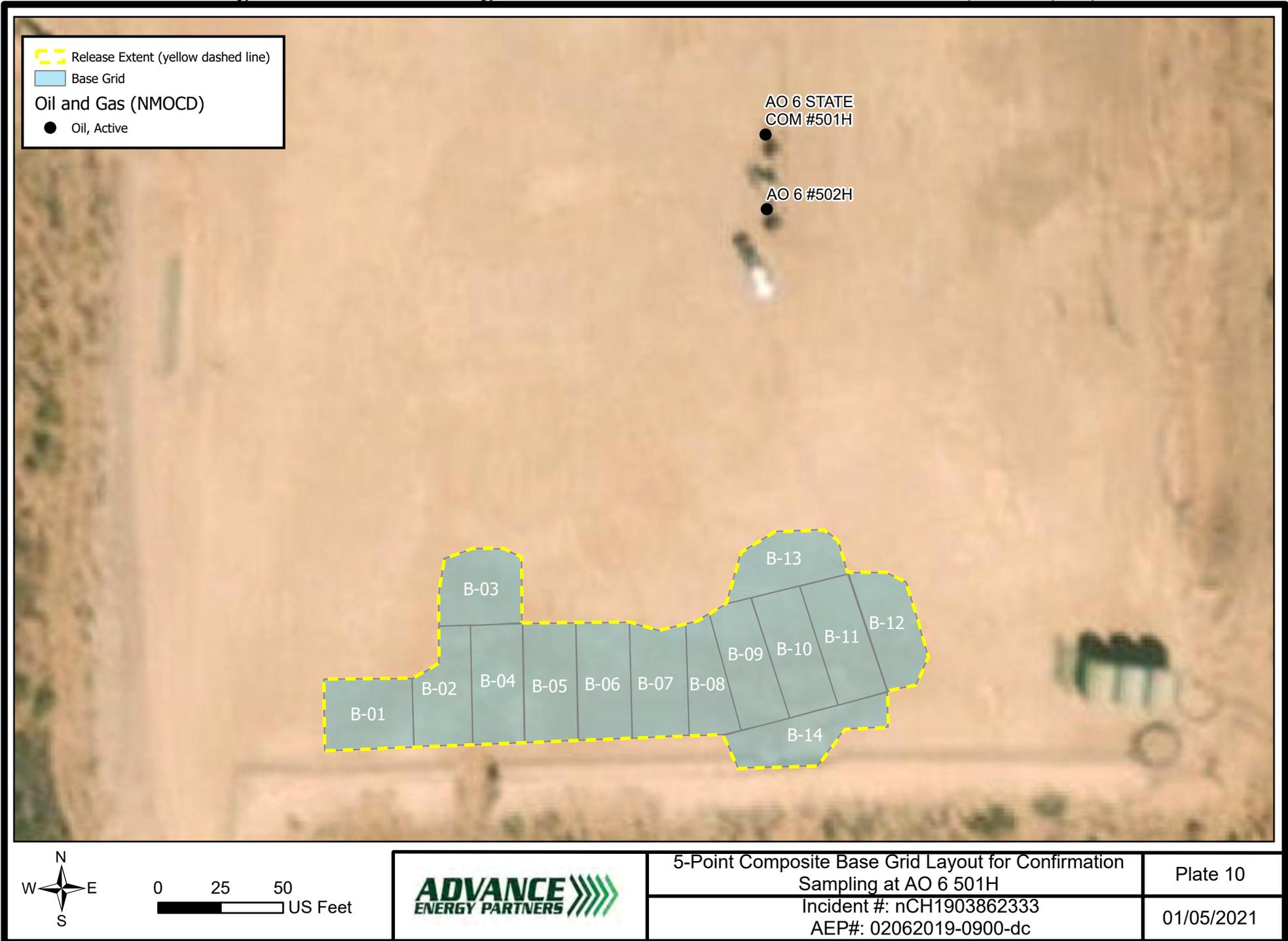
Flood Hazard

Plate 9

Incident #: nCH1903862333
AEP#: 02062019-0900-dc

01/05/2021

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Tables



Table 1
Characterization Sampling Results

Sample ID	Date	Matrix (Soil/Water)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)
NMOCD Limits										
0 - 4 feet & "not in-use"						600	--	2,500	10	50
> 4 ft or "in-use"						20,000	1,000	2,500	10	50
Trench-01	2/24/2019	soil		0	4	2300	<14.2	<62.2	<0.023	<0.208
Trench-01	2/24/2019	soil	4.5			<60	<14.3	<61.3	<0.024	<0.217
Trench-02	2/24/2019	soil		0	4	<59	<14.7	<64.7	<0.023	<0.21
Trench-02	2/24/2019	soil	4.5			<60	<14.3	<62.3	<0.024	<0.215
HA-01	9/24/2020	soil		0	2	48	<20	<30	<0.05	<0.30
HA-01	9/24/2020	soil		2	4	144	<20	<30	<0.05	<0.30
HA-01	9/24/2020	soil	4.5			64	<20	<30	<0.05	<0.30
HA-02 Central	9/27/2020	soil		0	2	64	<20	<30	<0.05	<0.30
HA-02 Central	9/27/2020	soil		2	4	<16	<20	<30	<0.05	<0.30
HA-02 Central	9/27/2020	soil	4.5			<16	<20	<30	<0.05	<0.30
HA-03 East	9/29/2020	soil		0	2	192	<20	<30	<0.05	<0.30
HA-03 East	9/29/2020	soil		2	4	<16	<20	<30	<0.05	<0.30
HA-03 East	9/29/2020	soil	4.5			<16	<20	<30	<0.05	<0.30
HA-04 East-2	9/29/2020	soil		0	2	32	<20	<30	<0.05	<0.30
HA-04 East-2	9/29/2020	soil		2	4	<16	<20	<30	<0.05	<0.30
HA-04 East-2	9/29/2020	soil	4.5			<16	<20	<30	<0.05	<0.30
HA-05	9/30/2020	soil		0	2	32	<20	<30	<0.05	<0.30
HA-05	9/30/2020	soil		2	4	80	<20	<30	<0.05	<0.30
HA-05	9/30/2020	soil	4.5			48	<20	<30	<0.05	<0.30
HA-06	9/30/2020	soil		0	2	48	<20	<30	<0.05	<0.30
HA-06	9/30/2020	soil		2	4	112	<20	<30	<0.05	<0.30
HA-06	9/30/2020	soil	4.5			224	<20	<30	<0.05	<0.30
HA-07	9/30/2020	soil		0	2	4480	<20	<30	<0.05	<0.30
HA-07	9/30/2020	soil		2	4	2880	<20	<30	<0.05	<0.30
HA-07	9/30/2020	soil	4.5			2680	<20	<30	<0.05	<0.30
Background	9/30/2020	soil		0	2	80	<20	<30	<0.05	<0.30
Background	9/30/2020	soil		2	4	<16	<20	<30	<0.05	<0.30
Background	9/30/2020	soil	4.5			<16	<20	<30	<0.05	<0.30

Exceeds Closure Criteria

Name	Longitude	Latitude
HA-01	-103.6040256	32.41511906
HA-02 Central	-103.6037842	32.41537617
HA-03 East	-103.603301	32.41540731
HA-04 East-2	-103.6032126	32.41533242
HA-05	-103.6034378	32.41509052
HA-06	-103.6038212	32.41517394
HA-07	-103.6034163	32.415218
HA-Background	-103.6040333	32.41541099
Source	-103.6034361	32.41519016
Trench-01	-103.6038717	32.41516824
Trench-02	-103.6037204	32.41529428

Appendix A

Well Logs





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)		
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02096	2	3	14	22S	32E	627204	3584464*	

x

Driller License:	Driller Company:		
Driller Name: JOHN H. TRIGG CO.			
Drill Start Date:	Drill Finish Date:	12/31/1963	Plug Date:
Log File Date:	PCW Rcv Date:		Source:
Pump Type:	Pipe Discharge Size:		Estimated Yield: 25 GPM
Casing Size: 7.00	Depth Well:	435 feet	Depth Water: 360 feet

x

*UTM location was derived from PLSS - see Help

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

4/17/20 3:04 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)
Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y		
	C 02821	2 2 3 14 22S 32E	627303	3584563*		

x		Driller License: 1348	Driller Company: TAYLOR WATER WELL SERVICE
Driller Name:			
Drill Start Date: 06/12/2001	Drill Finish Date: 06/23/2001	Plug Date:	
Log File Date: 10/04/2001	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield: 2 GPM	
Casing Size: 5.00	Depth Well: 540 feet	Depth Water: 340 feet	

x		Water Bearing Stratifications:	Top	Bottom	Description
			410	540	Sandstone/Gravel/Conglomerate

x		Casing Perforations:	Top	Bottom
			410	430
			440	540

x
*UTM location was derived from PLSS - see Help

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

4/17/20 3:09 PM

POINT OF DIVERSION SUMMARY

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

CAPITAN BASIN
BASIN NAME

Declaration No. CP-601 Date received April 17, 1979

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501
80227
19
79 APR 20 PM 3 01

STATEMENT

- Name of Declarant THE MERCHANT LIVESTOCK COMPANY
Mailing Address P.O. Box 548 Carlsbad
County of Eddy, State of New Mexico
- Source of water supply shallow
(artesian or shallow water aquifer)
- Describe well location under one of the following subheadings:
a. $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 28 Twp. 21S Rge. 33-E N.M.P.M., in
Lea County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone
in the _____ Grant.
On land owned by _____
- Description of well: date drilled 1952 driller _____ depth 2231 feet.
outside diameter of casing 6 5/8 inches; original capacity _____ gal. per min.; present capacity 3
gal. per min.; pumping lift _____ feet; static water level 178 feet (above) (below) land surface;
make and type of pump _____
make, type, horsepower, etc., of power plant _____
Fractional or percentage interest claimed in well 100%
- Quantity of water appropriated and beneficially used up to 3
for stock water purposes.

6. Acreage actually irrigated _____ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
			<u>stock only</u>		<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use _____ month _____ day _____ year _____ and since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: _____

8. Additional statements or explanations _____

name of well - Standard

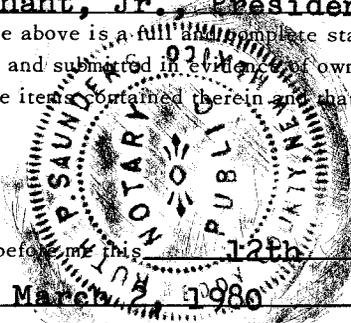
I, J. D. Merchant, Jr., President being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in _____ ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

THE MERCHANT LIVESTOCK CO. declarant.

by: J. D. Merchant, Jr., President
day of April, A.D. 1979

Subscribed and sworn to before me this 12th

My commission expires March 2, 1980 _____ Notary Public



STATE ENGINEER OFFICE
ROSWELL, N.M.
79 APR 17 AM 9 01

563298

UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM. ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _____, Township _____, Range _____ N. M. P. M.

INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

SF

EL

APR 20 PM 3 00

April 17, 1979

STATE ENGINEER OFFICE
CARLSBAD, N.M. 81501

Files: CP-584; CP-585; CP-586; CP-587; CP-588;
CP-589; CP-590; CP-591; CP-592; CP-593;
CP-594; CP-595; CP-596; CP-597; CP-598;
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company
P. O. Box 548
Carlsbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose
Basin Supervisor

JCG/fh
Encls.
cc: Santa Fe

563298



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
	CP 00854 POD1	1 1 2 33 21S 33E	633879	3590223

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE		
Driller Name: GLENN, CLARK A."CORKY" (LD)			
Drill Start Date: 06/22/1996	Drill Finish Date: 06/22/1996	Plug Date:	
Log File Date: 07/11/1996	PCW Rcv Date: 10/17/2013	Source: Shallow	
Pump Type: SUBMER	Pipe Discharge Size: 2.875	Estimated Yield: 100 GPM	
Casing Size: 6.63	Depth Well: 950 feet	Depth Water: 600 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	755	805	Sandstone/Gravel/Conglomerate
	860	890	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	760	950

Meter Number: 8514	Meter Make: BLANCETT
Meter Serial Number: 040711711	Meter Multiplier: 1.0000
Number of Dials: 7	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
03/15/2004	2004	121	A	jw		0
03/29/2004	2004	69871	A	jw		0
05/17/2004	2004	8758	A	jw		2.651
06/11/2004	2004	79641	A	jw		2.998
01/27/2012	2012	18062553	A	RPT	Initial reading	0
03/01/2012	2012	19039807	A	RPT		2.999
05/29/2013	2013	179696	A	RPT	initial reading	0
10/07/2013	2013	460774	A	RPT	Qtr IV 2013	36.229
11/11/2013	2013	540326	A	RPT		10.254
01/01/2014	2013	614283	A	RPT		9.533
10/01/2014	2014	1122654	A	RPT		65.526
01/01/2015	2014	1212343	A	RPT		11.560
03/31/2015	2015	1307063	A	RPT		12.209
06/27/2015	2015	1369556	A	RPT		8.055

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
09/30/2015	2015	1371471	A	RPT	0.247
10/22/2015	2015	1400502	A	RPT	3.742
11/30/2015	2015	1400502	A	RPT	0
04/28/2016	2016	1464116	A	RPT "JD33 Well"	8.199
06/01/2016	2016	1464116	A	RPT	0
07/27/2016	2016	1496980	A	RPT JD33 Well	4.236
09/01/2016	2016	1510835	A	RPT JD 33 Well	1.786
09/30/2016	2016	1517146	A	RPT	0.813
10/31/2016	2016	1531178	A	RPT JD 33 well	1.809
11/29/2016	2016	1553285	A	RPT JD33 Well	2.849
03/01/2017	2017	1583100	A	RPT	3.843

**YTD Meter Amounts:	Year	Amount
	2004	5.649
	2012	2.999
	2013	56.016
	2014	77.086
	2015	24.253
	2016	19.692
	2017	3.843

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



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number								
		<small>(quarters are 1=NW 2=NE 3=SW 4=SE)</small>		<small>(quarters are smallest to largest)</small>		<small>(NAD83 UTM in meters)</small>			
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01349 POD1	2	3	1	27	21S	33E	635304	3591576

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A. "CORKY"		
Drill Start Date: 07/12/2014	Drill Finish Date: 07/18/2014	Plug Date:
Log File Date: 08/04/2014	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 1188 feet	Depth Water: 572 feet

Water Bearing Stratifications:	Top	Bottom	Description
	990	1188	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	721	1188

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
205 WELLS, NEW MEXICO

2014 SEP 10 PM 2:15

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1355 (East Standard South) *** Revised 09/09/14 ***				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) Merchants/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424			
	WELL OWNER MAILING ADDRESS P. O. Box 692				CITY Tatum	STATE NM	ZIP 88267	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 54.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	33	58.3	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE1/4NW1/4SW1/4 Section 27, Township 21 South, Range 33 East on Merchants Livestock Land								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421	NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.			
	DRILLING STARTED 07/22/14	DRILLING ENDED 07/29/14	DEPTH OF COMPLETED WELL (FT) 1,192'	BORE HOLE DEPTH (FT) 1,192'	DEPTH WATER FIRST ENCOUNTERED (FT) 925'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 582'			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	40'	20"	16"	None	15 1/2"	.250	
	0'	757'	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	none
	690'	1,192'	8 3/4"	7" (502.14' Total) 317.96 perforated on bottom of liner	Thread & Collar	6.366"	23 lbs.	1/8"
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0'	40'	20"	Cemented	2 yds.	Top Pour		
0	757'	14 3/4"	Float and shoe cemented to surface	962	Circulated			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER CP-1355	POD NUMBER 1	TRN NUMBER 549450
LOCATION Expl	215.33E.27.312	

PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	4'	4'	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
4'	28'	24'	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
28'	120'	92'	Sand & Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
120'	260'	140'	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
260'	757'	497'	Red & Brown Shale, and Clay (some blue)	<input type="radio"/> Y <input checked="" type="radio"/> N	
757'	815'	58'	Red & Brown Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
815'	840'	25'	Blue Clay & Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
840'	925'	85'	Red and Brown Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
925'	975'	50'	Watersand and Gravel	<input checked="" type="radio"/> Y <input type="radio"/> N	
975'	1,185'	210'	Watersand (brown sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
1,185'	1,192'	7'	Red Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	0' to 757' drilled with mud. 757' to 1192' drilled with air and foam.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Coakly Glen H DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1355	POD NUMBER	1
LOCATION	215.33E.27.312	TRN NUMBER	549450
			PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP - 1355 East Standard (South)				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) Merchants Livestock/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) (575)398-2424			
	WELL OWNER MAILING ADDRESS P.O. Box 692				CITY Tatum		STATE NM	ZIP 88267
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	32	26	54.8 N			
	LONGITUDE	103	33	58.3 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE/NW/SW Sec. 27, T21S, R33E on Merchants Livestock Land								

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.		
	DRILLING STARTED 7/29/14	DRILLING ENDED 8/2/14	DEPTH OF COMPLETED WELL (FT) 1192'	BORE HOLE DEPTH (FT) 1192'	DEPTH WATER FIRST ENCOUNTERED (FT) 925'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 582'		
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0'	40'	20"	16"	None	15 1/2"	.250		
0'	757'	14 3/4"	9 5/8"	Thread and Collar	.352	36 lbs.	none	
757'	1192'	8 3/4"	7"	Thread and Collar	6.5"	23 lbs.	1/8"	

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0'	40'	20"	Cemented	2 yds	Top Pour
0'	757'	14 3/4"	Float and Shoe Cemented to Surface	1034	Circulated	

STATE ENGINEER OFFICE
 2014 AUG - 8 AM 9:53
 NEW MEXICO

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1355	POD NUMBER	1
LOCATION	Exp1	TRN NUMBER	549450
			PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0'	4'	4'	Soil	<input type="radio"/> Y <input checked="" type="radio"/> N	
4'	28'	24'	Caleche	<input type="radio"/> Y <input checked="" type="radio"/> N	
28'	120'	92'	Sand and Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
120'	260'	140'	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
260'	757'	497'	Red and Brown Shale and Clay(some blue)	<input type="radio"/> Y <input checked="" type="radio"/> N	
757'	815'	58'	Red and Brown Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
815'	840'	25'	Blue Clay and Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
840'	925'	85'	Red and Brown Shale(some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
925'	975'	50'	Watersand and Gravel	<input checked="" type="radio"/> Y <input type="radio"/> N	
975'	1185'	210'	Watersand(brown sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
1185'	1192'	7'	Red Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	0' to 757' drilled with mud. 757' to 1192' drilled with air and foam.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	<i>Corky Glenn</i> / <u>Corky Glenn</u>	<u>8/7/14</u>

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	<u>CP-1355</u>	POD NUMBER	<u>1</u>
LOCATION	<u>Exp1</u>	TRN NUMBER	<u>549450</u>
			PAGE 2 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)	(NAD83 UTM in meters)				
		Q64 Q16 Q4 Sec Tws Rng	X	Y			
	CP 01356 POD1	4 2 2 33 21S 33E	634560	3590014			

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY"		
Drill Start Date: 08/01/2014	Drill Finish Date: 08/09/2014	Plug Date:
Log File Date: 08/25/2014	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.37	Depth Well: 1098 feet	Depth Water: 555 feet

Water Bearing Stratifications:	Top	Bottom	Description
	765	795	Sandstone/Gravel/Conglomerate
	795	825	Shale/Mudstone/Siltstone
	825	920	Sandstone/Gravel/Conglomerate
	920	935	Shale/Mudstone/Siltstone
	935	968	Sandstone/Gravel/Conglomerate
	968	976	Shale/Mudstone/Siltstone
	976	1005	Sandstone/Gravel/Conglomerate
	1005	1092	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	735	1098

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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 01357 POD1	4 3 1	27	21S	33E	634782	3591347

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE		
Driller Name: GLENN, CLARK A."CORKY"			
Drill Start Date: 08/16/2014	Drill Finish Date: 08/26/2014	Plug Date:	
Log File Date: 09/10/2014	PCW Rcv Date:	Source: Artesian	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 6.37	Depth Well: 1286 feet	Depth Water: 578 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	945	960	Sandstone/Gravel/Conglomerate
	960	1077	Shale/Mudstone/Siltstone
	1077	1215	Sandstone/Gravel/Conglomerate
	1215	1286	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	846	1286

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1701-POD1		WELL TAG ID NO.		OSE FILE NO(S)			
	WELL OWNER NAME(S) The Jimmy Mills GST and 2005 GST Trusts				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS c/o Stacey Mills PO Box 1359				CITY Loving	STATE NM	ZIP 88256-1358	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 0.5	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	39	10.1	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1706	NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation			
	DRILLING STARTED 10/15/18	DRILLING ENDED 11/29/18	DEPTH OF COMPLETED WELL (FT) 840	BORE HOLE DEPTH (FT) 880	DEPTH WATER FIRST ENCOUNTERED (FT) 560			
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 457			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	12.75	ASTM53 Grade B Steel	N/A	12.57	.188	
	+2	460	12.25	ASTM53 Grade B steel	Welded	6.065	.28	
	460	840	12.25	SDR17 PVC	Spline	6	SDR17	.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	12.75	Portland I/II Cement	17	Pour		
	0	453	12.25	Baroid Benseal Grout	247	Trinnie		
	453	860	12.25	8/16 Silica Sand	285	Pour		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1701	POD NO. 1	TRN NO. 019305
LOCATION Expi	215.32E.35.31	WELL TAG ID NO. —

Appendix B

Certificate of Analysis





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

March 01, 2019

Andrew Parker
R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX: (505) 266-0745

RE: Advance Energy

OrderNo.: 1902A41

Dear Andrew Parker:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/25/2019 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 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 white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1902A41**

Date Reported: 3/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Trench 1 0-4 ft

Project: Advance Energy

Collection Date: 2/24/2019 1:30:00 PM

Lab ID: 1902A41-001

Matrix: SOIL

Received Date: 2/25/2019 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	2300	60		mg/Kg	20	2/28/2019 1:53:09 PM	43385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/27/2019 1:10:15 PM	43351
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2019 1:10:15 PM	43351
Surr: DNOP	110	70-130		%Rec	1	2/27/2019 1:10:15 PM	43351
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/26/2019 3:12:54 PM	43319
Surr: BFB	104	73.8-119		%Rec	1	2/26/2019 3:12:54 PM	43319
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	2/26/2019 3:12:54 PM	43319
Toluene	ND	0.046		mg/Kg	1	2/26/2019 3:12:54 PM	43319
Ethylbenzene	ND	0.046		mg/Kg	1	2/26/2019 3:12:54 PM	43319
Xylenes, Total	ND	0.093		mg/Kg	1	2/26/2019 3:12:54 PM	43319
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	2/26/2019 3:12:54 PM	43319

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
	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 **1902A41**

Date Reported: 3/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Trench 1 4.5 ft

Project: Advance Energy

Collection Date: 2/24/2019 1:35:00 PM

Lab ID: 1902A41-002

Matrix: SOIL

Received Date: 2/25/2019 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	2/28/2019 2:30:23 PM	43385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/27/2019 1:32:29 PM	43351
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/27/2019 1:32:29 PM	43351
Surr: DNOP	91.1	70-130		%Rec	1	2/27/2019 1:32:29 PM	43351
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/26/2019 3:36:58 PM	43319
Surr: BFB	105	73.8-119		%Rec	1	2/26/2019 3:36:58 PM	43319
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/26/2019 3:36:58 PM	43319
Toluene	ND	0.048		mg/Kg	1	2/26/2019 3:36:58 PM	43319
Ethylbenzene	ND	0.048		mg/Kg	1	2/26/2019 3:36:58 PM	43319
Xylenes, Total	ND	0.097		mg/Kg	1	2/26/2019 3:36:58 PM	43319
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	2/26/2019 3:36:58 PM	43319

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
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 **1902A41**

Date Reported: 3/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Trench 2 0-4 ft

Project: Advance Energy

Collection Date: 2/24/2019 2:00:00 PM

Lab ID: 1902A41-003

Matrix: SOIL

Received Date: 2/25/2019 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	59		mg/Kg	20	2/28/2019 3:07:36 PM	43385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/27/2019 2:03:39 PM	43351
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/27/2019 2:03:39 PM	43351
Surr: DNOP	117	70-130		%Rec	1	2/27/2019 2:03:39 PM	43351
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/26/2019 4:01:01 PM	43319
Surr: BFB	104	73.8-119		%Rec	1	2/26/2019 4:01:01 PM	43319
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	2/26/2019 4:01:01 PM	43319
Toluene	ND	0.047		mg/Kg	1	2/26/2019 4:01:01 PM	43319
Ethylbenzene	ND	0.047		mg/Kg	1	2/26/2019 4:01:01 PM	43319
Xylenes, Total	ND	0.093		mg/Kg	1	2/26/2019 4:01:01 PM	43319
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	2/26/2019 4:01:01 PM	43319

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
	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 **1902A41**

Date Reported: 3/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Trench 2 4.5 ft

Project: Advance Energy

Collection Date: 2/24/2019 2:15:00 PM

Lab ID: 1902A41-004

Matrix: SOIL

Received Date: 2/25/2019 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	2/28/2019 3:20:01 PM	43385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/27/2019 2:25:55 PM	43351
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2019 2:25:55 PM	43351
Surr: DNOP	121	70-130		%Rec	1	2/27/2019 2:25:55 PM	43351
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/26/2019 4:25:04 PM	43319
Surr: BFB	105	73.8-119		%Rec	1	2/26/2019 4:25:04 PM	43319
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/26/2019 4:25:04 PM	43319
Toluene	ND	0.048		mg/Kg	1	2/26/2019 4:25:04 PM	43319
Ethylbenzene	ND	0.048		mg/Kg	1	2/26/2019 4:25:04 PM	43319
Xylenes, Total	ND	0.095		mg/Kg	1	2/26/2019 4:25:04 PM	43319
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	2/26/2019 4:25:04 PM	43319

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
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#: 1902A41

01-Mar-19

Client: R.T. Hicks Consultants, LTD

Project: Advance Energy

Sample ID: MB-43385	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 43385	RunNo: 58031								
Prep Date: 2/27/2019	Analysis Date: 2/28/2019	SeqNo: 1944677	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-43385	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 43385	RunNo: 58031								
Prep Date: 2/27/2019	Analysis Date: 2/28/2019	SeqNo: 1944678	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A41

01-Mar-19

Client: R.T. Hicks Consultants, LTD

Project: Advance Energy

Sample ID: LCS-43351	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 43351		RunNo: 57971							
Prep Date: 2/26/2019	Analysis Date: 2/27/2019		SeqNo: 1941438		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	63.9	124			
Surr: DNOP	5.6		5.000		112	70	130			

Sample ID: MB-43351	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 43351		RunNo: 57971							
Prep Date: 2/26/2019	Analysis Date: 2/27/2019		SeqNo: 1941439		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A41

01-Mar-19

Client: R.T. Hicks Consultants, LTD

Project: Advance Energy

Sample ID: MB-43319	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 43319	RunNo: 57944								
Prep Date: 2/25/2019	Analysis Date: 2/26/2019	SeqNo: 1940605	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	73.8	119			

Sample ID: LCS-43319	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 43319	RunNo: 57944								
Prep Date: 2/25/2019	Analysis Date: 2/26/2019	SeqNo: 1940606	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80.1	123			
Surr: BFB	1100		1000		113	73.8	119			

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 |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A41

01-Mar-19

Client: R.T. Hicks Consultants, LTD

Project: Advance Energy

Sample ID: MB-43319	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 43319	RunNo: 57944								
Prep Date: 2/25/2019	Analysis Date: 2/26/2019	SeqNo: 1940623	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID: LCS-43319	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 43319	RunNo: 57944								
Prep Date: 2/25/2019	Analysis Date: 2/26/2019	SeqNo: 1940624	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.4	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	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



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: RT HICKS Work Order Number: 1902A41 RcptNo: 1

Received By: Erin Melendrez 2/25/2019 12:00:00 PM
Completed By: Victoria Zellar 2/25/2019 12:54:10 PM
Reviewed By: JO 2/25/19

Handwritten signatures and notes: Victoria Zellar, Labeled by TMM 2-25-19

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [] No [checked] NA []
5. Sample(s) in proper container(s)? Approved by client. Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. VOA vials have zero headspace? Yes [] No [] No VOA Vials [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: Adjusted? Checked by:

Handwritten note: TMM 2-25-19

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

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

16. Additional remarks:

17. Cooler Information

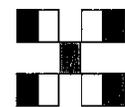
Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 13.3, Good, Not Present, , ,

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



Chain-of-Custody Record

Client: RT Hicks Consultants
 Mailing Address: en. file
 Phone #: 970-570-9535
 email or Fax#: andrew@rthicksconsult.com
 QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: Az Compliance NELAC Other EDD (Type)

Project Manager: Andrew Parker
 Sampler: Andrew Parker

On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CFE): 13.3°C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/24	13:30	Soil	Trench 1 0-4 ft	402 J.c		1902A41
	13:35		Trench 1 4.5 ft			-001
	14:00		Trench 2 0-4 ft			-002
	14:15		Trench 2 4.5 ft			-003
						-004

Analysis Request	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Benzene	Chloride
(BTEX) MTBE / TMB's (8021)	X									X	X
											X
											X
											X

Received by: [Signature] Via: CDO Date: 2/25/19 Time: 1200
 Relinquished by: Andrew Parker
 Received by: [Signature] Via: Date: Time:
 Relinquished by:

Remarks: Temp ok 2/24/19

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 30, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 PAD

Enclosed are the results of analyses for samples received by the laboratory on 09/25/20 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	09/25/2020	Sampling Date:	09/24/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 01 0-2' (H002554-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2020	ND	2.08	104	2.00	5.02	
Toluene*	<0.050	0.050	09/28/2020	ND	2.03	102	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/28/2020	ND	2.09	104	2.00	5.24	
Total Xylenes*	<0.150	0.150	09/28/2020	ND	6.11	102	6.00	5.07	
Total BTEX	<0.300	0.300	09/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/28/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2020	ND	186	93.1	200	5.08	
DRO >C10-C28*	<10.0	10.0	09/29/2020	ND	190	95.1	200	7.43	
EXT DRO >C28-C36	<10.0	10.0	09/29/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	09/25/2020	Sampling Date:	09/24/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 01 2-4' (H002554-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2020	ND	2.08	104	2.00	5.02	
Toluene*	<0.050	0.050	09/28/2020	ND	2.03	102	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/28/2020	ND	2.09	104	2.00	5.24	
Total Xylenes*	<0.150	0.150	09/28/2020	ND	6.11	102	6.00	5.07	
Total BTEX	<0.300	0.300	09/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/28/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2020	ND	189	94.3	200	0.997	
DRO >C10-C28*	<10.0	10.0	09/29/2020	ND	191	95.6	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	09/29/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	09/25/2020	Sampling Date:	09/24/2020
Reported:	09/30/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 01 4.5' (H002554-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2020	ND	2.08	104	2.00	5.02	
Toluene*	<0.050	0.050	09/28/2020	ND	2.03	102	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/28/2020	ND	2.09	104	2.00	5.24	
Total Xylenes*	<0.150	0.150	09/28/2020	ND	6.11	102	6.00	5.07	
Total BTEX	<0.300	0.300	09/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/28/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2020	ND	189	94.3	200	0.997	
DRO >C10-C28*	<10.0	10.0	09/29/2020	ND	191	95.6	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	09/29/2020	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 143 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Advance Energy Partners
 Project Manager: Andrew Parker
 Address: On-File
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: 02062019-0900-dc
 Project Location: A OC Pad
 Sampler Name: Jacob Saenz
 P.O. #: 02062019-0900-dc
 Company: AEP
 Attn: Send to
 Address: Aparker@advanceenergy.com
 City: energypartners.com
 State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HH02554	HA01	C	1							9/24/21	1pm	X	X	X
	HA-01	C	1							1:30pm	2pm	X	X	X
	HA-01	G	1									X	X	X

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Relinquished By: SAENZ
 Date: 9-25-20
 Time: 10:45
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: P.O.C #113
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #:
 Add'l Fax #:
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 07, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 PAD

Enclosed are the results of analyses for samples received by the laboratory on 10/01/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 02 CENTRAL 0-2' (H002615-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 02 CENTRAL 2-4' (H002615-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 02 CENTRAL 4.5' (H002615-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.4 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 03 EAST 0-2' (H002615-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 03 EAST 2-4' (H002615-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.5 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 03 EAST 4.5' (H002615-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 04 EAST-2 0-2' (H002615-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/05/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 04 EAST-2 2-4' (H002615-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/27/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 04 EAST-2 4.5' (H002615-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 96.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 0-2' (H002615-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/05/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.5 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 2-4' (H002615-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 96.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.8 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 4.5' (H002615-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/05/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 06 0-2' (H002615-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/05/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 96.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 06 2-4' (H002615-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/06/2020	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 06 4.5' (H002615-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/06/2020	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 0-2' (H002615-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	10/06/2020	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 2-4' (H002615-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	10/06/2020	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 98.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/29/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 4.5' (H002615-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79		
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04		
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26		
Total BTEX	<0.300	0.300	10/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	10/06/2020	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87		
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND						

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/30/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - BACKGROUND 0-2' (H002615-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/06/2020	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/30/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - BACKGROUND 2-4' (H002615-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/06/2020	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/01/2020	Sampling Date:	09/30/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	02062019-0900-DC (501H)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - BACKGROUND 4.5' (H002615-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2020	ND	2.28	114	2.00	3.79	
Toluene*	<0.050	0.050	10/02/2020	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	10/02/2020	ND	2.27	114	2.00	4.04	
Total Xylenes*	<0.150	0.150	10/02/2020	ND	6.64	111	6.00	4.26	
Total BTEX	<0.300	0.300	10/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/06/2020	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	218	109	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	223	112	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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* = Accredited Analyte

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Advance Energy Partners		BILL TO	
Project Manager: Andrew Parker		P.O. #: 02062019-0900-dc	
Address: On-File		Company: AEP	
City: State: Zip:		Attn: Send to	
Phone #: Fax #: Project Owner:		Address: Aparker@advance	
Project Name: 02062019-0900-dc		City: energypartners.com	
Project Location: A 06 Sol H Pad		State: Zip:	
Sampler Name: Jacob Saenz		Phone #: Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	HA-02 Central	C	1							9/27/08	8:30am	✓	✓	✓
2	HA-02 Central	C	1							9/27/08	8:30am	✓	✓	✓
3	HA-02 Central	C	1							9/27/08	9am	✓	✓	✓
4	HA-03 East	C	1							9/28/08	9:15am	✓	✓	✓
5	HA-03 East	C	1							9/28/08	9:30am	✓	✓	✓
6	HA-03 East	C	1							9/28/08	10am	✓	✓	✓
7	HA-04 East-2	C	1							10/20/08	10:30am	✓	✓	✓
8	HA-04 East-2	C	1							11am	11am	✓	✓	✓
9	HA-04 East-2	C	1							11:30am	11:30am	✓	✓	✓
10	HA-05	C	1							9/29/08	7:30am	✓	✓	✓

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Relinquished By: 3ALOB SAGNL Date: 10-1-20 Time: 16:40
 Received By: Jawara Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS - Bus - Other: S.I.C #113
 Sample Condition: Cool Intact
 Checked By: (Initials) T.B.

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

P.O. #: 02062019-0900-dc

ANALYSIS REQUEST

Company Name: Advance Energy Partners
 Project Manager: Andrew Parker
 Address: On-File
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: 02062019-0900-dc
 Project Location: A06 SO1H Rd
 Sampler Name: Jacob Saenz
 P.O. #: 02062019-0900-dc
 Company: AEP
 Attn: Send to
 Address: Aparker@advance
 City: energypartners.com
 State: Zip:
 Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	HA-05	2-4FT	1	X						9/29/20	8:00	X		
12	HA-05	4.5FT	1								8:15			
13	HA-06	0-2FT	1								8:30			
14	HA-06	2-4FT	1								9:00			
15	HA-06	4.5FT	1								9:30			
16	HA-07	0-2FT	1								10:00			
17	HA-07	2-4FT	1								10:30			
18	HA-07	4.5FT	1								11:30			
19	HA - Background	0-2FT	1							9/30/20	7:00			
20	HA - Background	2-4FT	1							9/29/20	7:30			

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Relinquished By: *SAOB SREN2*
 Date: 10-1-20
 Time: 11:40
 Received By: *Jessica Delacruz*
 Date: _____
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: *SLC #113*
 Sample Condition: Cool Intact
 Checked By: *SD*

Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____

REMARKS: *B5 #2*

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Incident ID	nCH1903862333
District RP	1RP-5350
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

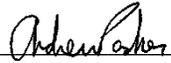
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: February 4, 2021

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: Robert Hamlet Date: 7/16/2021

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: 

Date: 7/16/2021

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 23579

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 23579
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Revised Sampling Plan is approved with the following conditions: When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. Please make sure all groundwater data is included in closure report summary. Soil samples will need to meet Table 1 Closure Criteria for proven depth to water determination. Closure samples should be representative of no more than 200 ft2, unless a variance has been approved. The samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH, defining the edge of the release.	7/16/2021