

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: Braden Harris	Contact Telephone: 832-672-4700
Contact email: bharris@advanceenergypartners.com	Incident # (assigned by OCD)
Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077	

Location of Release Source

Latitude 32.4415458 Longitude -103.5433673
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 12042020-1430-dc MSU 604H	Site Type Production Pad
Date Release Discovered 12/04/2020 at 14:30 hrs	API# (if applicable) 30-025-46699

Unit Letter	Section	Township	Range	County
C	35	21S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Merchant Livestock)

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) 23.2	Volume Recovered (bbls) 0
	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)

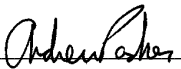
Cause of Release: Hose disconnect between the frac tanks and blender hopper during fracking operations

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Andrew Parker</u>	Title: <u>Env. Scientist</u>
Signature: <u></u>	Date: <u>12/05/2020</u>
email: <u>aparker@advanceenergypartners.com</u>	Telephone: <u>970-570-9535</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Release Volume Calculation

AEP#: 12042020-1430-dc

Merchant "B" Pad

MSU 604H

API: 30-025-46699

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	3726.50
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.10
Output	volume of fluid	[feet^3]	130.4
		[gal]	975.7
		Barrels	23.2

From GIS

Sq. Ft 7453

Depth (ft) 0.5

Cu. Ft 3726.5

05 Dec 2020

Incident ID	nAPP2036563650
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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? <u>Plates 2 & 3</u>	<u>128</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? <u>Plate 5</u>	<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)? <u>Plate 4</u>	<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? <u>Plate 6</u>	<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? <u>Plate 4</u>	<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? <u>Plate 4</u>	<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? <u>Plate 4</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <u>Plate 7</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <u>Plate 8</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <u>Plate 9</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <u>Plate 10</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

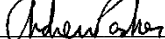
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: April 10, 2021email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**

Received by: _____

Date: _____

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Remediation Plan

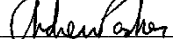
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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 ParkerTitle: Env. ScientistSignature: Date: April 10, 2021email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Andrew Parker

From: OCDOnline@state.nm.us
Sent: Monday, January 4, 2021 8:21 AM
To: Andrew Parker
Subject: The Oil Conservation Division (OCD) has accepted the application PO: RCUTW-201230-C-141A.

To whom it may concern (c/o Andrew Parker for ADVANCE ENERGY PARTNERS HAT MESA, LLC),

The OCD has accepted the submitted *Notification of a release* (C-141A), for incident ID (n#) nAPP2036563650, with the following conditions:

- **None**

Please reference nAPP2036563650, on all subsequent C-141 submissions regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, please contact me.

Thank you,
Ramona Marcus
Compliance Officer Advanced
505-470-3044
Ramona.Marcus@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Andrew Parker

From: Andrew Parker
Sent: Tuesday, March 23, 2021 10:16 AM
To: Enviro, OCD, EMNRD
Subject: NAPP2036563650 12042020-1430-DC MSU 604H @ 30-025-46699

NMOCD,

Advance Energy Partners respectfully asks for a 45-day extension to submit the characterization report and remediation/closure workplan for "NAPP2036563650 12042020-1430-DC MSU 604H @ 30-025-46699". Access to the release area was prohibitive during drilling, completion, and flowback operations; which was completed by March 8, 2021.

Characterization sampling occurred last week per our previous 48-hour sampling notice.

Please contact me with any questions.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



Andrew Parker

From: Andrew Parker
Sent: Friday, March 12, 2021 3:11 PM
To: Enviro, OCD, EMNRD
Subject: RE: 48 hour sampling Notice Incident #: nAPP2036563650

NMOCD,

Please accept this email as the 48-hour sampling notice for characterization of Incident #: nAPP2036563650

AEP#: 12042020-1430-dc

Andrew Parker
Environmental Scientist
Mobile: 970-570-9535





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

April 10, 2021

RE:

Characterization & Remediation Workplan

Incident #: nAPP2036563650

AEP #: 12042020-1430-dc

Location: Merchant "B" Pad/Merchant State Unit 604H

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 characterization report and remediation and restoration workplan for the above referenced incident. The release occurred on December 4, 2020 from an accidental hose disconnect between the frac tanks and blender hopper during fracking operations. The calculated volume of released treated produced water was 23.2 barrels. Drilling and completion operations delayed characterization efforts and a request for extension was submitted to NMOCD on March 23, 2021.

The release was contained on an active production pad for oil and gas operations and occurred on private surface. The coordinates of the release point are 32.4415458, -103.5433673 (Lat, Long; NAD83). The release did not impact surface or groundwater.



Figure 1: Photo of release area from northern extent viewing southwest.
Date/Time: 2020-12-11 15:01:08. GPS: 32.4419039, -103.5433378

Incident #: nAPP2036563650

AEP #:12042020-1430-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 6-10).

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 and soil characterization points relative to the active production pad and the Merchant State Unit 604H wellhead (API 30-025-46699). The source of the release is located at 32.4415458, -103.5433673 (Lat, Long; NAD83). Table 1 contains the coordinates of the characterization points. The release extent covered an area of approximately 7,452 sq. ft.

1.2. Depth to Ground Water

Plate 2 shows the depth to water from nearby water wells. 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 Misc-396 (OSE Well CP-1411 POD 1) is approximately 0.59 miles west of the release extent with a depth to water of 800 ft (dated 10/14/2014).

Plate 3 shows the potentiometric surface reproduced from Open File Report -95¹ published by Geohydrology Associates, Inc for the Bureau of Land Management (BLM). As shown on Plate 3, potentiometric surface calculations indicate that the depth to water is approximately 128 feet below ground surface, where 128 feet = 3678 ft surface elevation – 3550 ft potentiometric surface.

Appendix A are the wells logs for nearby wells.

1.3. Wellhead Protection Area

Plate 4 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>

Incident #: nAPP2036563650

AEP #:12042020-1430-dc

1.4. Distance to Nearest Significant Water Course

Plate 5 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 site used for oil and gas operations.

Hand auger during the collection of characterization samples showed the lithology as:

0 - 1 ft : Caliche Pad.

1 – 2 ft : Silty sand, medium brown, medium density.

Characterization sampling of the release was determined by collecting nine (9) soil samples along the perimeter of the release and three (3) samples within the release extent (Plate 1).

Table 2 summarizes the analytical results, where

- All samples at the perimeter of the release extent exhibit chloride and hydrocarbon concentrations below Table 1 of 19.15.29 NMAC closure criteria where depth to water is greater than 100 ft; and below closure criteria for an active production site (19.15.29.12.C.(2) NMAC).
 - BTEX and Benzene concentrations were below laboratory detection levels.
 - The highest chloride concentration was at CB-01 at the surface exhibiting 1,550 mg/kg.
 - The highest TPH (GRO+DRO+MRO) concentration was at CB-01 at the surface exhibiting <44.2 mg/kg.
- All samples within the release extent exhibit chloride and hydrocarbon concentrations below Table 1 of 19.15.29 NMAC closure criteria where depth to water is greater than 100 ft; and below closure criteria for an active production site (19.15.29.12.C.(2) NMAC).
 - The highest chloride concentration was at CB-10 at the surface exhibiting 2,960 mg/kg.
 - The highest TPH (GRO+DRO+MRO) concentration was at CB-09 at the surface exhibiting <141.4 mg/kg.
- Background samples of the caliche pad (CB-01.5, CB-1000, and CB-2000) collected along the northern extent of the production pad exhibit:
 - An average chloride concentration of 213 mg/kg
 - BTEX, Benzene, and TPH were below laboratory detection levels.

Laboratory Certificate of Analysis is located in Appendix B.

04/10/2021

Incident #: nAPP2036563650

AEP #:12042020-1430-dc

2. Remediation & Restoration Workplan

Soil samples will be collected for laboratory confirmation for constituents listed in Table 1 of 19.15.29 NMAC. Each soil sample shall not be representative of more than 400 square feet. Plate 11 shows the proposed sample grid with associated square footage. Plate 12 shows the proposed confirmation soil sample locations relative to the sample grid.

Each soil sample will vertically delineate to the following closure criteria, where depth to water is greater than 100-ft, as defined in Table 1 of 19.15.29 NMAC.

- Chloride < 20,000 mg/kg
- TPH (GRO + DRO + MRO) < 2,500 mg/kg
- TPH (GRO + DRO) < 1,000 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

Proposed sample depths at each sample location:

- 0 – 1 ft composite
- 1 – 2 ft composite, and
- a soil sample from 2 to 4 feet and at 4.5-feet below ground surface if field screening levels suggest an exceedance of the above listed closure criteria or if the two samples in the upper 2-feet exhibit an increase in field screening levels.

It is anticipated that confirmation sampling will meet closure criteria for on-site use of an active production pad. Therefore, no remediation is expected; and volume of excavated material is zero. After confirmation sampling, the surface will be restored to an active production site.

If confirmation sample results exhibit concentrations exceeding the above closure criteria, we will submit a revised remediation and restoration workplan.

Confirmation sampling will begin within 30-days of workplan approval. If confirmation samples meet the closure standards referenced in Table 1 of 19.15.29 NMAC, we will submit a closure report within 45-days of laboratory results.

04/10/2021

Incident #: nAPP2036563650
AEP #:12042020-1430-dc

When the production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D

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
Merchant Livestock

04/10/2021

Tables



Table 1
Sample Point Coordinates
Merchant "B" Pad/Merchant State Unit 604H

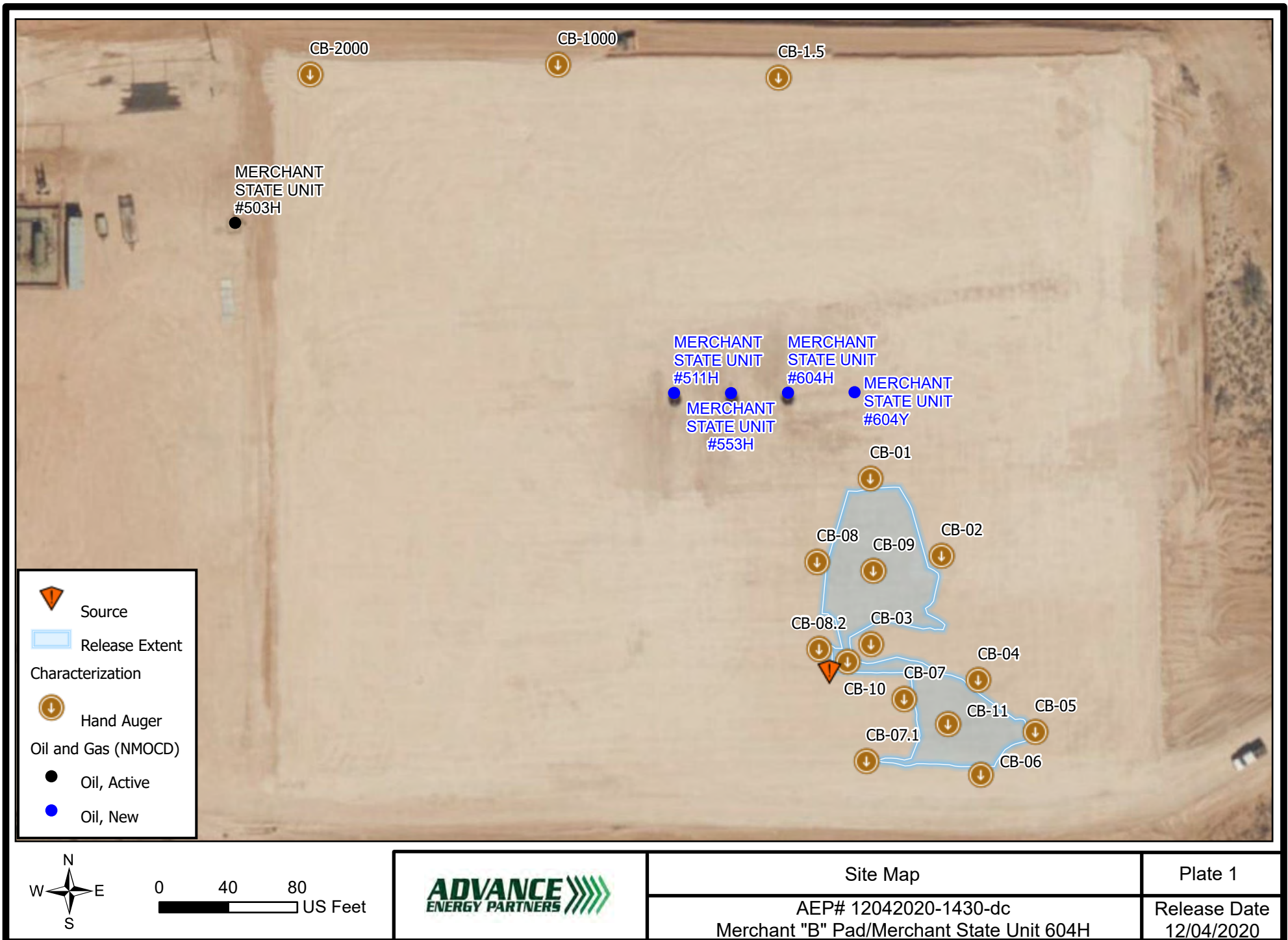
Sample Point	Type	Latitude	Longitude
CB-01	Characterization	32.44185816	-103.5432968
CB-02	Characterization	32.44173437	-103.5431643
CB-03	Characterization	32.44159487	-103.5432974
CB-04	Characterization	32.44153639	-103.5430971
CB-05	Characterization	32.4414533	-103.5429906
CB-06	Characterization	32.44138558	-103.543093
CB-07	Characterization	32.44150695	-103.5432359
CB-07.1	Characterization	32.44140836	-103.5433081
CB-08	Characterization	32.44172611	-103.5433979
CB-08.2	Characterization	32.4415874	-103.5433956
CB-09	Characterization	32.44171155	-103.5432923
CB-10	Characterization	32.44156666	-103.5433417
CB-11	Characterization	32.44146658	-103.5431541
CB-1.5	Background	32.4424977	-103.5434637
CB-1000	Background	32.44252115	-103.5438774
CB-2000	Background	32.44250814	-103.5443431

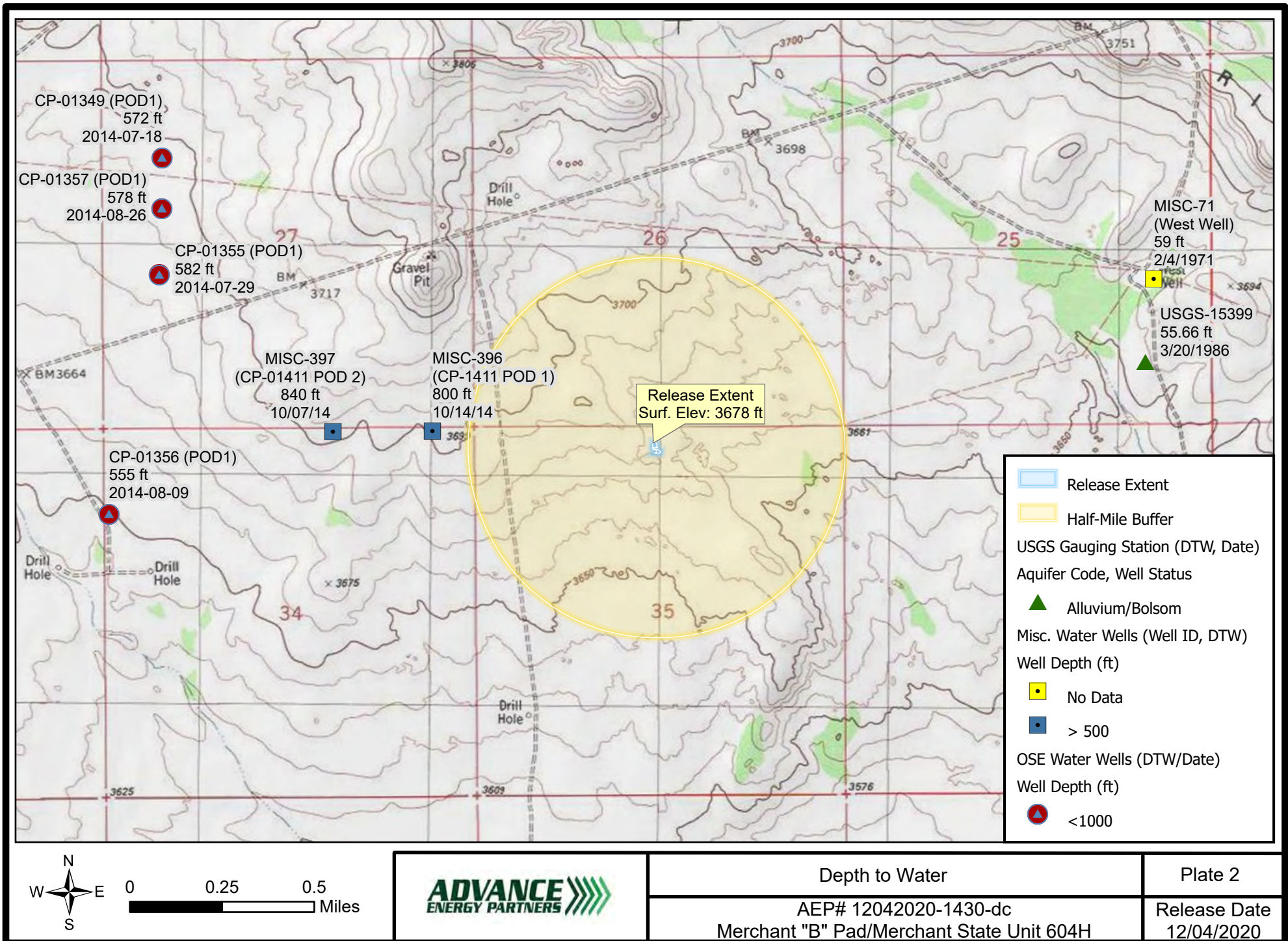
Table 2
Summary of Analytical

Sample ID	Date	Area	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	In Use (Yes/No)	EC (field) mS/cm	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
CB-01	3/13/2021	Perimeter	0.00			Y	2.43	1550	<34.2	<44.2	<0.05	<0.3	Caliche
CB-01	3/13/2021	Perimeter	1.00			Y	0.20	160	<20	<30	<0.05	<0.3	Silty Sand
CB-02	3/13/2021	Perimeter	0.00			Y	0.71	528	<20	<30	<0.05	<0.3	Caliche
CB-02	3/13/2021	Perimeter	1.00			Y	0.15	80	<20	<30	<0.05	<0.3	Silty Sand
CB-03	3/14/2021	Perimeter	0.00			Y	0.78	640	<20	<30	<0.05	<0.3	Caliche
CB-03	3/14/2021	Perimeter	1.00			Y	0.50	336	<20	<30	<0.05	<0.3	Caliche
CB-03	3/14/2021	Perimeter	2.00			Y	0.18	112	<20	<30	<0.05	<0.3	Silty Sand
CB-04	3/14/2021	Perimeter	0.00			Y	0.43	368	<20	<30	<0.05	<0.3	Caliche
CB-04	3/14/2021	Perimeter	1.00			Y	0.12	64	<20	<30	<0.05	<0.3	Silty Sand
CB-05	3/14/2021	Perimeter	0.00			Y	0.37	336	<20	<30	<0.05	<0.3	Caliche
CB-05	3/14/2021	Perimeter	1.00			Y	0.08	48	<20	<30	<0.05	<0.3	Silty Sand
CB-06	3/14/2021	Perimeter	0.00			Y	0.75	672	<20	<30	<0.05	<0.3	Caliche
CB-06	3/14/2021	Perimeter	1.00			Y	0.06	48	<20	<30	<0.05	<0.3	Silty Sand
CB-07	3/14/2021	Perimeter	0.00			Y	1.82	1920	<20	<30	<0.05	<0.3	Caliche
CB-07	3/14/2021	Perimeter	1.00			Y	0.45	352	<20	<30	<0.05	<0.3	Caliche
CB-07.1	3/14/2021	Perimeter	0.00			Y	0.44	256	<20	<30	<0.05	<0.3	Caliche
CB-07.1	3/14/2021	Perimeter	1.00			Y	0.19	80	<20	<30	<0.05	<0.3	Silty Sand
CB-08	3/14/2021	Perimeter	0.00			Y	2.47	608	<20	<30	<0.05	<0.3	Caliche
CB-08	3/14/2021	Perimeter	1.00			Y	0.34	208	<20	<30	<0.05	<0.3	Silty Sand
CB-08	3/14/2021	Perimeter	2.00			Y	0.11	32	<20	<30	<0.05	<0.3	Silty Sand
CB-08.2	3/14/2021	Perimeter	0.00			Y	0.46	304	<20	<30	<0.05	<0.3	Caliche
CB-08.2	3/14/2021	Perimeter	1.00			Y	0.14	32	<20	<30	<0.05	<0.3	Silty Sand
CB-09	3/14/2021	Release	0.00			Y	0.85	736	<87.9	<141.4	<0.05	<0.3	Caliche
CB-09	3/14/2021	Release	1.00			Y	0.18	48	<20	<30	<0.05	<0.3	Silty Sand
CB-10	3/14/2021	Release	0.00			Y	2.69	2960	<20	<30	<0.05	<0.3	Caliche
CB-10	3/14/2021	Release	1.00			Y	0.97	704	<20	<30	<0.05	<0.3	Caliche
CB-11	3/14/2021	Release	0.00			Y	0.36	160	<20	<30	<0.05	<0.3	Caliche
CB-11	3/14/2021	Release	1.00			Y	0.08	32	<20	<30	<0.05	<0.3	Silty Sand
CB-01.5	3/13/2021	Background	0.00			Y	0.61	480	<20	<30	<0.05	<0.3	Caliche
CB-01.5	3/13/2021	Background	1.00			Y	0.10	32	<20	<30	<0.05	<0.3	Silty Sand
CB-1000	3/15/2021	Background		0.00	0.25	Y	0.58	384	<20	<30	<0.05	<0.3	Caliche
CB-1000	3/15/2021	Background		0.25	0.75	Y	0.14	64	<20	<30	<0.05	<0.3	Caliche
CB-2000	3/15/2021	Background		0.00	0.25	Y	0.39	240	<20	<30	<0.05	<0.3	Caliche
CB-2000	3/15/2021	Background		0.25	0.75	Y	0.15	80	<20	<30	<0.05	<0.3	Caliche

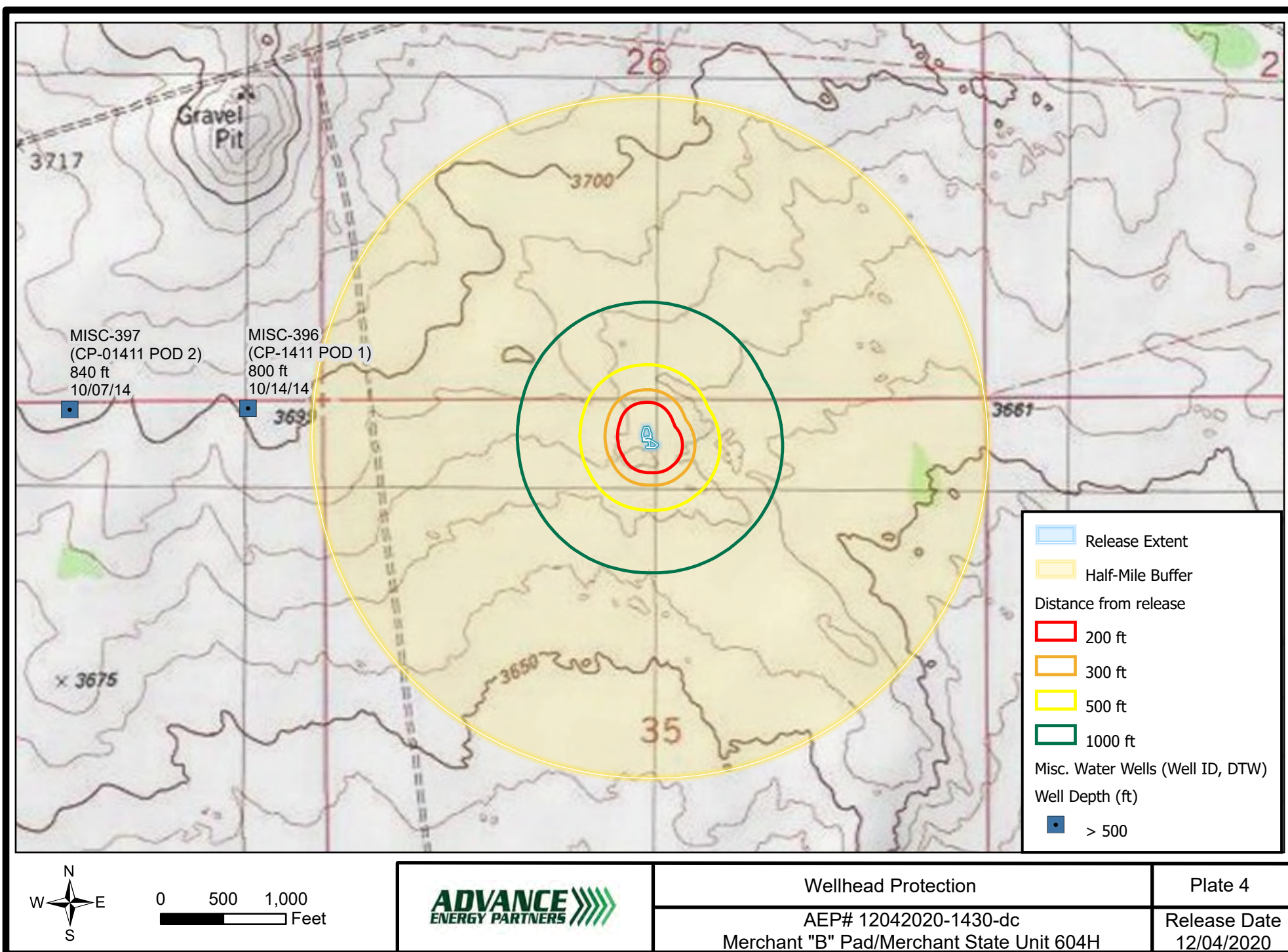
Plates

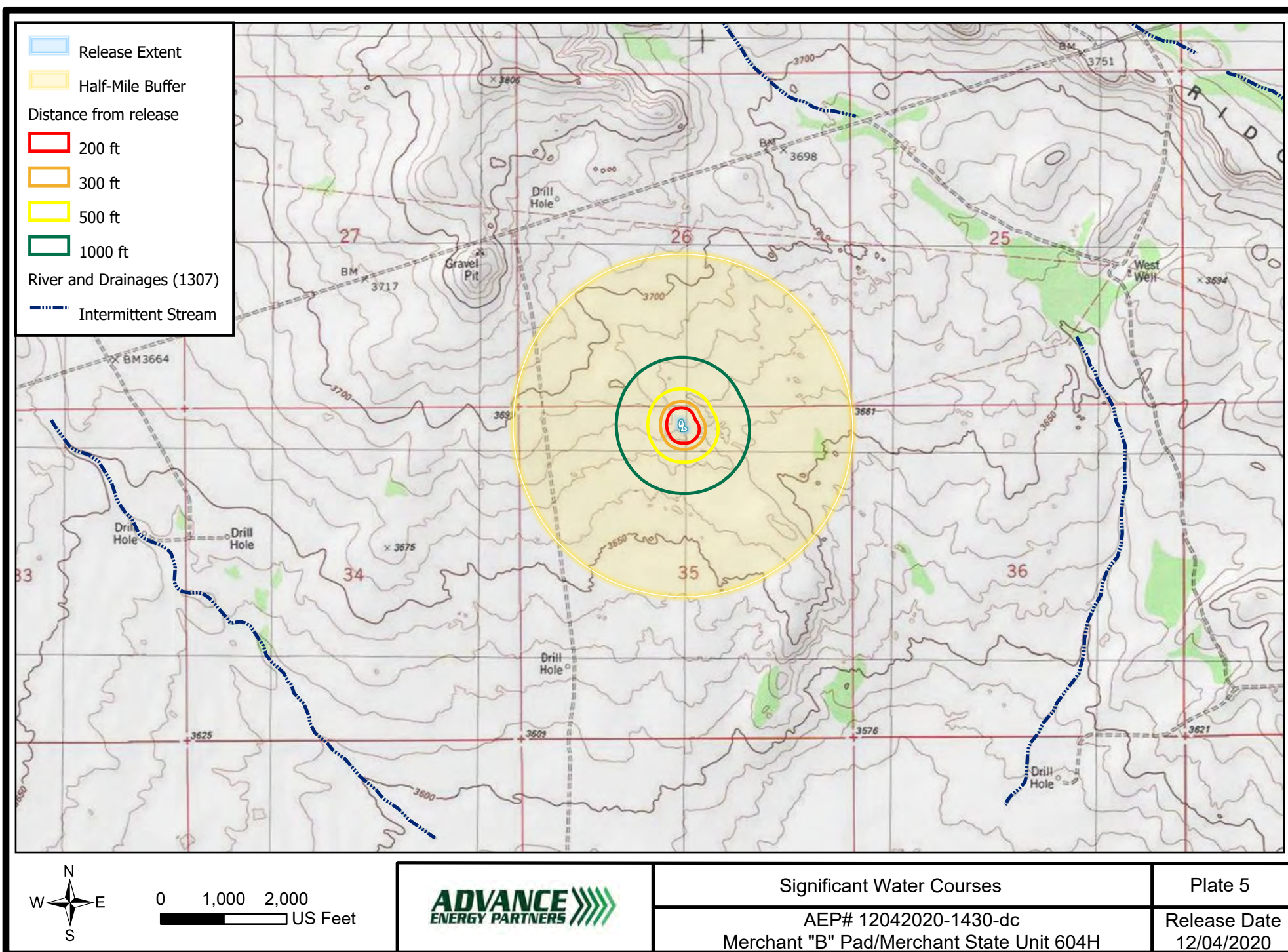


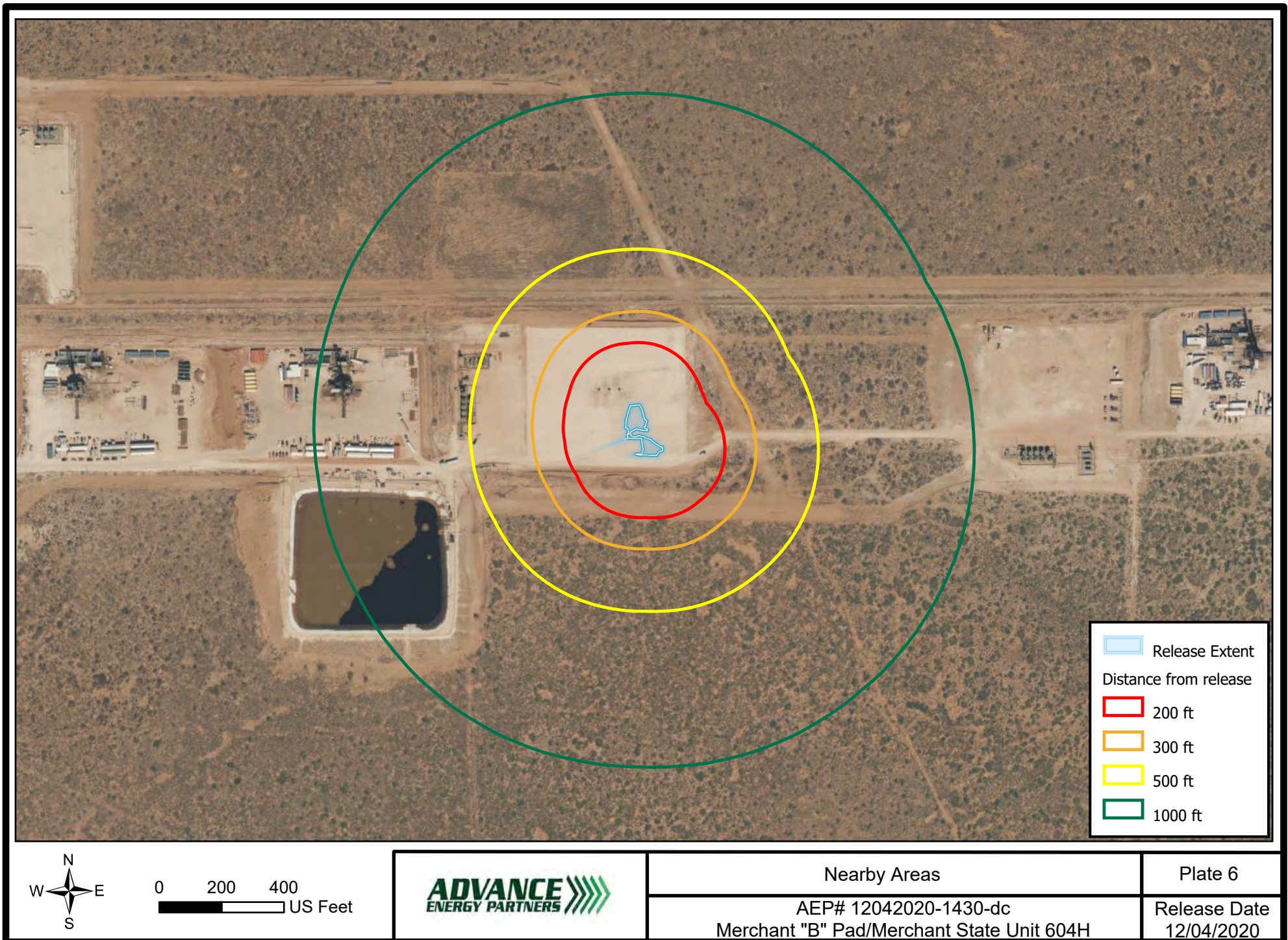


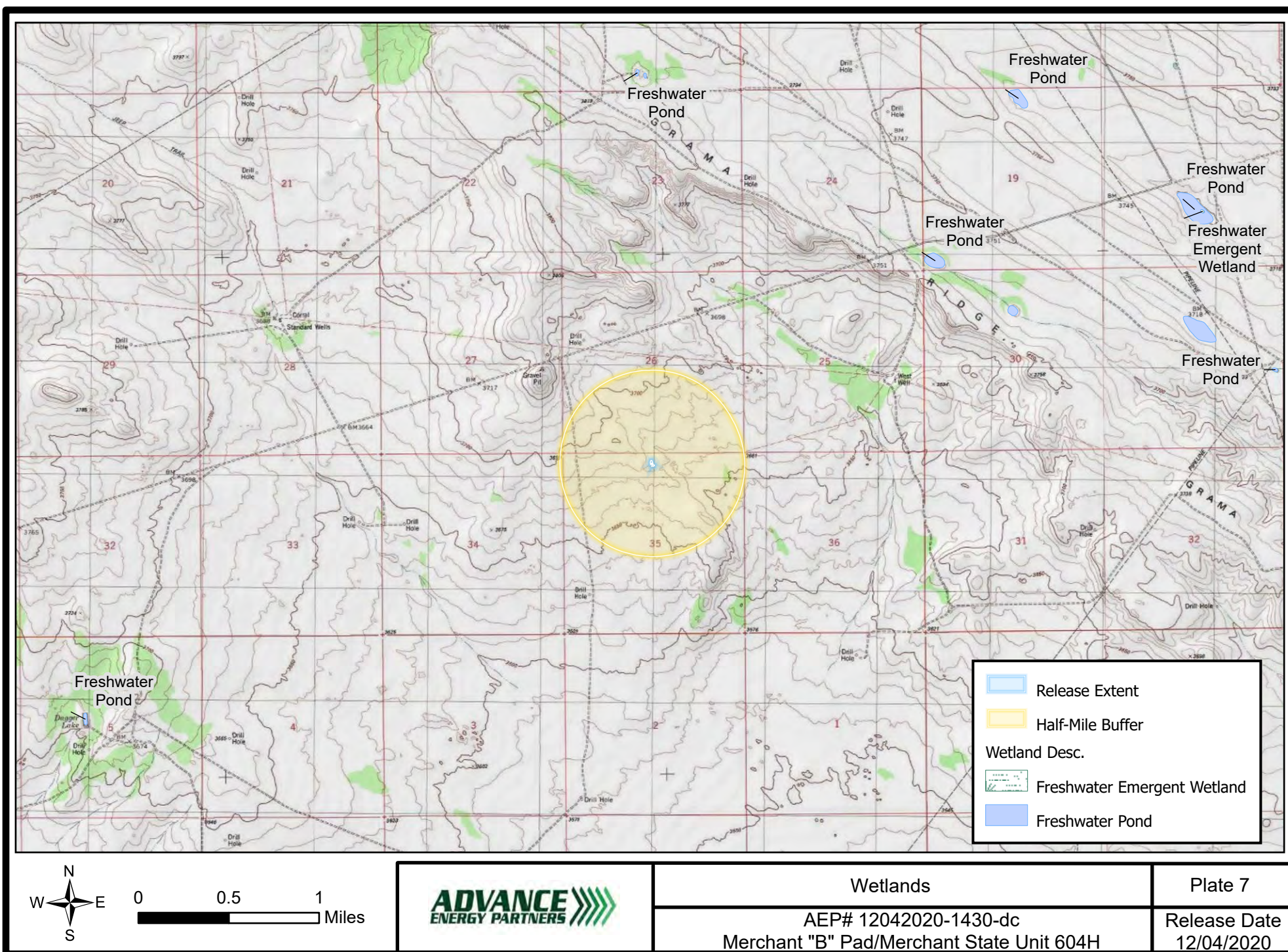




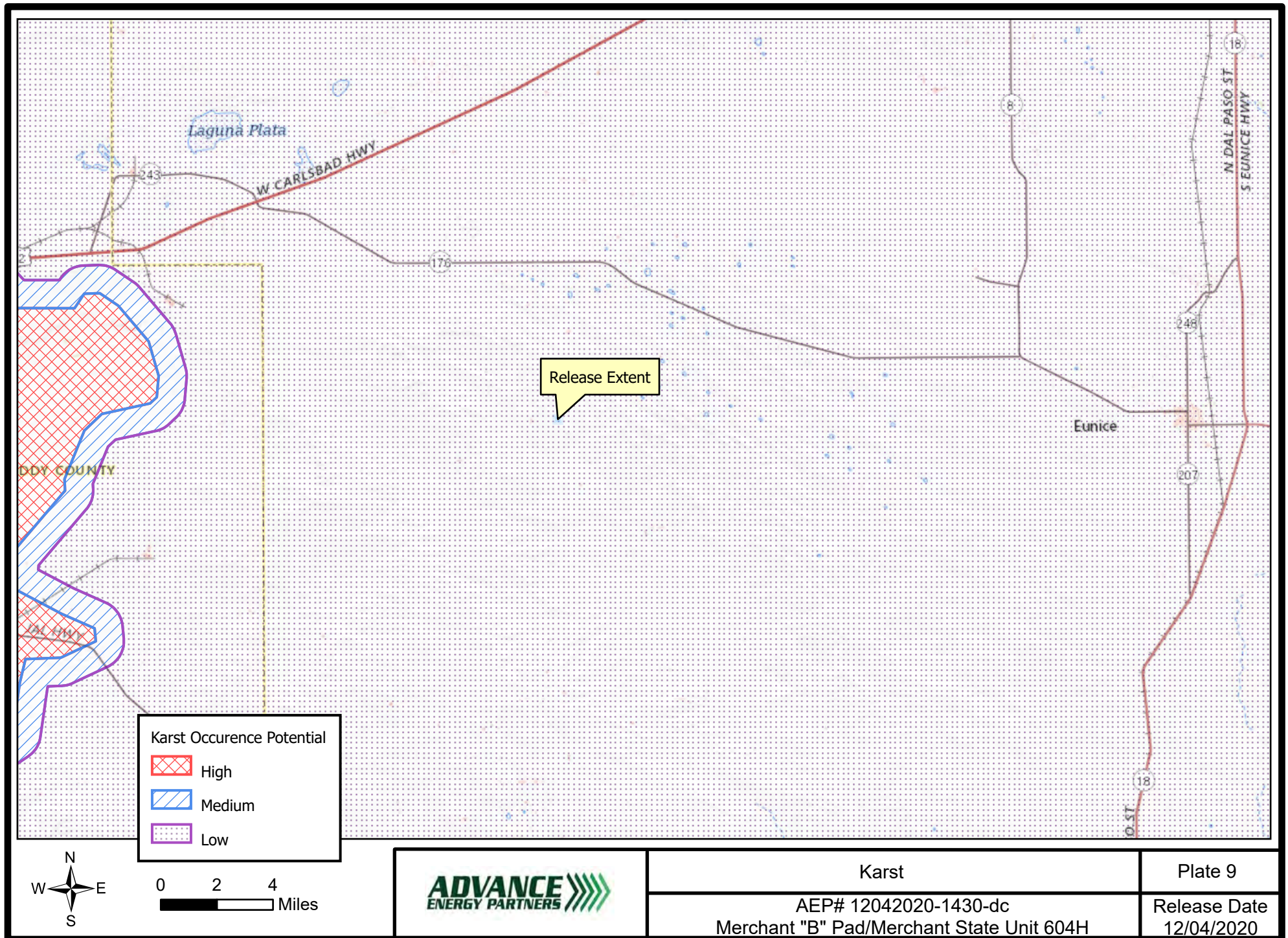


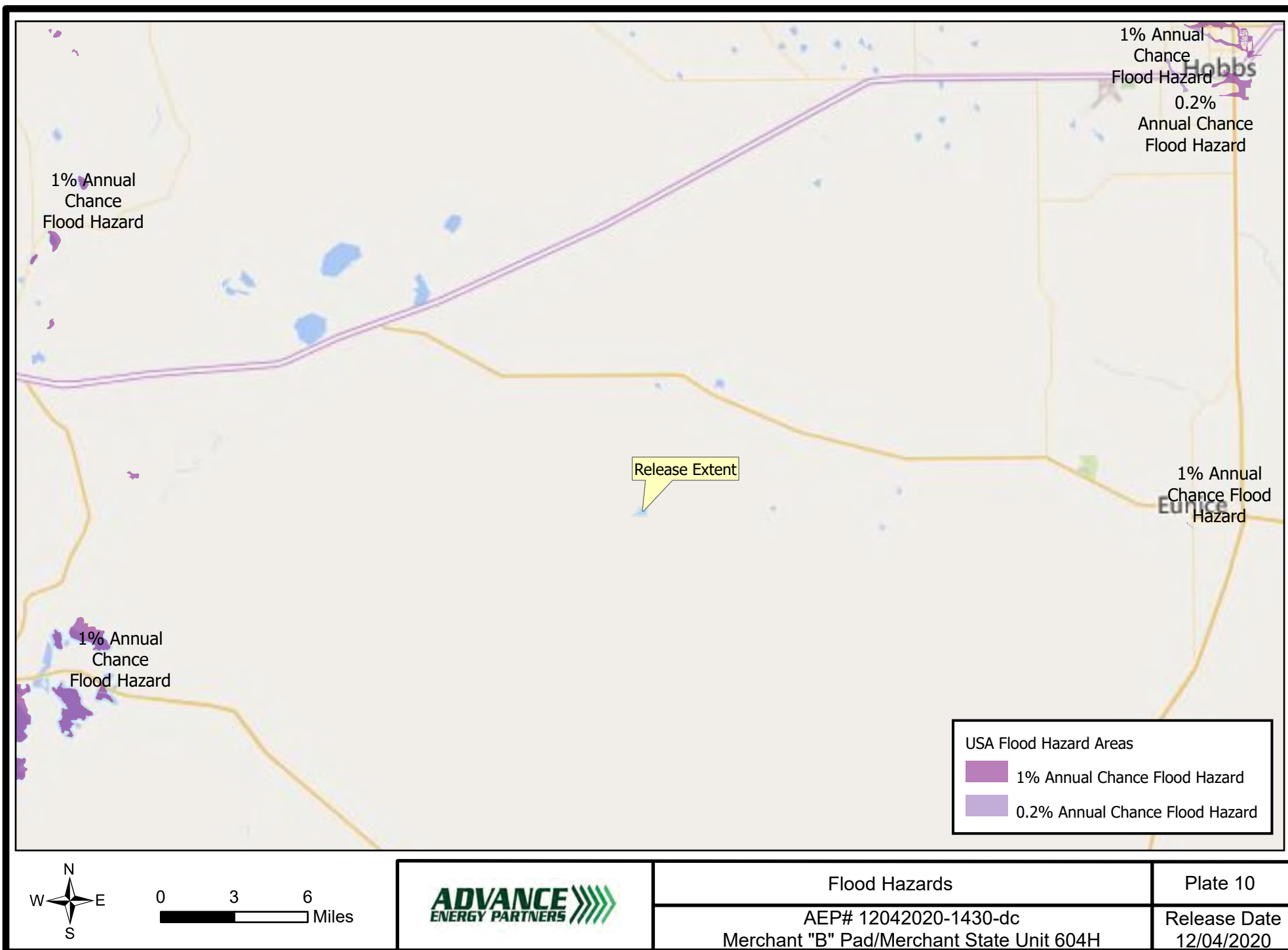


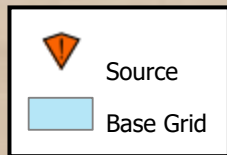
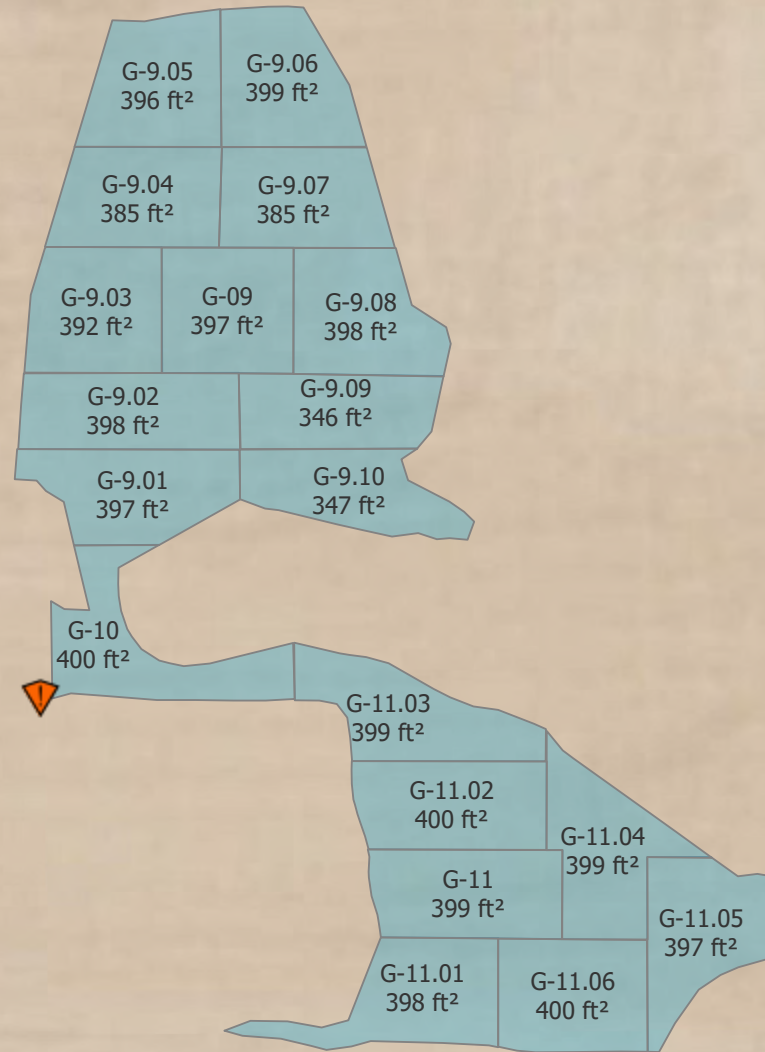












0 20 40 US Feet

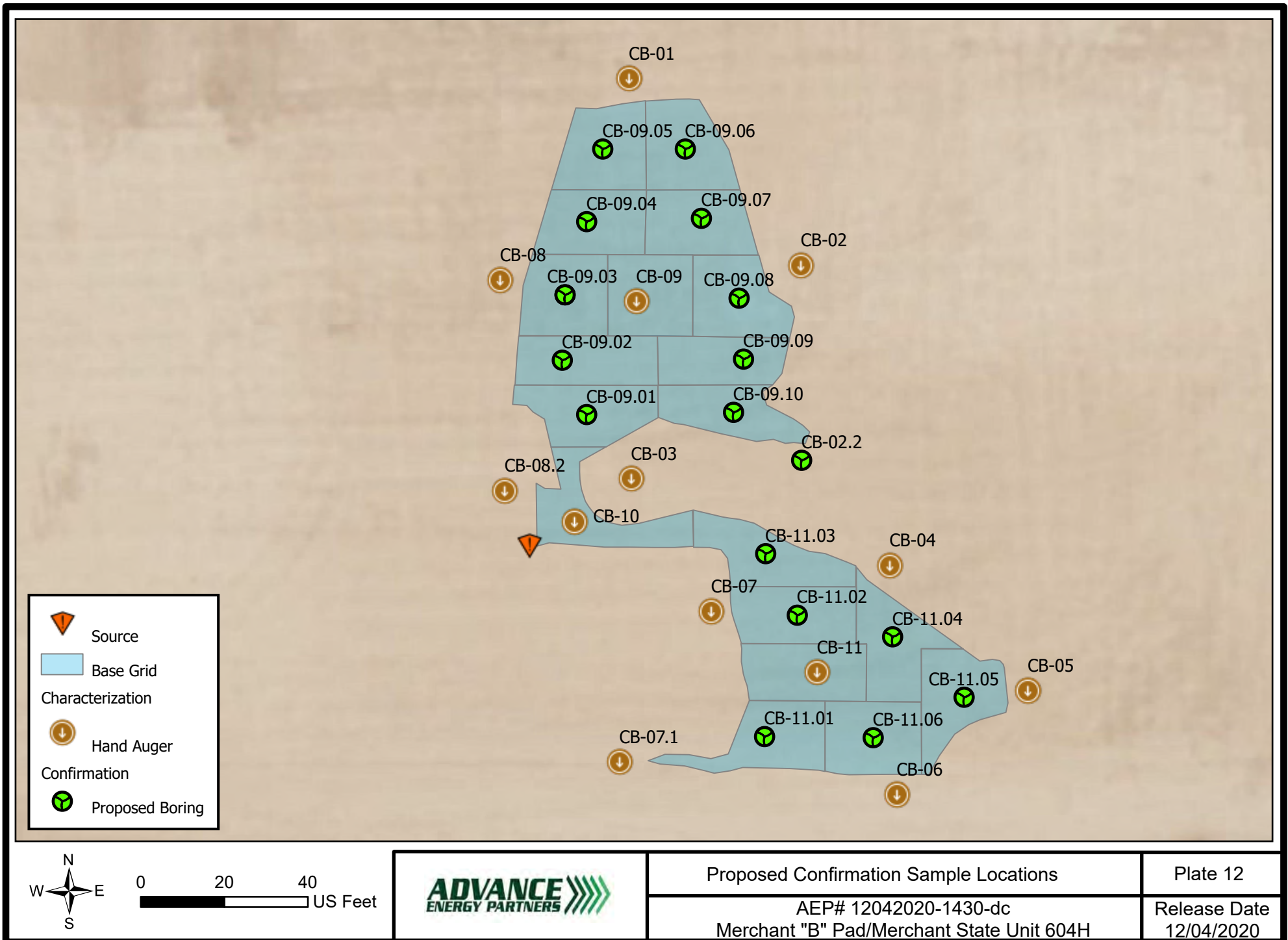


Confirmation Sampling Grid Size

AEP# 12042020-1430-dc
Merchant "B" Pad/Merchant State Unit 604H

Plate 11

Release Date
12/04/2020



Appendix A


Water Well Logs





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
	C 02096	2	3	14	22S	32E		627204	3584464* 

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

*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)							
		(quarters are smallest to largest)						(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

STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
Mailing Address P.O. Box 548 Carlsbad
County of Eddy, State of New Mexico
2. Source of water supply shallow
(artesian or shallow water aquifer)
3. 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 _____
4. Description of well: date drilled 1952 driller _____ depth 223 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%
5. Quantity of water appropriated and beneficially used up to 3
(~~acre feet per annum~~) (acre feet per annum)
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 re-
verse side of this form and submitted in evidence of 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. 1979Subscribed and sworn to before me this 12thMy commission expires March 2, 1980

Notary Public

FILED

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.

563298

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 $2\frac{1}{2}$ 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

*70 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



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 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
Log File Date: 08/04/2014	PCW Rcv Date:
Pump Type:	Source: Artesian
Casing Size: 7.00	Depth Well: 1188 feet
	Estimated Yield:
	Depth Water: 572 feet

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

Casing Perforations:	Top	Bottom
	721	1188



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
SOSWELL, 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 * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	33	58.3 W				
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)	Thread & Collar	6.366"	23 lbs.	1/8"
			317.96 perforated					
			on bottom of liner					
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	Expi	215.33E.27.312			PAGE 1 OF 2

[illegible]

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1355	POD NUMBER	1
LOCATION	215.33 E 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 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 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		


FOR OSE INTERNAL USE

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

FILE NUMBER	CP-1355	POD NUMBER	1	TRN NUMBER	549450
LOCATION	Exp	21S.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
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	
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:	
	<div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> 8/7/14 DATE </div> </div>	

FOR USE INTERNAL USE

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

FILE NUMBER	CP-1355	POD NUMBER	1	TRN NUMBER	549450
LOCATION	Exp1	215.33E.27.312			PAGE 2 OF 2



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 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
Log File Date: 08/25/2014	PCW Rcv Date:
Pump Type:	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.

3/5/19 1:52 PM

Page 1 of 1


POD SUMMARY - CP 01356 POD1



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

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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		
2. DRILLING & CASING INFORMATION	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 0.5	N		
		LONGITUDE 103	39	10.1	W		
	* ACCURACY REQUIRED: ONE TENTH OF A SECOND						
	* DATUM REQUIRED: WGS 84						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
3. ANNULAR MATERIAL	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)
	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
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	Trimmic	
	453	860	12.25	8/16 Silica Sand	285	Pour	

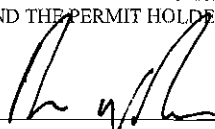
FOR OSE INTERNAL USE

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

FILE NO.	CP-1701	POD NO.	1	TRN NO.	619305
LOCATION	Expi	215.32E.35.31	WELL TAG ID NO.		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	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	5	5	Topsoil	Y	N	
	5	8	3	Caliche	Y	N	
	8	80	72	Tan/Red sandy caliche	Y	N	
	80	190	110	Red clay	Y	N	
	190	400	210	Tan/Red sandstone	Y	N	
	400	560	160	Red siltstone	Y	N	
	560	575	15	Red siltstone/Gyp	✓ Y	N	5.00
	575	750	175	Red siltstone	Y	N	
	750	770	20	Red siltstone/Gyp	✓ Y	N	25.00
	770	840	70	Red siltstone	Y	N	
	840	880	40	Red Shale	Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):		
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					30.00		

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:
	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:	
	 Bryce Wallace	12/10/2018
	SIGNATURE OF DRILLER / PRINT SIGNED NAME	DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. CP-1701	POD NO. 1	TRN NO. 419305
LOCATION Expl 215.32E.35.31	WELL TAG ID NO. —	PAGE 2 OF 2

Appendix B

Certificate of Analysis





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

March 24, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MSU 604H

Enclosed are the results of analyses for samples received by the laboratory on 03/19/21 12:15.

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:	03/19/2021	Sampling Date:	03/13/2021
Reported:	03/24/2021	Sampling Type:	Soil
Project Name:	MSU 604H	Sampling Condition:	** (See Notes)
Project Number:	12042020-1430-DC	Sample Received By:	Yvonne Muniz
Project Location:	NONE GIVEN		

Sample ID: CB - 01 0' (H210700-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2021	ND	1.97	98.3	2.00	15.3	
Toluene*	<0.050	0.050	03/23/2021	ND	2.01	101	2.00	15.3	
Ethylbenzene*	<0.050	0.050	03/23/2021	ND	1.94	97.1	2.00	16.9	
Total Xylenes*	<0.150	0.150	03/23/2021	ND	6.01	100	6.00	17.1	
Total BTEX	<0.300	0.300	03/23/2021	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	1550	16.0	03/23/2021	ND	400	100	400	7.69		

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	24.2	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 42.2-156

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*=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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 01 1' (H210700-02)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	03/23/2021	ND	400	100	400	7.69		

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.0 % 42.2-156

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*=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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 01.5 0' (H210700-03)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	480	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 74.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.4 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 01.5 1' (H210700-04)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	03/23/2021	ND	400	100	400	7.69		

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.8 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 02 0' (H210700-05)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTEx	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	528	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.8 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 02 1' (H210700-06)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTEx	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	80.0	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.6 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 03 0' (H210700-07)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTEx	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	640	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.3 % 42.2-156

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ADVANCE ENERGY PARTNERS
 ANDREW PARKER
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 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 03 1' (H210700-08)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	336	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/19/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/19/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/19/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.9 % 42.2-156

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 03 2' (H210700-09)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.3 % 42.2-156

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 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 04 0' (H210700-10)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTEx	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	368	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.5 % 42.2-156

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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 04 1' (H210700-11)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTEx	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	03/23/2021	ND	400	100	400	7.69	

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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.1 % 42.2-156

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Analytical Results For:

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 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 05 0' (H210700-12)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	336	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 74.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
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 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 05 1' (H210700-13)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 42.2-156

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Analytical Results For:

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 06 0' (H210700-14)

BTX 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	03/22/2021	ND	2.17	108	2.00	0.0276	
Toluene*	<0.050	0.050	03/22/2021	ND	2.13	107	2.00	0.788	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.06	103	2.00	0.0126	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	6.09	101	6.00	0.161	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	672	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.5 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 06 1' (H210700-15)

BTX 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	03/22/2021	ND	2.17	108	2.00	0.0276	
Toluene*	<0.050	0.050	03/22/2021	ND	2.13	107	2.00	0.788	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.06	103	2.00	0.0126	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	6.09	101	6.00	0.161	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.8 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
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 11490 WESTHEIMER ROAD, STE. 950
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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 07 0' (H210700-16)

BTX 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	03/22/2021	ND	2.17	108	2.00	0.0276	
Toluene*	<0.050	0.050	03/22/2021	ND	2.13	107	2.00	0.788	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.06	103	2.00	0.0126	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	6.09	101	6.00	0.161	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1920	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.8 % 42.2-156

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Analytical Results For:

ADVANCE ENERGY PARTNERS
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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 07 1' (H210700-17)

BTX 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	03/22/2021	ND	2.17	108	2.00	0.0276	
Toluene*	<0.050	0.050	03/22/2021	ND	2.13	107	2.00	0.788	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.06	103	2.00	0.0126	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	6.09	101	6.00	0.161	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	352	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.5 % 42.2-156

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Analytical Results For:

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 07.1 0' (H210700-18)

BTX 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	03/23/2021	ND	2.06	103	2.00	5.51	
Toluene*	<0.050	0.050	03/23/2021	ND	2.01	101	2.00	4.61	
Ethylbenzene*	<0.050	0.050	03/23/2021	ND	1.93	96.5	2.00	6.08	
Total Xylenes*	<0.150	0.150	03/23/2021	ND	5.67	94.5	6.00	6.50	
Total BTX	<0.300	0.300	03/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.7 % 42.2-156

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ADVANCE ENERGY PARTNERS
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 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 07.1 1' (H210700-19)

BTX 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	03/23/2021	ND	2.06	103	2.00	5.51	
Toluene*	<0.050	0.050	03/23/2021	ND	2.01	101	2.00	4.61	
Ethylbenzene*	<0.050	0.050	03/23/2021	ND	1.93	96.5	2.00	6.08	
Total Xylenes*	<0.150	0.150	03/23/2021	ND	5.67	94.5	6.00	6.50	
Total BTX	<0.300	0.300	03/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	80.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 08 0' (H210700-20)

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	03/23/2021	ND	2.06	103	2.00	5.51	
Toluene*	<0.050	0.050	03/23/2021	ND	2.01	101	2.00	4.61	
Ethylbenzene*	<0.050	0.050	03/23/2021	ND	1.93	96.5	2.00	6.08	
Total Xylenes*	<0.150	0.150	03/23/2021	ND	5.67	94.5	6.00	6.50	
Total BTEx	<0.300	0.300	03/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	608	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.3 % 42.2-156

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Analytical Results For:

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

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 08 1' (H210700-21)

BTX 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	03/23/2021	ND	2.06	103	2.00	5.51	
Toluene*	<0.050	0.050	03/23/2021	ND	2.01	101	2.00	4.61	
Ethylbenzene*	<0.050	0.050	03/23/2021	ND	1.93	96.5	2.00	6.08	
Total Xylenes*	<0.150	0.150	03/23/2021	ND	5.67	94.5	6.00	6.50	
Total BTX	<0.300	0.300	03/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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Analytical Results For:

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

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 08 2' (H210700-22)

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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTEx	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.7 % 42.2-156

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

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 08.2 0' (H210700-23)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	304	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 08.2 1' (H210700-24)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.3 % 42.2-156

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 09 0' (H210700-25)

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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTEx	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	736	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	77.9	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	53.5	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.5 % 42.2-156

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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 09 1' (H210700-26)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.6 % 42.2-156

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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 10 0' (H210700-27)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2960	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.6 % 42.2-156

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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 10 1' (H210700-28)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	704	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.9 % 42.2-156

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 11 0' (H210700-29)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.8 % 42.2-156

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Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 11 1' (H210700-30)

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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTEx	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	223	112	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	221	111	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.5 % 42.2-156

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 Fax To: (832) 672-4609

Received: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/15/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 1000 0-0.25' (H210700-31)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	384	16.0	03/23/2021	ND	400	100	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	03/22/2021	ND	206	103	200	7.18	
DRO >C10-C28*	38.0	10.0	03/22/2021	ND	209	105	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 63.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.1 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/15/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 1000 0.25-0.75' (H210700-32)

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	03/22/2021	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11		
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51		
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18		
Total BTEX	<0.300	0.300	03/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	03/23/2021	ND	400	100	400	3.92	

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	03/22/2021	ND	206	103	200	7.18	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	209	105	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 71.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.4 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/15/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 2000 0-0.25' (H210700-33)

BTX 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	03/22/2021	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11	
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18	
Total BTX	<0.300	0.300	03/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	240	16.0	03/23/2021	ND	400	100	400	3.92	

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	03/22/2021	ND	206	103	200	7.18	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	209	105	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 58.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 58.9 % 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: 03/19/2021
 Reported: 03/24/2021
 Project Name: MSU 604H
 Project Number: 12042020-1430-DC
 Project Location: NONE GIVEN

Sampling Date: 03/15/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Yvonne Muniz

Sample ID: CB - 2000 0.25-0.75' (H210700-34)

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	03/22/2021	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	03/22/2021	ND	2.07	104	2.00	3.11		
Ethylbenzene*	<0.050	0.050	03/22/2021	ND	2.00	100	2.00	3.51		
Total Xylenes*	<0.150	0.150	03/22/2021	ND	5.92	98.6	6.00	3.18		
Total BTEX	<0.300	0.300	03/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	03/23/2021	ND	400	100	400	3.92		

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	03/22/2021	ND	206	103	200	7.18	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	209	105	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please see ...

[illegible]

- + Cardinal cannot accept verbal challenges. i.e. those who are not in the hierarchy



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		P.O. #: 12042020-1430-1	
Project Manager: Andrew Parker		Company: AEP	
Address: On-File		Attn: Send to	
City:	State:	Address: Aparker@advance	
Phone #:	Fax #:	City: energypartners.com	
Project #:	Project Owner:	State:	Zip:
Project Name: 12042020-1430-1		Phone #:	
Project Location: MSA 604H		Fax #:	
Sampler Name: Jacob Saenz		PRESERV	SAMPLING
FOR LAB USE ONLY			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
1212700												
21 CB-08	1F1							3/14/21	12:45			
22 CB-08	2F1								13:00			
23 CB-08-2	1F1								13:15			
24 CB-08-2	1F1								13:30			
25 CB-09	0F1								13:45			
26 CB-09	1F1								14:00			
27 CB-10	0F1								14:15			
28 CB-10	1F1								14:30			
29 CB-11	0F1								14:45			
30 CA-11	1F1											

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Relinquished By: Andrew Date: 3-19 Received By: Yvonne Mueniz Date: 3/19/21

Delivered By: (Circle One) #113 7-3 Sample Condition: Yes Checked By: Yvonne

Sampler - UPS - Bus - Other: #113 7-3 Phone Result: ☐ Yes ☐ No Add'l Phone #: Yvonne

REMARKS:



ANALYSIS REQUEST

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

Incident ID	nAPP2036563650
District RP	
Facility ID	
Application ID	

Remediation Plan

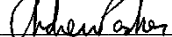
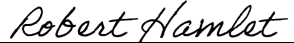
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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 ParkerTitle: Env. ScientistSignature: Date: April 10, 2021email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**Received by: Robert Hamlet Date: 7/19/2021☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 7/19/2021

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 25949

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 25949
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: 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 (>100'). Closure samples should be representative of no more than 400 ft2. 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.	7/19/2021