

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	nAPP2136430670
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: Randy Black	Contact Telephone: 832-672-4700
Contact email: rblack@advanceenergypartners.com	Incident # (assigned by OCD) nAPP2136430670
Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077	

### Location of Release Source

Latitude 32.449928 \_\_\_\_\_ Longitude -103.60744 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dagger State SWD #001	Site Type Salt Water Disposal well
Date Release Discovered 12/29/2021 @ 12:15 pm	API# (if applicable) 30-025-45815

Unit Letter	Section	Township	Range	County
G	30	21S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.6 bbls	Volume Recovered (bbls) 1 bbl
	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

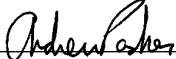
Corroded 1/2 inch valve failure on Train 2 Discharge line at the wellhead. On the crown from the injection line.

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

## 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>12/30/2021</u>
email: <u>aparker@advanceenergypartners.com</u>	Telephone: <u>970-570-9535</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>2/13/2022</u>

NAPP2136430670

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	1029.50
Input	Porosity: typically is .35 to .40 for most soils	[ - ]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[ - ]	0.15
Output	volume of fluid	[feet^3]	54.0
		[gal]	404.3
		Barrels	9.6

From GIS

Sq. Ft      4118

Depth (ft)      0.25

Cu. Ft      1029.5

Cu. Yrds      38

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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? <b><u>Plates 2 &amp; 3</u></b>	<u>&gt;100</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? <b><u>Plate 4</u></b>	<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)? <b><u>Plate 4</u></b>	<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? <b><u>Plate 5</u></b>	<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? <b><u>Plate 4</u></b>	<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? <b><u>Plate 4</u></b>	<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? <b><u>Plate 4</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <b><u>Plate 6</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <b><u>Plate 7</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <b><u>Plate 8</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <b><u>Plate 9</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> 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

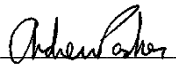
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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: January 31, 2022email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**Received by: Ramona MarcusDate: 2/13/2022

Incident ID	nAPP2136430670
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## Remediation Plan

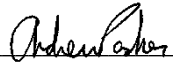
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ 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: January 21, 2022email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Ramona MarcusDate: 2/13/2022

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

QUESTIONS

Action 69602

**QUESTIONS**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	Dagger SWD 1 20211229-1215-water
Date Release Discovered	12/29/2021
Surface Owner	State

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Valve   Produced Water   Released: 10 BBL   Recovered: 1 BBL   Lost: 9 BBL ]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 69602

**QUESTIONS (continued)**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by 19.15.29.7(A) NMAC	<b>No, minor release.</b>
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, to whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, when	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	<i>Not answered.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	<a href="#">True</a>
The impacted area has been secured to protect human health and the environment	<i>Not answered.</i>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<i>Not answered.</i>
All free liquids and recoverable materials have been removed and managed appropriately	<i>Not answered.</i>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*



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ACKNOWLEDGMENTS

Action 69602

**ACKNOWLEDGMENTS**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS  
  
Action 69602

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
aparker	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/30/2021

**Andrew Parker**

---

**From:** Andrew Parker  
**Sent:** Thursday, January 13, 2022 7:17 AM  
**To:** Enviro, OCD, EMNRD  
**Cc:** Bratcher, Mike, EMNRD  
**Subject:** Incident number nAPP2136430670; 48 hour sampling notification 20211229-1215-water (Dagger SWD 1)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

NMOCD,

Per 19.15.29 NMAC, please accept this email as the 48 hour notice for initial characterization sampling at the Dagger SWD #1 for incident number nAPP2136430670. Characterization samples have the potential to be used for confirmation sampling for deferral of a release on an active production site used for oil and gas operations.

Regards,

Andrew Parker  
Environmental Scientist  
970-570-9535



---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Thursday, December 30, 2021 8:32 AM  
**To:** Andrew Parker <AParker@advanceenergypartners.com>  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 69602

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

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* (NOR), for incident ID (n#) nAPP2136430670, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2136430670, on all subsequent C-141 submissions and communications 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, or don't know why you have received this email, please contact us.

[ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)



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

January 30, 2022

RE:

Characterization & Remediation Workplan  
Incident #: nAPP2136430670  
AEP #: 20211229-1215-water  
Location: Dagger State SWD #1 (30-025-45815)

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 & restoration workplan for the above referenced incident. The release occurred on December 29, 2021 from the failure of a corroded 1/2 inch valve on the crown from the injection line to the wellhead. The calculated volume of released produced water was 9.6 barrels; one barrel was recovered.

The release was contained on an active production pad for oil and gas operations and occurred on State Trust Lands. The coordinates of the release point are 32.449928, -103.60744 (Lat, Long; NAD83). The release did not impact surface or groundwater.



Figure 1: Photo of release area from southern extent viewing north.  
Date/Time: 2021-12-29 13:54:00. GPS: 32.4497369 N, 103.6076533 W.

Incident #: nAPP2136430670  
AEP #:20211229-1215-water

## 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 2-9).

### 1.1. Site Map

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

Plate 1 shows the release extent and initial soil characterization points relative to the active production pad and the Dagger State SWD #1 well. The source of the release is located at 32.4415458, -103.5433673 (Lat, Long; NAD83). Table 1 contains the coordinates of the initial characterization sample points. The release extent covered an area of approximately 4,118 sq. ft.

### 1.2. Depth to Ground Water

In September/October 2021, Advance Energy initiated a depth-to-water boring program to determine whether depth-to-water is present in the upper 100-feet of the surface soil profile. Nine (9) boreholes were advanced between 103 to 105-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring to the subject release is located 0.21-miles northeast. No groundwater was detected within the upper 100-feet. Plate 2 is a map showing the location of the depth-to-water boring relative to the release extent. The borehole is identified as MISC-403 and is logged as CP-1882 in the OSE database. The driller log is located in Appendix A.

### 1.3. Wellhead Protection Area

Plate 3 shows that the release extent is not:

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

Incident #: nAPP2136430670  
AEP #:20211229-1215-water

#### **1.4. Distance to Nearest Significant Water Course**

Plate 4 shows that the release extent is not:

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

#### **1.5. Soil/Waste Characteristics**

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production site used for oil and gas operations.

Hand auger/split spoon sampling during the collection of the initial characterization samples showed the lithology as:

0 - 1 ft : Caliche Pad.

1 - 2 ft : Silty sand, reddish brown, medium density.

2 - 3 ft : Silty sand, reddish brown, dense.

Initial characterization sampling of the release was determined by collecting six (6) soil samples along the perimeter of the release and five (5) samples within the release extent (Plate 1). Soil sampling was limited to the upper 3 to 4-feet of the soil column.

Table 2 summarizes the analytical results, where

- All samples exhibit TPH, benzene, and BTEX concentrations below laboratory detection levels.
- The six (6) soil samples around the perimeter exhibited chloride concentrations <600 mg/kg.
- The five (5) soil samples within the release extent exhibited chloride concentrations below Closure Criteria for in-use on an active production site (19.15.29.12.C.(2) NMAC), where
  - 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
- All samples within the release extent were characterized to a depth of 3-feet below ground surface (bgs).
- The highest chloride concentration was at sample G-07 from 2 to 3 bgs that exhibited a concentration of 2,280 mg/kg.

Laboratory Certificate of Analysis is located in Appendix B.

01/30/2022

Incident #: nAPP2136430670  
AEP #:20211229-1215-water

## 2. Remediation & Restoration Workplan

Additional soil samples will be collected for laboratory confirmation for constituents listed in Table 1 of 19.15.29 NMAC to a depth of 4.5 feet bgs. Each soil sample shall not be representative of more than 350 square feet. Plate 10 shows the proposed sample grid with associated square footage. Plate 11 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.

01/30/2022

Incident #: nAPP2136430670  
AEP #:20211229-1215-water

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

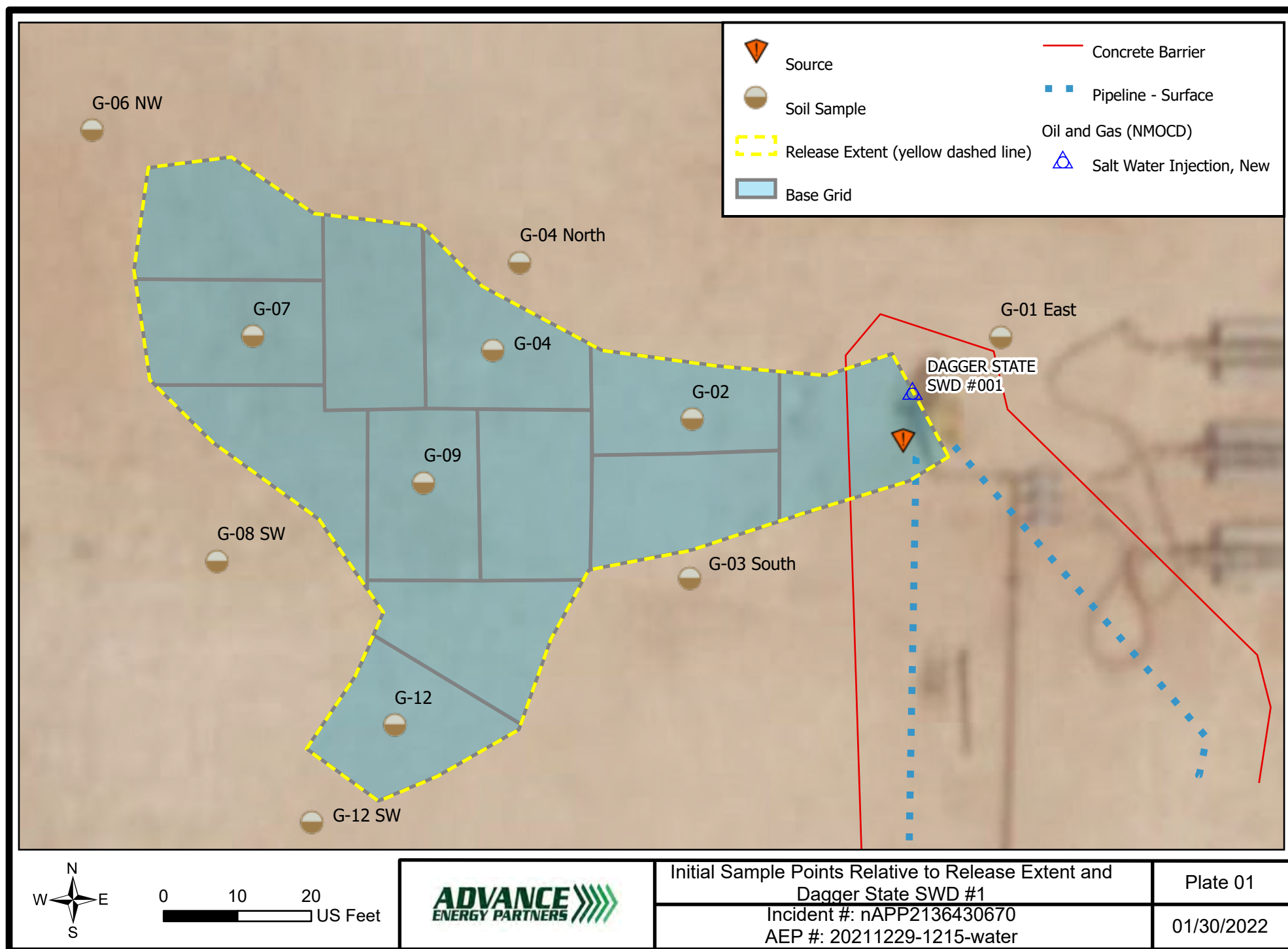
Copy: Shane McNeely, Ameredev II, LLC  
Floyd Hammond, Ameredev II, LLC

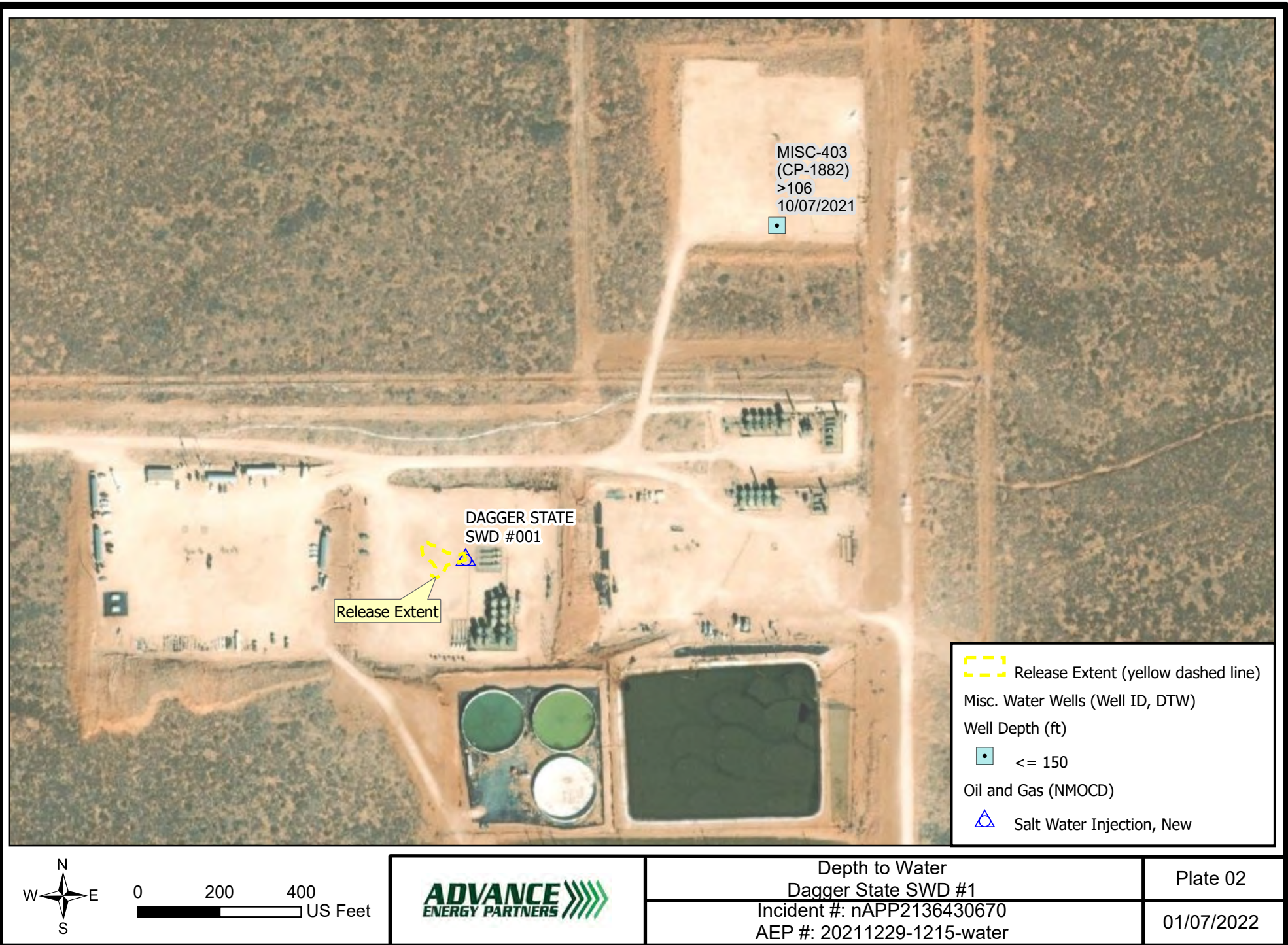
01/30/2022



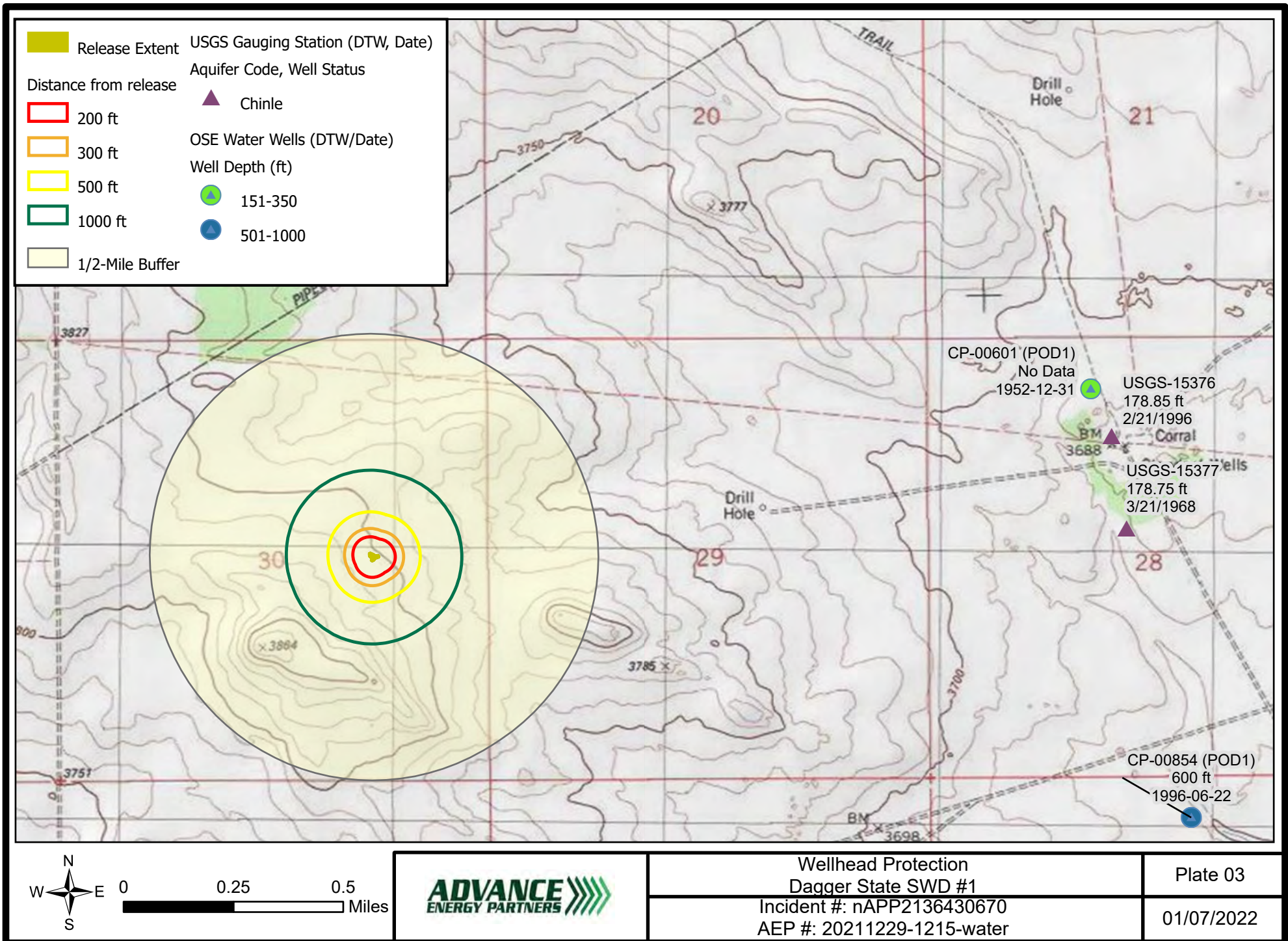
# Plates







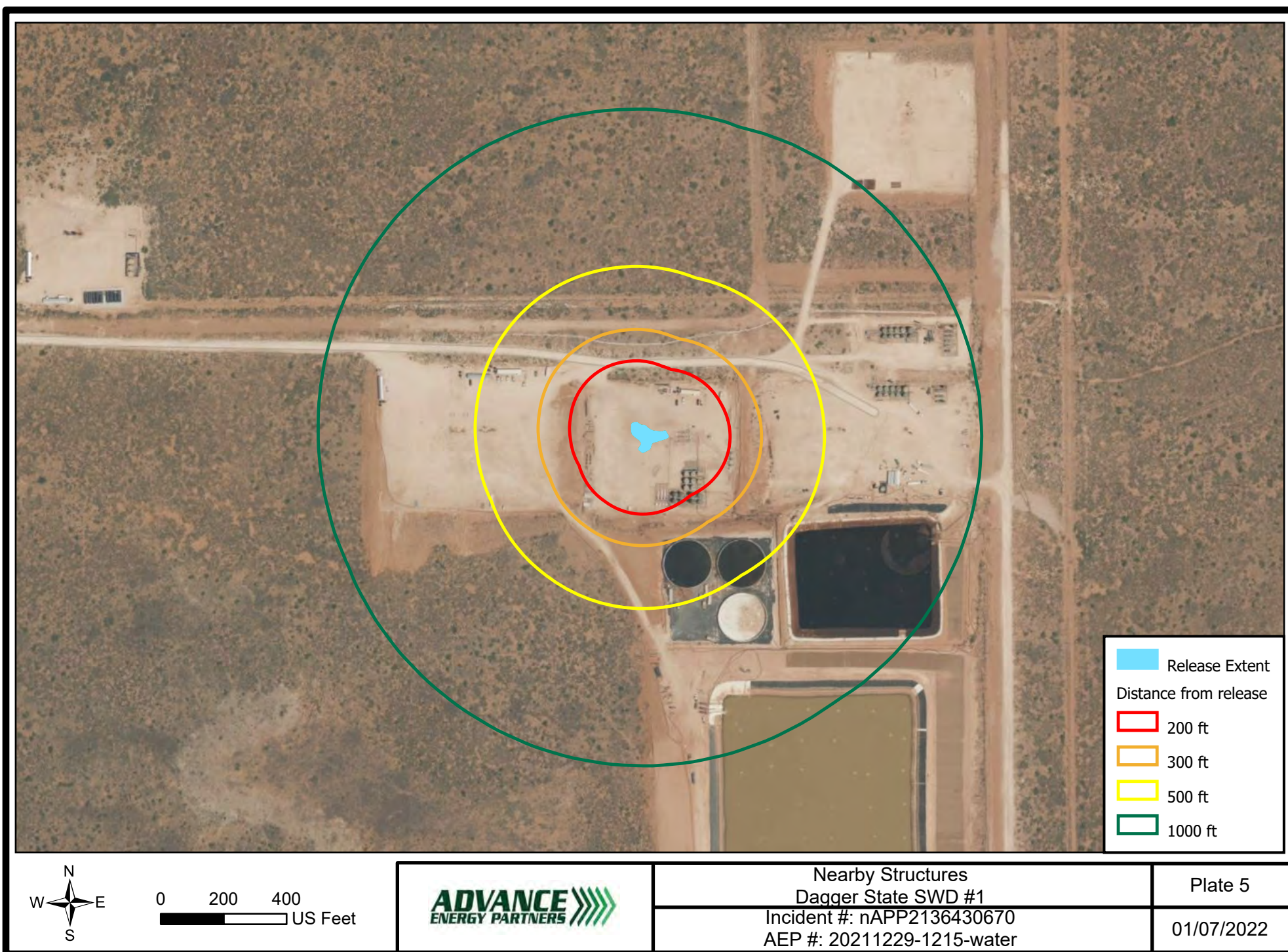




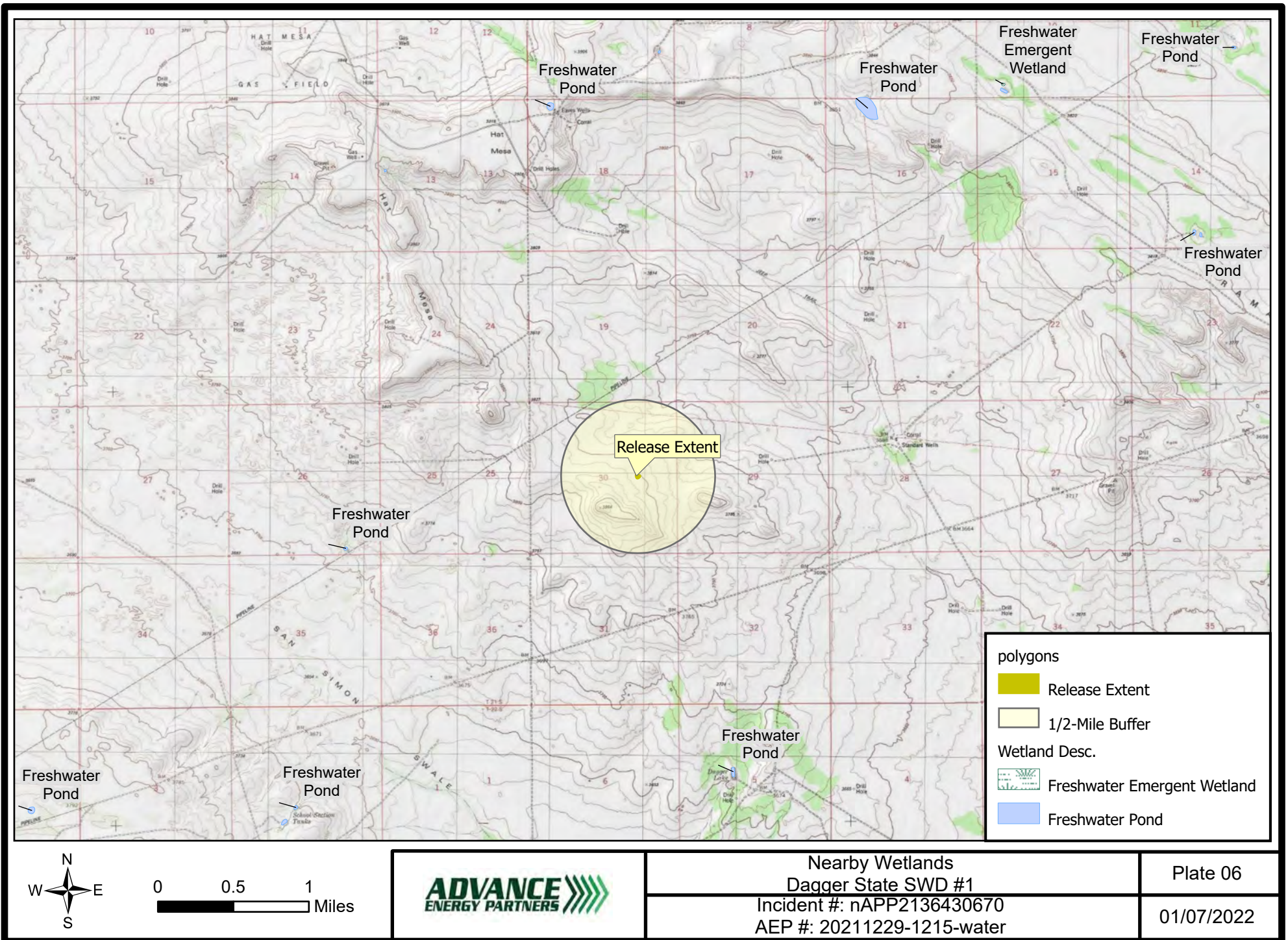




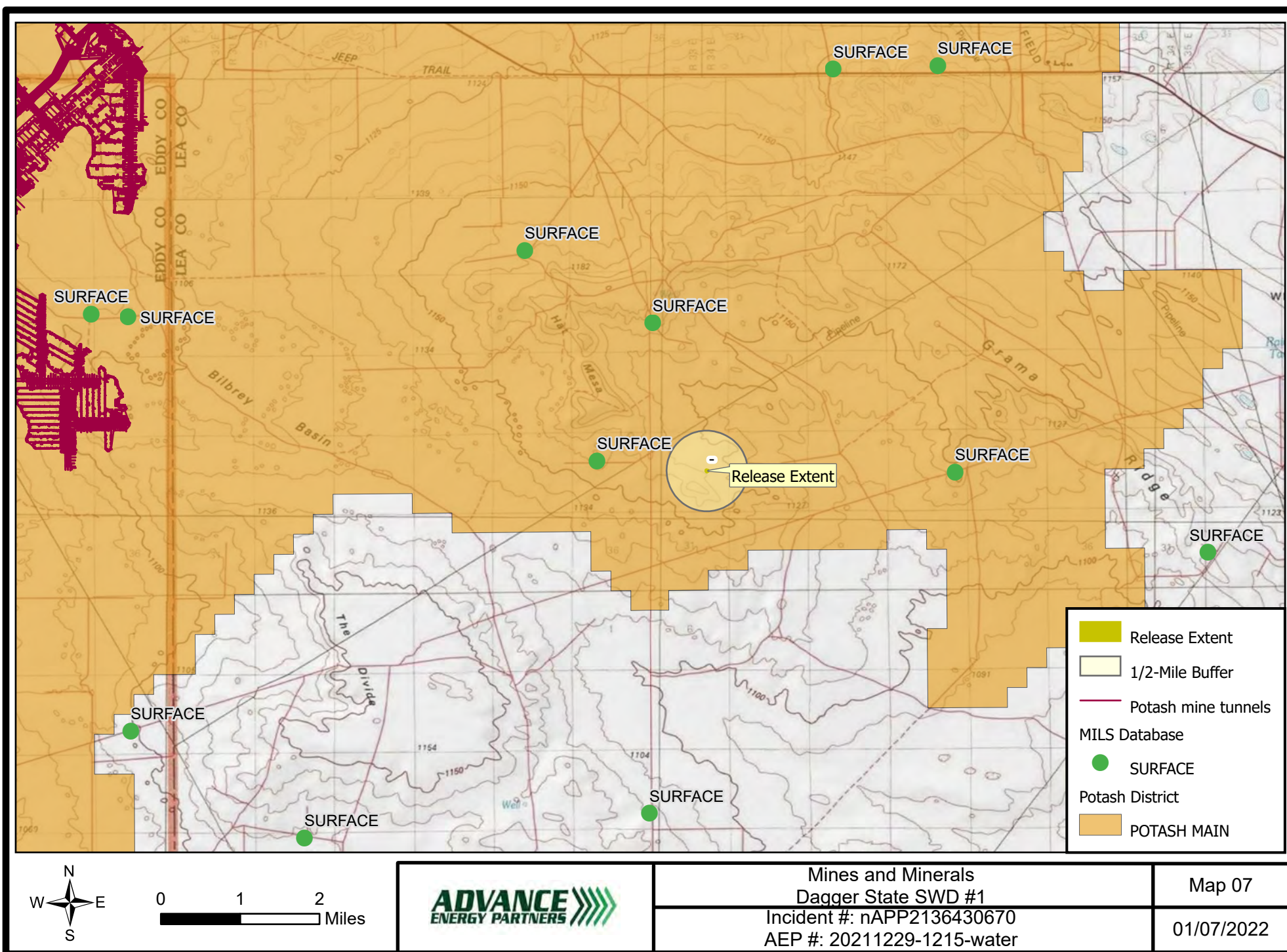




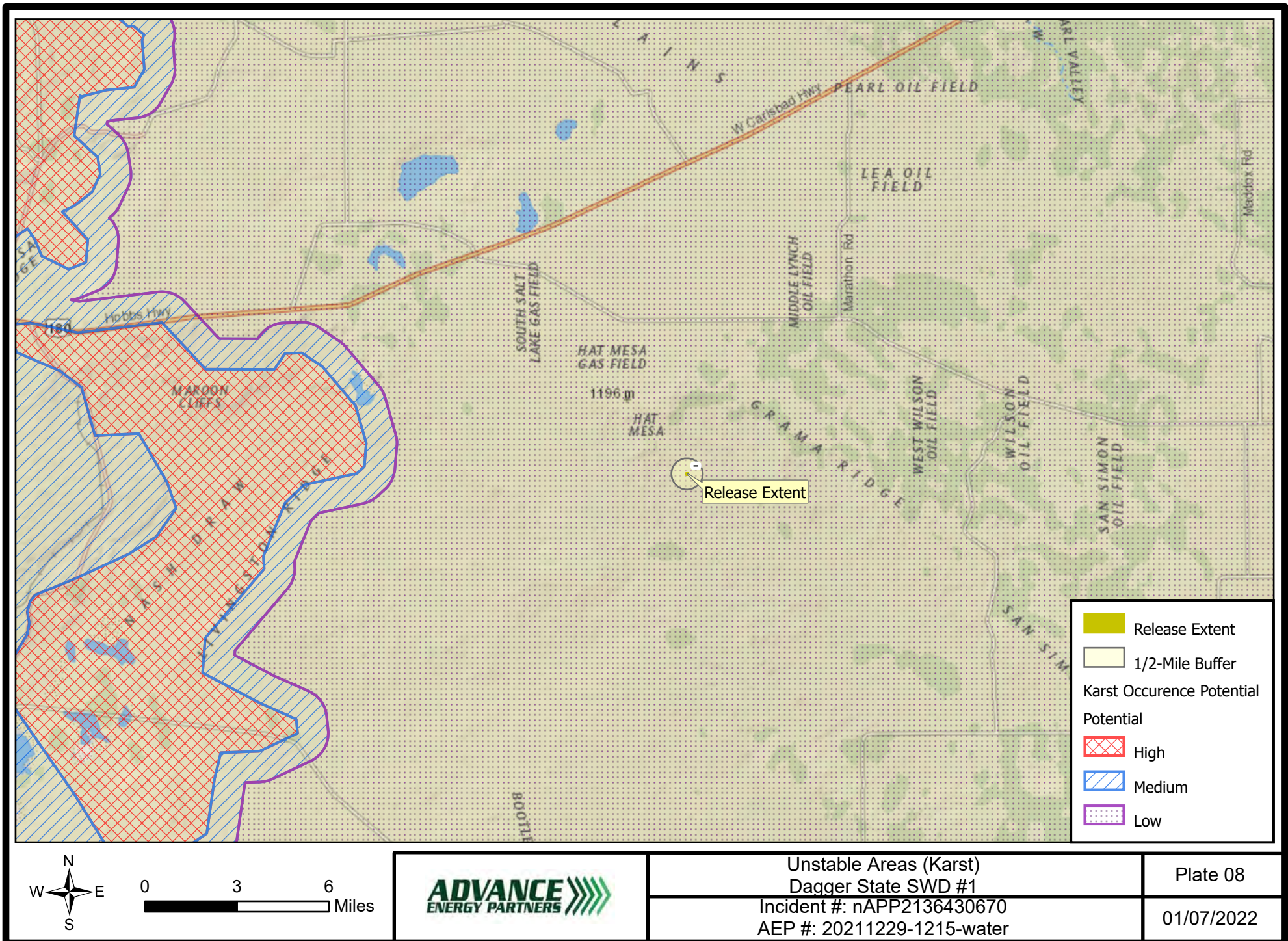




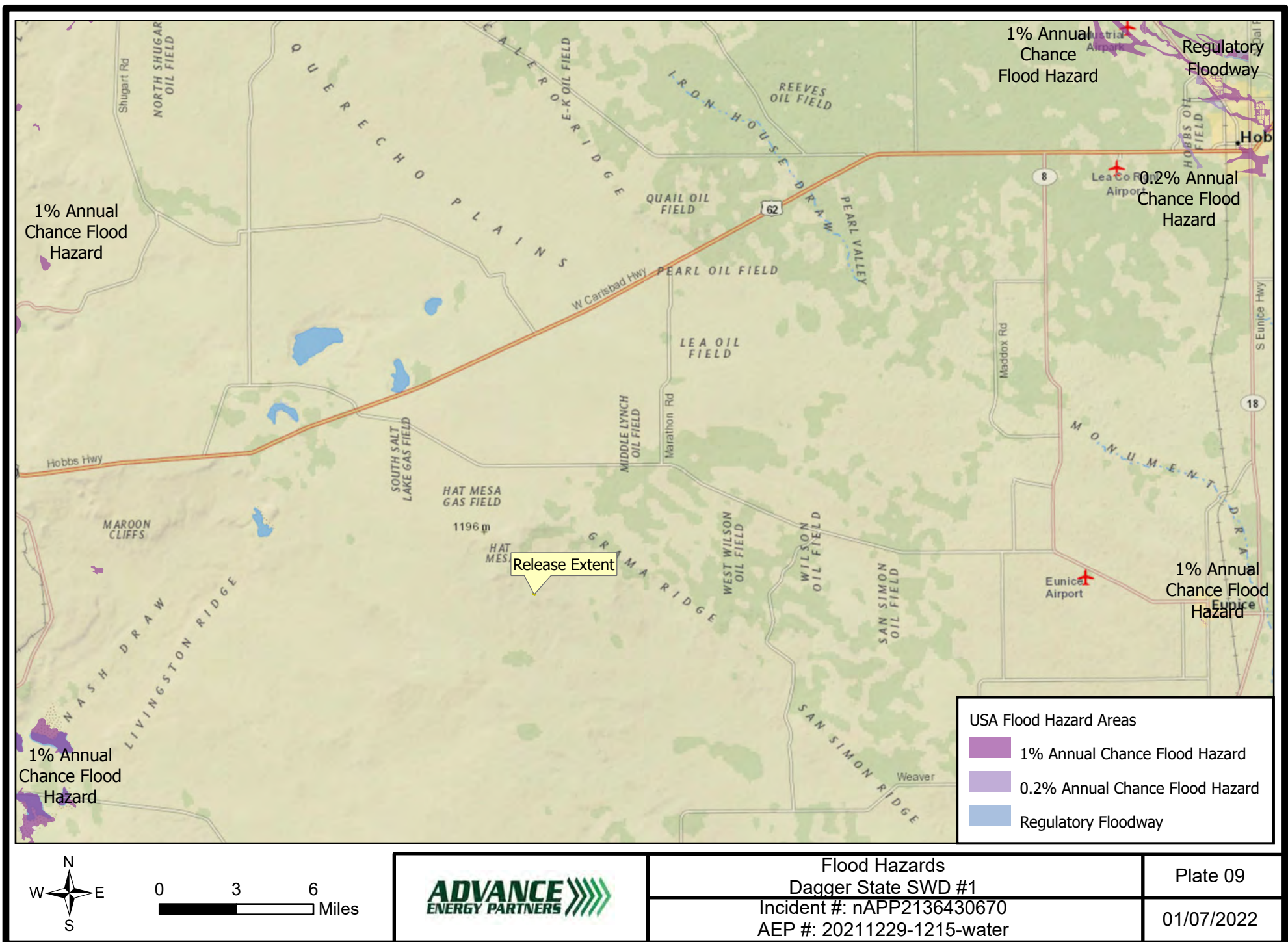


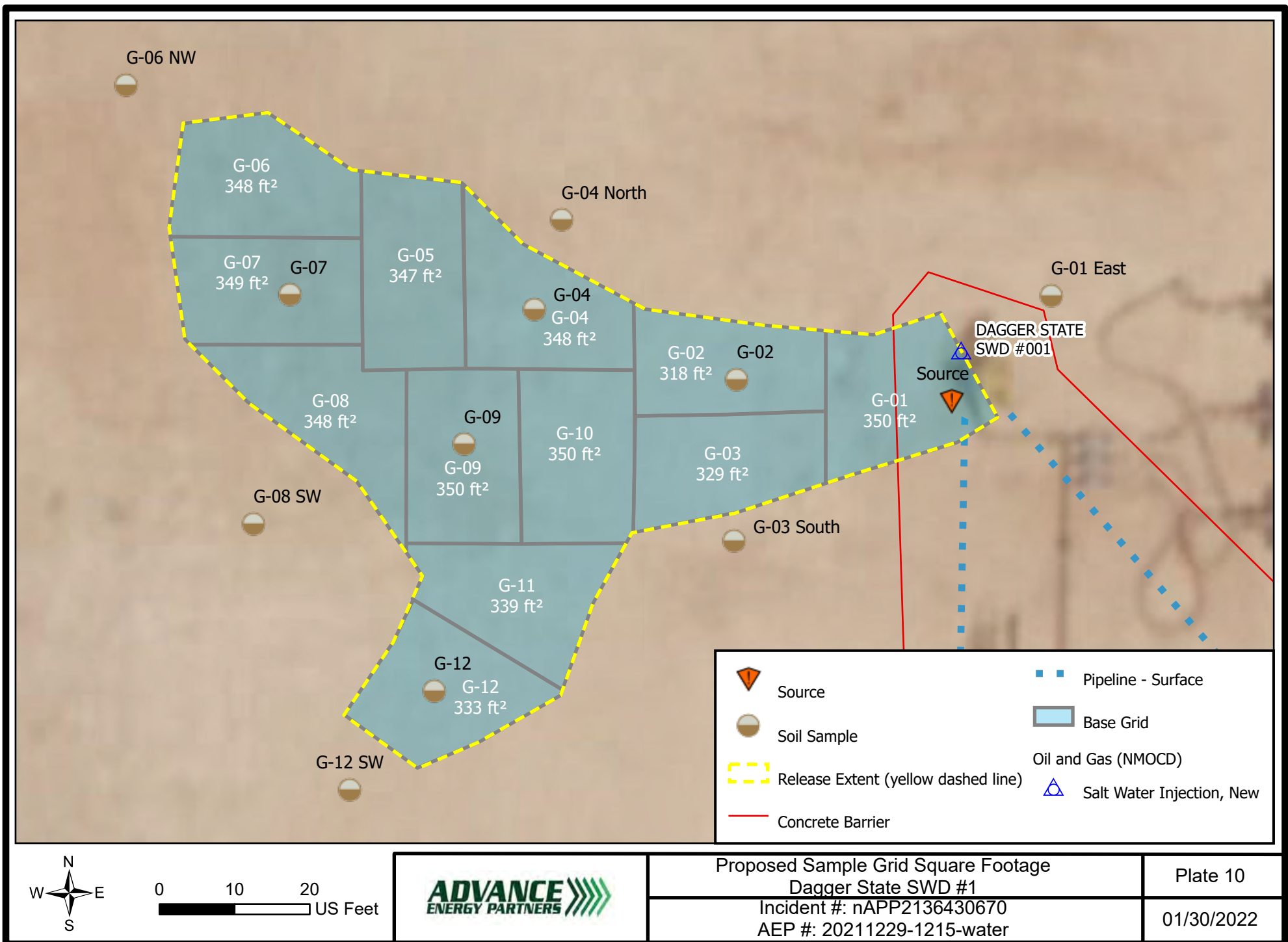


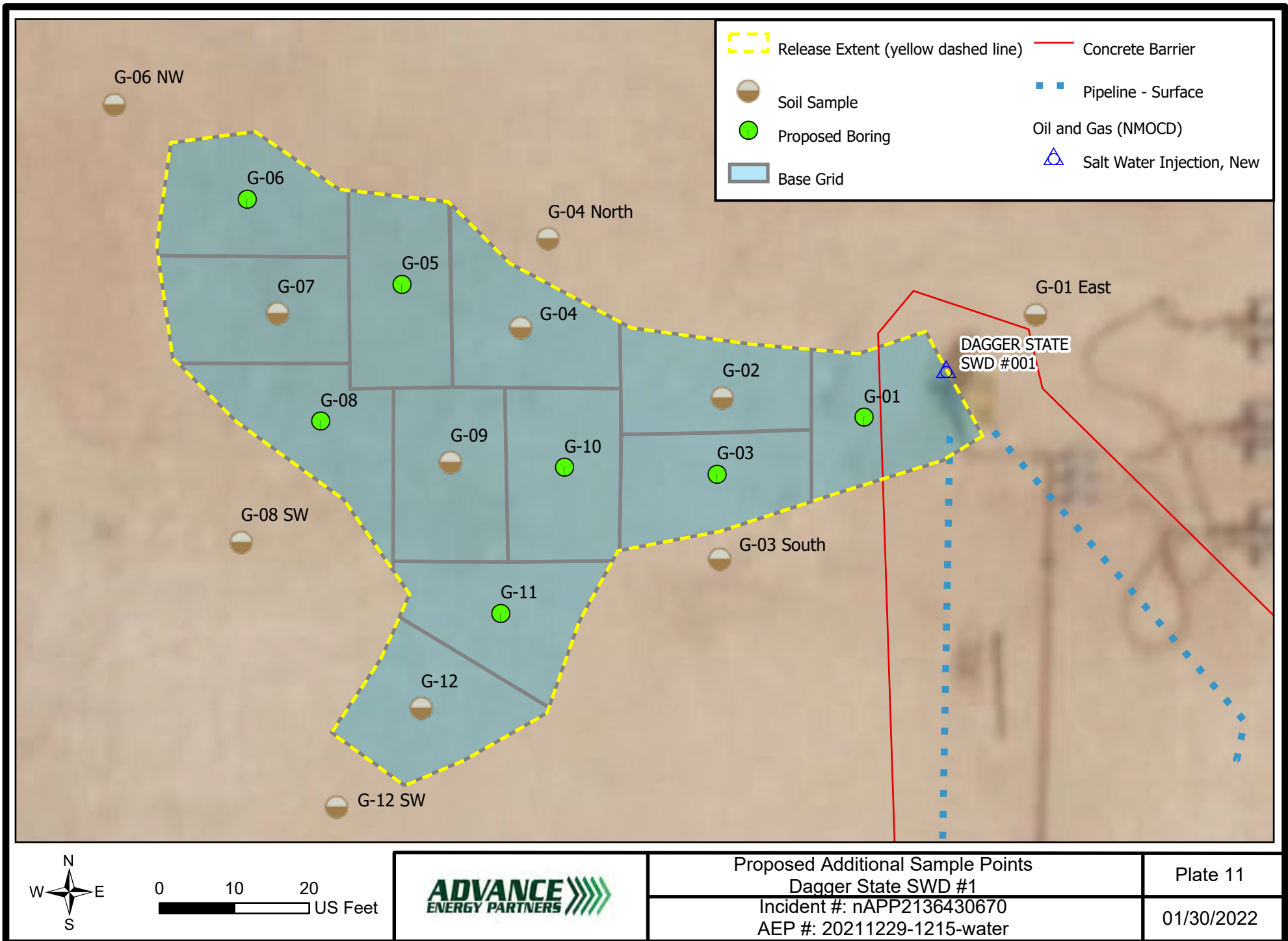














# Tables



Sample ID	Latitude	Longitude
G-01 East	32.4499360794945	-103.607394611843
G-02	32.4499238675429	-103.607523427631
G-03 South	32.449864684981	-103.607525053919
G-04	32.4499500182929	-103.607610607904
G-04 North	32.4499826410187	-103.607598531264
G-06 NW	32.4500297813941	-103.607777288679
G-07	32.4499559028626	-103.60771582067
G-08 SW	32.4498861709754	-103.607708060345
G-09	32.44990085653	-103.60764132631
G-12	32.4498106889028	-103.607654870289
G-12 SW	32.4497799028374	-103.607685672137

01/30/2022

Table 2  
Summary of Analytical

Incident #: nAPP2136430670  
AEP #: 20211229-1215-water  
Dagger State SWD #1

Sample ID	Date	Comments	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria									
0 - 4 feet & "not in-use"					600	--	2,500	10	50
> 4 ft or "in-use"					20,000	1,000	2,500	10	50
G-01 East	1/17/2022	Perimeter	0.0	1.0	128	<20	<30	<0.05	<0.3
G-01 East	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-01 East	1/17/2022	Perimeter	3.0	4.0	32	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	0.0	1.0	2120	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	1.0	2.0	48	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	2.0	3.0	48	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	0.0	1.0	192	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	2.0	3.0	16	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	0.0	1.0	1100	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	1.0	2.0	480	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	2.0	3.0	880	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	0.0	1.0	144	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	2.0	3.0	48	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	0.0	1.0	64	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	1.0	2.0	64	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	2.0	3.0	192	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	0.0	1.0	1580	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	1.0	2.0	416	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	2.0	3.0	2280	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	0.0	1.0	32	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	2.0	3.0	240	<20	<30	<0.05	<0.3

01/30/2022

Table 2  
Summary of Analytical

Incident #: nAPP2136430670  
AEP #: 20211229-1215-water  
Dagger State SWD #1

Sample ID	Date	Comments	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria									
0 - 4 feet & "not in-use"					600	--	2,500	10	50
> 4 ft or "in-use"					20,000	1,000	2,500	10	50
G-09	1/17/2022	Release	0.0	1.0	880	<20	<30	<0.05	<0.3
G-09	1/17/2022	Release	1.0	2.0	720	<20	<30	<0.05	<0.3
G-09	1/17/2022	Release	2.0	3.0	1580	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	0.0	1.0	2160	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	1.0	2.0	320	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	2.0	3.0	496	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	0.0	1.0	144	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	1.0	2.0	160	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	2.0	3.0	208	<20	<30	<0.05	<0.3



# Appendix A

## Well Logs





2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

10/29/2021

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record CP-1882 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1882 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

USE DTT NOU 1 2021 PM4:42



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1882			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suitt 950				CITY STATE ZIP Houston TX 77077			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 27	SECONDS 7.70 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	36	17.7 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE NE Sec. 30 T21S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/06/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 106	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	106	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

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

FILE NO.	POD NO.	TRN NO.
LOCATION	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	9	9	Sand, Fine-grained, poorly graded, Red	Y ✓ N	
	9	19	10	Caliche, with fine-grained sand, White/Tan	Y ✓ N	
	19	69	50	Sand, Fine-grained, poorly graded, Tan/ Brown	Y ✓ N	
	69	79	10	Sand, Fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
	79	106	27	Clay, Stiff, consolidated, with fine-grained sand, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					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): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> 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: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt					
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 30 DAYS AFTER COMPLETION OF WELL DRILLING:  <div style="display: flex; justify-content: space-between;"> <div>             SIGNATURE OF DRILLER / PRINT SIGNEE NAME         </div> <div>           Jackie D. Atkins            DATE         </div> </div>					

FOR OSE INTERNAL USE

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

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

# 2021-10-28\_CP-1882\_OSE\_Well Record and Log-forsigned

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAnssS7mjb_msszUkFnzTQWpA1ol8YdAXL

## "2021-10-28\_CP-1882\_OSE\_Well Record and Log-forsigned" History

 Document created by Lucas Middleton (lucas@atkinseng.com)

2021-10-29 - 3:54:49 PM GMT- IP address: 69.21.248.123

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2021-10-29 - 3:55:18 PM GMT

 Email viewed by Jack Atkins (jack@atkinseng.com)

2021-10-29 - 4:17:34 PM GMT- IP address: 64.90.153.232

 Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2021-10-29 - 4:18:13 PM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.

2021-10-29 - 4:18:13 PM GMT

USE BY NOV 1 2021 PM 4:43



**Adobe Sign**



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1882-POD1

Well owner: Advanced Energy Partners

Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Suite 950

City: Houston State: Texas Zip code: 77077

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins ( Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Shane Eldridge, Carmelo Trevino, Cameron Pruitt
- 4) Date well plugging began: 10/14/2021 Date well plugging concluded: 10/14/2021
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 7.70 sec  
Longitude: 103 deg, 36 min, 17.7 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 106 ft below ground level (bgl),  
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 07/08/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

032 JF NOV 1 2022 PM 4:43



- For each interval plugged, describe within the following columns:**

QSE 3.7 NOV 1 2021 PM 4:45

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

10/29/2021

Date \_\_\_\_\_






# 2021-10-28\_CP-1882\_\_WD-11 Plugging Record-forsign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAJ56zL5gGf8mtJumZGiLTdDB7pgJ8zerB

## "2021-10-28\_CP-1882\_\_WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2021-10-29 - 3:55:07 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2021-10-29 - 3:55:26 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2021-10-29 - 4:16:44 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2021-10-29 - 4:17:17 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2021-10-29 - 4:17:17 PM GMT

OEE OCT NOV 1 2021 PM 4:43



# Appendix B

## Certificate of Analysis





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

---

January 20, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: DAGGER SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/17/22 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-01 EAST 0-1' (H220181-01)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.99	99.4	2.00	3.67	
Toluene*	<0.050	0.050	01/18/2022	ND	1.93	96.7	2.00	3.51	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.91	95.5	2.00	3.66	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.77	96.1	6.00	3.95	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/19/2022	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-01 EAST 1-2' (H220181-02)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	01/19/2022	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-01 EAST 3-4' (H220181-03)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	01/19/2022	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 NORTH 0-1' (H220181-04)**

BTX 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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/19/2022	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.5 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 NORTH 1-2' (H220181-05)**

BTX 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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	01/19/2022	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 NORTH 2-3' (H220181-06)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.5 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-06 NW 0-1' (H220181-07)**

BTX 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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	221	111	200	5.87	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	222	111	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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

Received:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-06 NW 1-2' (H220181-08)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-06 NW 2-3' (H220181-09)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.4 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-08 SW 0-1' (H220181-10)**

BTX 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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.8 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-08 SW 1-2' (H220181-11)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-08 SW 2-3' (H220181-12)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 SW 0-1' (H220181-13)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.2 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 SW 1-2' (H220181-14)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 SW 2-3' (H220181-15)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-03 SOUTH 0-1' (H220181-16)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.2 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-03 SOUTH 1-2' (H220181-17)**

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	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-03 SOUTH 2-3' (H220181-18)**

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	01/19/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-02 0-1' (H220181-19)**

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	01/19/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-02 1-2' (H220181-20)**

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	01/19/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-02 2-3' (H220181-21)**

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	01/19/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-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	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 0-1' (H220181-22)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839	QM-07, QR-03	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	QR-03	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	QR-03	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	QR-03	
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 1-2' (H220181-23)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-04 2-3' (H220181-24)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-07 0-1' (H220181-25)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-07 1-2' (H220181-26)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-07 2-3' (H220181-27)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-09 0-1' (H220181-28)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-09 1-2' (H220181-29)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-09 2-3' (H220181-30)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEx	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 0-1' (H220181-31)**

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	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 1-2' (H220181-32)**

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	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: G-12 2-3' (H220181-33)**

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	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	01/19/2022	ND	416	104	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	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.4 % 59.5-142

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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-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", written in a cursive style.

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Abnate Energy Partners</u>		P.O. #: <u>20211229-1215- WATER</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Project #:		State:					
Project Name: <u>AFR 20211229-1215- WATER</u>		Zip:					
Project Location: <u>Dogger SW</u>		Phone #:					
Sample Name: <u>SA003 SAEN2</u>		Fax #:					
FOR LAB USE ONLY		PRESERV.		SAMPLING			
Lab I.D.		DATE		TIME			
Sample I.D.							
H220181		1/17/22		8:30am		Chloride	
01 G-01 EAST		0-1FT		8:40am		TPH (GRO + DRO + MPO)	
02 G-01 EAST		1-2FT		8:50am		Benzene, BTEX	
03 G-01 EAST		3-4FT		9:00am			
04 G-04 North		0-1FT		9:15am			
05 G-04 North		1-2FT		9:20am			
06 G-04 North		2-3FT		9:30am			
07 G-06 NW		0-1FT		9:45am			
08 G-06 NW		1-2FT		9:50am			
09 G-06 NW		2-3FT		10:00am			
10 G-08 SW		0-1FT					
PLEASE NOTE: Labelling and Damages: Customers liability and clients exclusive remedy for any claim arising whether stated in contract or not, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Date Received By: <u>1/17/22</u>		Time Received By: <u>8:10</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: <u>SA003 SAEN2</u>		Date: <u>1/17/22</u>		Time: <u>8:10</u>		All Results are emailed. Please provide Email address:	
Relinquished By: <u>[Signature]</u>		Received By: <u>[Signature]</u>		Time: <u>8:10</u>		REMARKS:	
Delivered By: <u>[Signature]</u>		Observed Temp. °C: <u>16.3</u>		Sample Condition: <u>Good</u>		CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>5.8</u>		Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID: <u>113</u>	
				Correction Factor: <u>-0.5</u>		Bacteria (only) Sample Condition: <input type="checkbox"/> Standard <input type="checkbox"/> Rush	
						Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Corrected Temp. °C:	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Advance Energy Partners</b>		P.O. #: <b>20211229-125-444</b>	
Project Manager: <b>Andrew Parker</b>		Company:	
Address:		Attn:	
City:		Address:	
Phone #:		City:	
Fax #:		State:	
Project #: <b>Project Owner:</b>		Zip:	
Project Name: <b>AEP 20211229-1215-4476R</b>		Phone #:	
Project Location: <b>Dwyer SWO</b>		Fax #:	
Sampler Name: <b>SAENL</b>		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
14220181									
11	G-08 SW	1-2FT	X	SOIL	X		1/17/22	10:10am	Chloride
12	G-08 SW	2-3FT		GROUNDWATER				10:15am	TPH (GRO + DRO + MRO)
13	G-12 SW	0-1FT		WASTEWATER				10:20am	Benzene, BTEX
14	G-12 SW	1-2FT		SLUDGE				10:30am	
15	G-12 SW	2-3FT		OTHER:				10:35am	
16	G-03 South	0-1FT		ACID/BASE:				10:40am	
17	G-03 South	1-2FT		ICE / COOL				10:45am	
18	G-03 South	2-3FT		OTHER:				10:50am	
19	G-02	0-1FT						10:55am	
20	G-02	1-2FT						10:59am	

Relinquished By: <b>SAENL</b>	Date:	Received By: <b>SAENL</b>	Date:
Relinquished By: <b>SAENL</b>	Date:	Received By: <b>SAENL</b>	Date:
Delivered By: <b>SAENL</b>	Observed Temp. °C: <b>6.3</b>	Sample Condition: <b>Good</b>	CHECKED BY: <b>SAENL</b>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <b>5.8</b>	Thermometer ID: <b>113</b>	Turnaround Time: <b>11:35</b>
		Correction Factor: <b>+0.5</b>	Standard: <b>Fluor</b>
			Bacteria (only) Sample Condition: <b>Good</b>
			Cool Intact: <b>Yes</b>
			Observed Temp. °C: <b>5</b>
			Corrected Temp. °C: <b>5</b>

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Adventure Energy Partners</u>		P.O. #: <u>20211229-1215-WATER</u>	
Project Manager: <u>Andrew Parker</u>		Company:	
Address:		Attn:	
City:	State:	Zip:	Address:
Phone #:	Fax #:	City:	State:
Project #:	Project Owner:	Phone #:	Zip:
Project Name: <u>Adel 20211229-1215-WATER</u>		Fax #:	
Project Location: <u>Dwyer SW</u>			
Sampler Name: <u>3 ACOL 3 ACEN2</u>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	Analysis
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			
<u>H202181</u>														
21 G-02	2-3FT	G	1			X						1/17/22	11:00am	Chloride
22 G-04	0-1FT												11:05am	TPH (GALO + DRO + MRO)
23 G-04	1-2FT												11:10am	Benzene, BTEX
24 G-04	2-3FT												11:15am	
25 G-01	0-1FT												11:20am	
26 G-01	1-2FT												11:25am	
27 G-01	2-3FT												11:30am	
28 G-09	0-1FT												11:35am	
29 G-09	1-2FT												11:40am	
30 G-09	2-3FT												11:45am	

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Relinquished By: <u>SAOB SHEN2</u>	Date: <u>1/17/22</u>	Received By: <u>Andrew Parker</u>	Date: <u>1/17/22</u>
Time: <u>11:00am</u>	Time: <u>11:00am</u>	Time: <u>11:00am</u>	Time: <u>11:00am</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <u>61.3</u>	Corrected Temp. °C: <u>5.8</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Turnaround Time: <u>11:15</u>	Standard <input checked="" type="checkbox"/>	Bacteria (only) <input type="checkbox"/>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

REMARKS:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com





Advance Event Partners

+ Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

**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 78736

**CONDITIONS**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 78736
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rmarcus	The submitted C-141 is accepted with the following condition(s): The lateral and longitudinal information does not match the ULSTR regarding the release location. Please correct the conflicting information and report back to OCD. The latitude and longitude information on the C-141 resulted in the following ULSTR: 30-H-21S-33E.	2/13/2022