

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

QUESTIONS

Action 13222

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 13222
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS**Location of Release Source**

Please answer all of the questions in this group.

Site Name	12242020-0130-dc MSU 554H
Date Release Discovered	12/24/2020
Surface Owner	State

Incident Details

Please answer all of the questions in this group.

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

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.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 100 BBL Recovered: 80 BBL Lost: 20 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.
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Andrew Parker
If YES, was immediate notice given to the OCD, to whom	Enviro, OCD, EMNRD, M. Bratcher, B. Billings
If YES, was immediate notice given to the OCD, when	12/24/2020
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email

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.

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

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ACKNOWLEDGMENTS

Action 13222

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Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 13222
	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 13222

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 13222
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	1/4/2021

Incident ID	nAPP2036561497
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

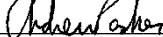
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: December 14, 2022

email: aparker@ameredev.com

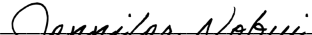
Telephone: 970-570-9535

OCD Only

Received by: _____

Date: _____

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

Closure Approved by:  Date: 12/14/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



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

12/14/2022

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

RE:

Closure Report
Incident #: nAPP2036561497
AEP #: 12242020-0130-dc
Location: Merchant State Unit #554H (MSU "A" Pad)

NMOCD:

Thank you for approval of the Merchant State Unit #554H (#nAPP2036561497) remediation plan. In response to the conditions of approval set forth in NMOCD's March 7, 2022 remediation plan approval, Advance Energy Partners (AEP) submits this closure report and respectfully asks for closure of the regulatory file.

Depth-to-water determination is reproduced from the "Revised Remediation Plan" dated November 4, 2021,

The nearest boring is located 0.09-miles southwest of the release. The boring is identified as MISC-404 (CP-1887). No groundwater was detected within the upper 100-feet. Plate 2 (revised) is an updated depth-to-water map.

The driller log is located in Appendix A.

Per the remediation plan approval, soil samples were collected from sample grid locations shown on Plate 11, with base samples representing an area \leq 400 sq. ft. and wall samples representing an area \leq 200 sq. ft. On-site and off-site (ROW) grids are identified. Communications are attached in Appendix A.

Plate 12 identifies location of confirmation samples 1) on an active production used for oil and gas operations and 2) off-site and within a right-of-way (ROW). Table A provides the sample coordinates.

Sample locations that exceed closure criteria in the March 2021 sampling event were resampled in March and April 2022 to direct remedial activities per approved Remediation Plan dated November 4, 2021.

Incident #: nAPP2036561497

AEP #: 12242020-0130-dc

Over the course of the year, there were four consecutive months exhibiting precipitation events of approximately 1-inch or more from June to August 2021. These precipitation events were captured at the Paduca, New Mexico weather station¹ (Figure 1). Two of the precipitation events are represented in Figures 2 & 3, showing rainwater pooling along the ROW at grid G-03 (sample location HA-03). The observed rain events likely caused downward chloride movement, resulting in a decrease in chloride concentrations, within the upper 4.5-feet, as exhibited in the March 2021 and March/April 2022 sampling events.

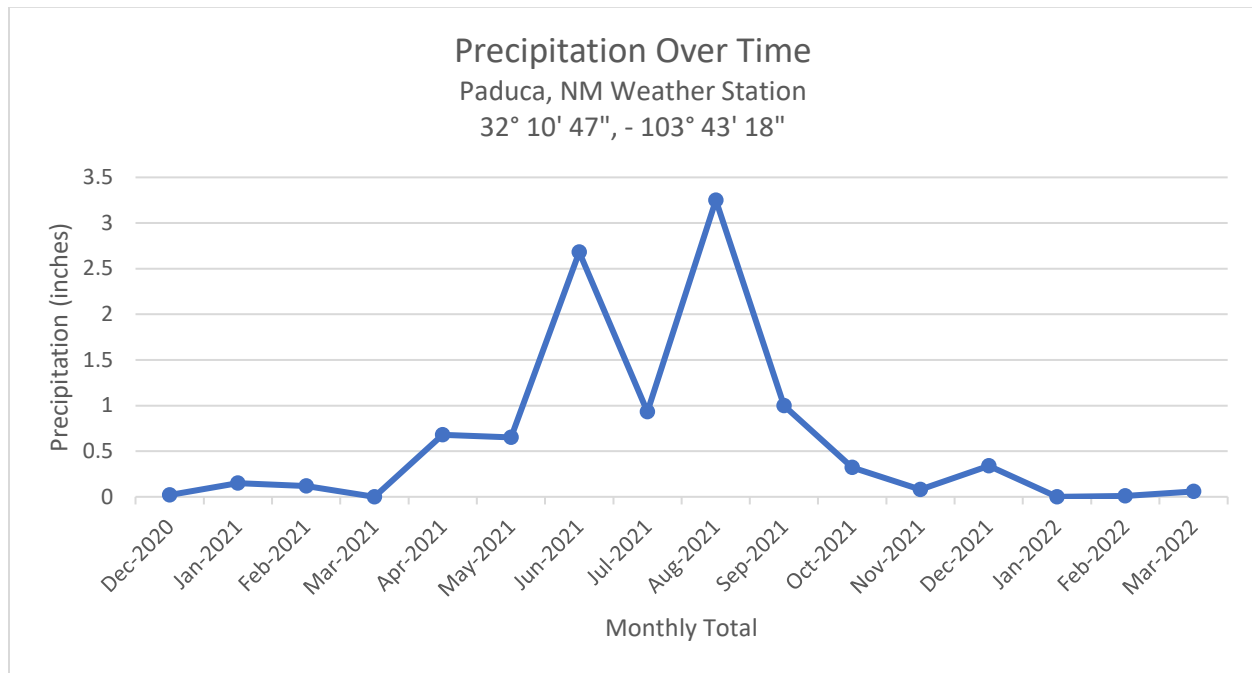


Figure 1: Precipitation graph from December 24th 2020 through March 2022 capturing rain events June through August 2021, where significant rainfall events were observed at the release location. Source: Western Regional Climate Center. Source: <https://wrcc.dri.edu/cgi-bin/rawMAIN.pl?nmXPAD>

¹ Western Regional Climate Center (<https://wrcc.dri.edu/cgi-bin/rawMAIN.pl?nmXPAD>)

Incident #: nAPP2036561497

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Figure 2: Precipitation event on 06/28/2021. Photo is viewing south-southwest along ROW. Grids G-03 & G-03.1 are pictured along the ROW. 32.4427917 N, 103.5360028 W.



Figure 3: Pooling of rainwater within ROW after the July 18, 2021 precipitation event. Photo is viewing south-southwest along ROW. Grids G-03, G-03.1 & G-03.2 are pictured along the ROW. 32.4427417 N, 103.5360333 W. 07/19/2021.

12/14/2022

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The March 2021 and March-April 2022 sampling program indicated that four of the eight sampling grids within the ROW required removal of the upper 4-feet of soil. Total depth of the excavations were 4.5-feet below ground surface. The grids that were excavated to 4.5-feet were:

- HA-01
- HA-01.1
- HA-03.3, and
- the south wall at HA-10.1 (resampled as HA-10.1 SE)

Figure 4: View of excavation in progress of the wall at HA-10.1 looking west toward excavation at Grid HA 01 and HA 01.1.

Date Taken: 2022-06-29
14:38:00



Figure 5: View of excavation in progress of the south wall at HA-10.1 looking east toward excavation at grid G-03.3.

Date Taken: 2022-06-29 14:37:21. GPS:
32.4417347, -103.5471786

Approximately 100 cubic yards of material was hauled off-site for proper disposal. Per 19.15.29.13.A-D, the off-site area was remediated and restored as an active right-of-way (Figure 6).

12/14/2022

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Figure 6: Remediated and reclaimed surface along ROW. Photograph is viewing east. Restored surface at the south wall of grid G-10.1 (foreground) and G-03.3 (background). 32.4427183 N, 103.5363253 W. 07/20/2022.

Table B is a summary of analytical results of confirmation samples. Appendix B contains the laboratory Certificate of Analysis.

All soil samples meet Table 1 of 19.15.29 NMAC closure criteria where depth-to-water is >100 feet below ground surface defined as:

Off-site in the pipeline ROW

- Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
- Below 4-feet
 - 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

On an active production site

- 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

12/14/2022

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Incident #: nAPP2036561497

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Per 19.15.29.12.C.(2) NMAC and the approved remediation plan, no remediation was required on the production site. Confirmation sampling boreholes on the active production site were backfilled with bentonite chips and capped with caliche to restore the surface to an active production site per 19.15.29.13.B.

Seventeen (17) of the nineteen (19) sample grids on the active production site will require remediation and reclamation when the production site is no longer in-use for oil & gas operations, per 19.15.29.13.A-D.

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

Sincerely,
Advance Energy Partners Hat Mesa, LLC



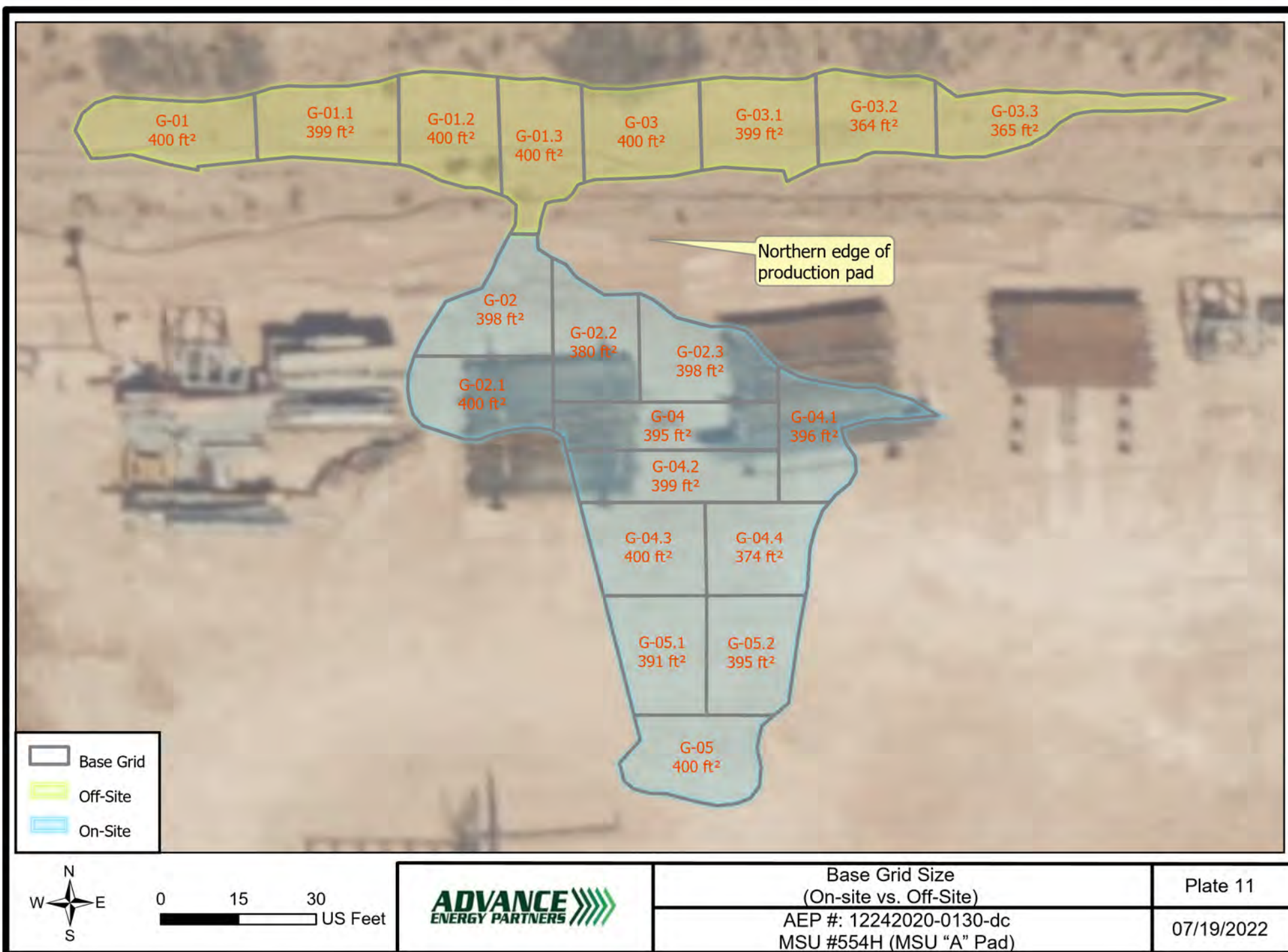
Andrew Parker
Env. Scientist

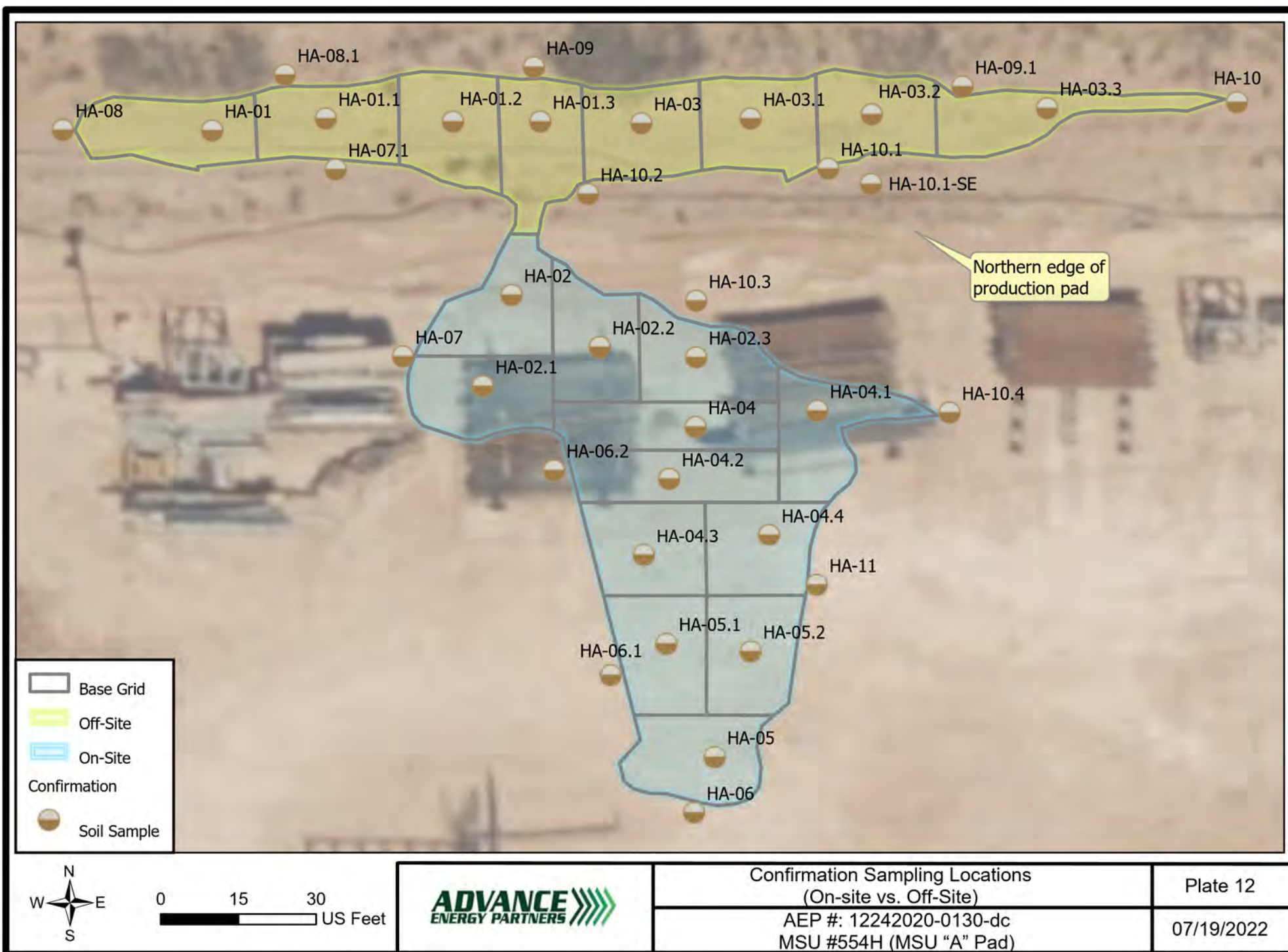
Copy: State Land Office

12/14/2022

Plates







Tables



Sample ID	Location	Latitude	Longitude
Source	Source	32.44271803	-103.5365074
HA-01	Base	32.44273447	-103.5365001
HA-01.1	Base	32.44274037	-103.5364289
HA-01.2	Base	32.44273824	-103.5363494
HA-01.3	Base	32.44273789	-103.5362948
HA-02	Base	32.4426464	-103.5363136
HA-02.1	Base	32.44259825	-103.536332
HA-02.2	Base	32.44261846	-103.5362586
HA-02.3	Base	32.44261264	-103.5361983
HA-03	Base	32.44273661	-103.5362315
HA-03.1	Base	32.44273869	-103.5361632
HA-03.2	Base	32.44274039	-103.5360875
HA-03.3	Base	32.44274296	-103.5359777
HA-04	Base	32.44257579	-103.536199
HA-04.1	Base	32.44258386	-103.5361229
HA-04.2	Base	32.44254833	-103.5362158
HA-04.3	Base	32.44250781	-103.536232
HA-04.4	Base	32.4425182	-103.5361536
HA-05	Base	32.44240031	-103.5361887
HA-05.1	Base	32.4424606	-103.5362184
HA-05.2	Base	32.44245622	-103.5361657
HA-06	Wall	32.44237119	-103.5362018
HA-06.1	Wall	32.44244426	-103.5362533
HA-06.2	Wall	32.44255334	-103.5362879
HA-07	Wall	32.44261427	-103.5363818
HA-07.1	Wall	32.44271339	-103.536423
HA-08	Wall	32.44273533	-103.5365934
HA-08.1	Wall	32.44276375	-103.5364543
HA-09	Wall	32.44276678	-103.5362985
HA-09.1	Wall	32.44275485	-103.5360306
HA-10	Wall	32.44274542	-103.5358589
HA-10.1	Wall	32.44271187	-103.5361149
HA-10.1-SE	Wall	32.44270349	-103.5360882
HA-10.2	Wall	32.44269938	-103.5362653
HA-10.3	Wall	32.44264257	-103.5361981
HA-10.4	Wall	32.44258236	-103.5360402
HA-11	Wall	32.44249131	-103.5361239

Sample ID	Date	Sample Area	Location	Comments	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria								.					x	
- 4 feet & "not in-use"								600	--	2,500	10	50	x	
> 4 ft or "in-use"								20,000	1,000	2,500	10	50	x	
HA-01	3/23/2021	Base	ROW	Removed		0.00	1.00	992	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-01	3/23/2021	Base	ROW	Removed		1.00	2.00	2960	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-01	3/23/2021	Base	ROW	Removed		2.00	3.00	7360	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-01	3/23/2021	Base	ROW	Removed		3.00	4.00	2480	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-01	3/23/2021	Base	ROW	Removed	4.5			272	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-01	4/12/2022	Base	ROW	Removed		0.00	2.00	288	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-01	4/12/2022	Base	ROW	Removed		2.00	4.00	5040	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-01	4/12/2022	Base	ROW	Removed	4.5			1260	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-01	6/29/2022	Base	ROW		4.5			3560	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-01	6/29/2022	Base - Delineation	ROW		5.5			2200	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-01	6/29/2022	Base - Delineation	ROW		6.5			2160	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-01.1	3/22/2022	Base	ROW	Removed		0.00	2.00	128	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-01.1	3/22/2022	Base	ROW	Removed		2.00	4.00	1800	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-01.1	3/22/2022	Base	ROW	Removed	4.5			2200	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-01.1	6/29/2022	Base - Delineation	ROW		4.5			2880	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-01.1	6/29/2022	Base - Delineation	ROW		5.5			1540	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-01.1	6/29/2022	Base - Delineation	ROW		6.5			832	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-1.2	3/22/2022	Base	ROW			0.00	2.00	128	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-1.2	3/22/2022	Base	ROW			2.00	4.00	224	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-1.2	3/22/2022	Base	ROW		4.5			144	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-1.3	3/22/2022	Base	ROW			0.00	2.00	80	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-1.3	3/22/2022	Base	ROW			2.00	4.00	240	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-1.3	3/22/2022	Base	ROW		4.5			912	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-02	3/23/2021	Base	Pad	See Note 1		0.00	0.75	1150	<254	<265.7	<0.05	<0.3	Cardinal	H210753
HA-02	3/23/2021	Base	Pad			0.75	1.50	192	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-02	3/23/2021	Base	Pad			1.50	2.50	288	<21.2	<31.2	<0.05	<0.3	Cardinal	H210753
HA-02.1	3/11/2022	Base	Pad	See Note 1		0.00	1.00	2960	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-02.1	3/11/2022	Base	Pad			1.00	2.00	320	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-02.1	3/11/2022	Base	Pad			2.00	4.00	96	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-02.2	3/22/2022	Base	Pad			0.00	1.00	448	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-02.2	3/22/2022	Base	Pad			1.00	2.00	144	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-02.2	3/22/2022	Base	Pad			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-02.2	3/22/2022	Base	Pad		4.5			32	<20	<30	<0.05	<0.3	Cardinal	H221142

Sample ID	Date	Sample Area	Location	Comments	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria								.					x	
- 4 feet & "not in-use"								600	--	2,500	10	50	x	
> 4 ft or "in-use"								20,000	1,000	2,500	10	50	x	
HA-02.3	3/11/2022	Base	Pad	See Note 1		0.00	1.00	2110	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-02.3	3/11/2022	Base	Pad			1.00	2.00	272	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-02.3	3/11/2022	Base	Pad			2.00	4.00	32	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-03	3/23/2021	Base	ROW	See Note 2		0.00	1.00	832	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-03	3/23/2021	Base	ROW	See Note 2		1.00	2.00	1630	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-03	3/23/2021	Base	ROW	See Note 2		2.00	3.00	7730	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-03	3/23/2021	Base	ROW	See Note 2		3.00	4.00	8400	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-03	3/23/2021	Base	ROW	See Note 2	4.5			5760	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-03	4/12/2022	Base	ROW			0.00	2.00	80	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-03	4/12/2022	Base	ROW			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-03	4/12/2022	Base	ROW		4.5			80	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-03.1	3/22/2022	Base	ROW			0.00	2.00	32	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.1	3/22/2022	Base	ROW			2.00	4.00	16	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.1	3/22/2022	Base	ROW		4.5			64	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.2	3/22/2022	Base	ROW			0.00	2.00	48	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.2	3/22/2022	Base	ROW			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.2	3/22/2022	Base	ROW		4.5			832	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.3	3/22/2022	Base	ROW	Removed		0.00	2.00	272	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.3	3/22/2022	Base	ROW	Removed		2.00	4.00	880	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.3	3/22/2022	Base	ROW	Removed	4.5			144	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-03.3	6/29/2022	Base	ROW		4.5			48	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-04	3/24/2021	Base	Pad	See Note 1		0.00	0.75	2280	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-04	3/24/2021	Base	Pad			0.75	1.50	128	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-04	3/24/2021	Base	Pad			1.50	2.50	16	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-04.1	3/11/2022	Base	Pad	See Note 1		0.00	1.00	13,100	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.1	3/11/2022	Base	Pad	See Note 1		1.00	2.00	2640	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.1	3/11/2022	Base	Pad			2.00	4.00	208	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.1	3/11/2022	Base	Pad		4.5			48	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.2	3/11/2022	Base	Pad	See Note 1		0.00	1.00	2260	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.2	3/11/2022	Base	Pad			1.00	2.00	368	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.2	3/11/2022	Base	Pad			2.00	4.00	48	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.3	3/11/2022	Base	Pad	See Note 1		0.00	1.00	4360	<25.4	<35.4	<0.05	<0.3	Cardinal	H221018
HA-04.3	3/11/2022	Base	Pad	See Note 1		1.00	2.00	640	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.3	3/11/2022	Base	Pad			2.00	4.00	48	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.4	3/11/2022	Base	Pad	See Note 1		0.00	1.00	2240	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-04.4	3/11/2022	Base	Pad			1.00	2.00	32	<20	<30	<0.05	<0.3	Cardinal	H221018

Sample ID	Date	Sample Area	Location	Comments	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria								.					x	
- 4 feet & "not in-use"								600	--	2,500	10	50	x	
> 4 ft or "in-use"								20,000	1,000	2,500	10	50	x	
HA-05	3/24/2021	Base	Pad	See Note 1		0.00	0.75	2520	<55.2	<65.2	<0.05	<0.3	Cardinal	H210753
HA-05	3/24/2021	Base	Pad			0.75	1.50	96	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-05	3/24/2021	Base	Pad			1.50	2.50	16	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-05.1	3/11/2022	Base	Pad	See Note 1		0.00	1.00	2400	<40.2	<50.2	<0.05	<0.3	Cardinal	H221018
HA-05.1	3/11/2022	Base	Pad			1.00	2.00	256	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-05.1	3/11/2022	Base	Pad			2.00	4.00	32	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-05.2	3/11/2022	Base	Pad	See Note 1		0.00	1.00	1890	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-05.2	3/11/2022	Base	Pad			1.00	2.00	80	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-05.2	3/11/2022	Base	Pad			2.00	4.00	32	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-06	3/24/2021	Wall	Pad	See Note 1		0.00	0.75	608	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-06	3/24/2021	Wall	Pad			0.75	1.50	176	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-06	3/24/2021	Wall	Pad			1.50	2.50	48	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-06.1	3/11/2022	Wall	Pad			0.00	1.00	592	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-06.1	3/11/2022	Wall	Pad			1.00	2.00	48	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-06.2	3/11/2022	Wall	Pad	See Note 1		0.00	1.00	1070	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-06.2	3/11/2022	Wall	Pad			1.00	2.00	96	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-06.2	3/11/2022	Wall	Pad			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-07	3/24/2021	Wall	Pad	See Note 1		0.00	0.75	944	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-07	3/24/2021	Wall	Pad			0.75	1.50	256	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-07	3/24/2021	Wall	Pad			1.50	2.50	96	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-07.1	3/22/2022	Wall	ROW			0.00	2.00	112	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-07.1	3/22/2022	Wall	ROW			2.00	4.00	96	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-07.1	3/22/2022	Wall	ROW		4.5			64	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-08	3/24/2021	Wall	ROW			0.00	1.00	48	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-08.1	3/22/2022	Wall	ROW			0.00	2.00	32	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-08.1	3/22/2022	Wall	ROW			2.00	4.00	48	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-08.1	3/22/2022	Wall	ROW		4.5			48	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-09	3/24/2021	Wall	ROW			0.00	1.00	16	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-9.1	3/22/2022	Wall	ROW			0.00	2.00	<16	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-9.1	3/22/2022	Wall	ROW			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-9.1	3/22/2022	Wall	ROW		4.5			32	<20	<30	<0.05	<0.3	Cardinal	H221142

Sample ID	Date	Sample Area	Location	Comments	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria								.					x	
- 4 feet & "not in-use"								600	--	2,500	10	50	x	
> 4 ft or "in-use"								20,000	1,000	2,500	10	50	x	
HA-10	3/24/2021	Wall	ROW			0.00	1.00	96	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-10.1	3/22/2022	Wall	ROW	Removed		0.00	2.00	496	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.1	3/22/2022	Wall	ROW	Removed		2.00	4.00	2160	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.1	3/22/2022	Wall	ROW	Removed	4.5			1220	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.1	6/29/2022	Wall	ROW			0.00	4.00	16	<20	<30	<0.05	<0.3	Cardinal	H222802
HA-10.1 SE	4/12/2022	Wall	ROW			0.00	2.00	80	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-10.1 SE	4/12/2022	Wall	ROW			2.00	4	80	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-10.1 SE	4/12/2022	Base	ROW		4.5			64	<20	<30	<0.05	<0.3	Cardinal	H221513
HA-10.2	3/22/2022	Wall	ROW			0.00	2.00	48	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.2	3/22/2022	Wall	ROW			2.00	4.00	32	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.2	3/22/2022	Wall	ROW		4.5			32	<20	<30	<0.05	<0.3	Cardinal	H221142
HA-10.3	3/11/2022	Wall	Pad	See Note 1		0.00	1.00	944	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-10.3	3/11/2022	Wall	Pad			1.00	2.00	256	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-10.3	3/11/2022	Wall	Pad			2.00	4.00	128	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-10.4	3/11/2022	Wall	Pad	See Note 1		0.00	1.00	1360	<327	<337	<0.05	<0.3	Cardinal	H221018
HA-10.4	3/11/2022	Wall	Pad			1.00	2.00	128	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-10.4	3/11/2022	Wall	Pad			2.00	4.00	64	<20	<30	<0.05	<0.3	Cardinal	H221018
HA-11	3/24/2021	Wall	Pad	See Note 1		0.00	0.75	624	<20	<30	<0.05	<0.3	Cardinal	H210753
HA-11	3/24/2021	Wall	Pad			0.75	1.50	32	<20	<30	<0.05	<0.3	Cardinal	H210753
Backfill	7/12/2022	Backfill						128	<20	<30	<0.05	<0.3	Cardinal	H222996
Note 1: Remediate when production site is no longer in-use.														
Note 2: Sampling post 1 year met closure criteria, see text														

Appendix A

Communications



Andrew Parker

From: Andrew Parker
Sent: Friday, June 24, 2022 10:26 AM
To: Enviro, OCD, EMNRD
Cc: Laura Parker; Jacob Saenz
Subject: 48 hour sampling notice nAPP2036561497 at MSU #554H

NMOCD,

Please accept this email as the 48 hour sampling notice per 19.5.29 NMAC for incident number nAPP2036561497 at MSU #554H. Advance Energy/Ameredev Operating will be remediating an area along the pipeline ROW per the approved remediation plan. Remediation will begin on Monday June 27th. Sampling will commence on Tuesday afternoon and continue throughout the week.

AEP #: 12242020-0130-dc.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



From: Andrew Parker
Sent: Tuesday, March 8, 2022 9:16 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: 48 hour sampling notice nAPP2036561497 at MSU #554H

NMOCD,

Please accept this email as the 48 hour sampling notice per 19.5.29 NMAC for incident number nAPP2036561497 at MSU #554H. AEP #: 12242020-0130-dc. Characterization sampling results may be used as confirmation sampling during closure reporting.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, March 7, 2022 2:51 PM

To: Andrew Parker <AParker@advanceenergypartners.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 60286

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 approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2036561497, with the following conditions:

- **The Remediation Plan is Conditionally Approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule. Soil contamination levels need to meet closure criteria standards for proven depth to water determination. Please make sure all groundwater data is included in closure report summary. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for floor confirmation samples of 400 ft² is approved. Sidewall samples should represent no more than 200 ft². The work will need to occur in 90 days after the work plan has been approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

Appendix B

Certificate of Analysis





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

March 29, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MERCHANT A PAP

Enclosed are the results of analyses for samples received by the laboratory on 03/25/21 12:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 01 0-1' (H210753-01)

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	03/25/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/25/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/25/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/25/2021	ND	5.84	97.4	6.00	4.03	
Total BTEX	<0.300	0.300	03/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	210	105	200	3.05	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	202	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.3 % 42.2-156

Cardinal Laboratories

*=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:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 01 1-2' (H210753-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/25/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/25/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/25/2021	ND	5.84	97.4	6.00	4.03	
Total BTEx	<0.300	0.300	03/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	210	105	200	3.05	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	202	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 01 2-3' (H210753-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2021	ND	2.10	105	2.00	4.43		
Toluene*	<0.050	0.050	03/25/2021	ND	2.04	102	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/25/2021	ND	1.98	98.8	2.00	4.15		
Total Xylenes*	<0.150	0.150	03/25/2021	ND	5.84	97.4	6.00	4.03		
Total BTEx	<0.300	0.300	03/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	210	105	200	3.05	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	202	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.5 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 01 3-4' (H210753-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/25/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/25/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/25/2021	ND	5.84	97.4	6.00	4.03	
Total BTEx	<0.300	0.300	03/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 01 4.5' (H210753-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/25/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/25/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/25/2021	ND	5.84	97.4	6.00	4.03	
Total BTX	<0.300	0.300	03/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 02 0-0.75' (H210753-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	244	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	11.7	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.5 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 02 0.75-1.5' (H210753-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTX	<0.300	0.300	03/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.9 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 02 1.5-2.5' (H210753-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	11.2	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.7 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 03 0-1' (H210753-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43		
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.5 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 03 1-2' (H210753-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43		
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.7 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 03 2-3' (H210753-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43		
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7730	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 03 3-4' (H210753-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43		
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.5 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/23/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 03 4.5' (H210753-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTX	<0.300	0.300	03/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.4 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 04 0-0.75' (H210753-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.4 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 04 0.75-1.5' (H210753-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 04 1.5-2.5' (H210753-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.1 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 05 0-0.75' (H210753-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.10	105	2.00	4.43	
Toluene*	<0.050	0.050	03/26/2021	ND	2.04	102	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.98	98.8	2.00	4.15	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.84	97.4	6.00	4.03	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	45.2	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.5 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 05 0.75-1.5' (H210753-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTEX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.7 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 05 1.5-2.5' (H210753-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 06 0-0.75' (H210753-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTEx	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 62.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 57.4 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 06 0.75-1.5' (H210753-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 06 1.5-2.5' (H210753-22)

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	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.9 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 07 0-0.75' (H210753-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	03/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	211	106	200	1.98	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	208	104	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.9 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 07 0.75-1.5' (H210753-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 07 1.5'-2.5' (H210753-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTEx	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.7 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 08 0-1' (H210753-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.7 % 42.2-156

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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 09 0-1' (H210753-27)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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Analytical Results For:

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

Received: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 10 0-1' (H210753-28)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.4 % 42.2-156

Cardinal Laboratories

*=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: 03/25/2021
 Reported: 03/29/2021
 Project Name: MERCHANT A PAP
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 11 0-0.75' (H210753-29)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/25/2021	Sampling Date:	03/24/2021
Reported:	03/29/2021	Sampling Type:	Soil
Project Name:	MERCHANT A PAP	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 11 0.75-1.5' (H210753-30)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17		
Total BTX	<0.300	0.300	03/26/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Advance Energy Partners		P.O. #: 12242020-0110-dc	
Project Manager: Andrew Parker		Company: AEP	
Address: On-File		Attn: Send to	
City: State: Zip:		Address: Aparker@advance	
Phone #: Fax #:		City: energypartners.com	
Project #:		State: Zip:	
Project Name: 12242020-0139-dc		Phone #:	
Project Location: Merchant A PAP		Fax #:	
Sampler Name: Jacob Saenz		PRESERV	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :				
H210753	HA-01	0-1 FT	6			X							9am	X	X	X
1	HA-01	1-2 FT	1										9:15am			
2	HA-01	2-3 FT	1										9:30am			
3	HA-01	3-4 FT	1										9:45am			
4	HA-01	4-5 FT	1										10am			
5	HA-02	0-0.75 FT	1										11am			
6	HA-02	0.75-1.5 FT	1										11:15am			
7	HA-02	1.5-2.5 FT	1										11:30am			
8	HA-02	0-1 FT	1										11:45am			
9	HA-03	1-2 FT	1										12pm			

Relinquished By: <i>[Signature]</i>	Date: 3-25-21	Time: 1:20	Received By: <i>[Signature]</i>
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: 2.7c #113	Sample Condition	CHECKED BY: (Initials)
		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	

REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Advance Energy Partners		P.O. #: 123456-0130-dc	
Project Manager: Andrew Parker		Company: AEP	
Address: On-File		Attn: Send to	
City:	State:	Zip:	Address: Aparker@advance
Phone #:	Fax #:	City: energypartners.com	State: Zip:
Project #:	Project Owner:	Phone #:	Fax #:
Project Name: 12242020-0130-dc		PRESERV	
Project Location: Merchant APAB		SAMPLING	
Sampler Name: Jacob Saenz			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
#216753												
11	HA-03	2-3FT	6	X				3/24/21	12:38pm	X	X	X
12	HA-03	3-4FT							12:45pm			
13	HA-03	4.5FT						3/24/21	1:30pm			
14	HA-04	0-0.75FT							8:15am			
15	HA-04	0.75-1.5FT							8:30am			
16	HA-04	1.5-2.5FT							9am			
17	HA-05	0-0.75FT							9:30am			
18	HA-05	0.75-1.5FT							9:45am			
19	HA-05	1.5FT-2.5FT							10am			
20	HA-06	0-0.75FT										

Relinquished By: [Signature]	Date: 3-25-21	Received By: [Signature]	Date: 3-25-21
Relinquished By: [Signature]	Date: 3-25-21	Received By: [Signature]	Date: 3-25-21

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	YD.
8.70 #113	Yes <input type="checkbox"/> No <input type="checkbox"/>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: R.T. Hicks Consultants		P.O. #: 12343028-0134-26	
Project Manager: Andrew Parker		Company: R.T. Hicks	
Address: On-File		Attn: Send to	
City:	State: Zip:	Address: andrew@rthicks	
Phone #:	Fax #:	City: consult.com	
Project #:	Project Owner:	State: Zip:	
Project Name: 12343028-0130-26		Phone #:	
Project Location: Mecklenburg A PAB		Fax #:	
Sampler Name: Jacob Saenz			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HA10K53														
21 HA-06	0.75-1.5 FT	G	1											
23 HA-06	1.5-2.5 FT			X										
23 HA-07	0-0.75 FT													
24 HA-07	0.75-1.5 FT													
25 HA-07	1.50-2.5 FT													
26 HA-08	0-1 FT													
27 HA-09	0-1 FT													
28 HA-10	0-1 FT													
29 HA-11	0-0.75 FT													
30 HA-11	0.75-1.5 FT													

Relinquished By: [Signature]		Date: 8-25-21		Time: 1220		Received By: [Signature]		Date: 8-25-21		Time: 1220	
Relinquished By: [Signature]		Date: 8-25-21		Time: 1220		Received By: [Signature]		Date: 8-25-21		Time: 1220	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	8-76 #113

REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

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093



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

March 21, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: MERCHANT STATE A PAD

Enclosed are the results of analyses for samples received by the laboratory on 03/14/22 17:10.

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.

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:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.1 0-1' (H221018-01)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	2960	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.1 1-2' (H221018-02)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	320	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.1 2-4' (H221018-03)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.3 0-1' (H221018-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	2110	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.3 1-2' (H221018-08)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	272	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.3 2-4' (H221018-09)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEx	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.1 0-1' (H221018-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEx	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	13100	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.1 1-2' (H221018-11)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTEx	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2640	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.2 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.1 2-4' (H221018-12)

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	03/18/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/18/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.52	109	6.00	2.40		
Total BTEx	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.1 4.5' (H221018-13)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.2 0-1' (H221018-14)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	2260	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.2 1-2' (H221018-15)

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	03/17/2022	ND	2.00	100	2.00	1.14	
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40	
Total BTX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	368	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	202	101	200	7.93	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	226	113	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.2 2-4' (H221018-16)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	QM-07
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.3 0-1' (H221018-17)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEx	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	4360	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	15.4	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.3 1-2' (H221018-18)

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	03/17/2022	ND	2.00	100	2.00	1.14		
Toluene*	<0.050	0.050	03/17/2022	ND	2.10	105	2.00	4.09		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.01	101	2.00	2.55		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.52	109	6.00	2.40		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	640	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.3 2-4' (H221018-19)

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	03/17/2022	ND	1.98	99.2	2.00	6.61	
Toluene*	<0.050	0.050	03/17/2022	ND	2.13	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.09	104	2.00	3.66	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.76	113	6.00	3.48	
Total BTEx	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/17/2022	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.4 0-1' (H221018-20)

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	03/17/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/17/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/17/2022	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	2240	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 70.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4.4 1-2' (H221018-21)

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	03/17/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/17/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.1 0-1' (H221018-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/17/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.76	113	6.00	3.48		
Total BTEX	<0.300	0.300	03/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	2400	16.0	03/17/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	30.2	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.1 1-2' (H221018-23)

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	03/17/2022	ND	1.98	99.2	2.00	6.61	
Toluene*	<0.050	0.050	03/17/2022	ND	2.13	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	03/17/2022	ND	2.09	104	2.00	3.66	
Total Xylenes*	<0.150	0.150	03/17/2022	ND	6.76	113	6.00	3.48	
Total BTEX	<0.300	0.300	03/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	256	16.0	03/17/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.1 2-4' (H221018-24)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.2 0-1' (H221018-25)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	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	1890	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.7 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.2 1-2' (H221018-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	80.0	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.1 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5.2 2-4' (H221018-27)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6.1 0-1' (H221018-28)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	592	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 70.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 72.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6.1 1-2' (H221018-29)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6.2 0-1' (H221018-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	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	1070	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6.2 1-2' (H221018-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	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	96.0	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6.2 2-4' (H221018-32)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.3 0-1' (H221018-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	944	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/18/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/18/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.5 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.3 1-2' (H221018-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	256	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.9 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.3 2-4' (H221018-35)

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	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTX	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	128	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	201	100	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	184	92.1	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.2 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.4 0-1' (H221018-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1360	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	206	103	200	3.03	
DRO >C10-C28*	317	10.0	03/17/2022	ND	199	99.4	200	3.33	QM-07
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.4 1-2' (H221018-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	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	128	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	206	103	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	199	99.4	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	03/14/2022	Sampling Date:	03/11/2022
Reported:	03/21/2022	Sampling Type:	Soil
Project Name:	MERCHANT STATE A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020 - 0130 - DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.4 2-4' (H221018-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2022	ND	1.98	99.2	2.00	6.61		
Toluene*	<0.050	0.050	03/18/2022	ND	2.13	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	03/18/2022	ND	2.09	104	2.00	3.66		
Total Xylenes*	<0.150	0.150	03/18/2022	ND	6.76	113	6.00	3.48		
Total BTEx	<0.300	0.300	03/18/2022	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	64.0	16.0	03/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2022	ND	206	103	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/17/2022	ND	199	99.4	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	03/17/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ameterev Project Manager: Andrew Parker Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: 1242030-0130-DC Project Location: Merchant State APd Sampler Name: SACOB SNEWZ		BILL TO P.O. #: 1242030-0130-DC Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. H221018 Sample I.D.		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or from the use of the services, 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.		PRESERV. SAMPLING DATE TIME 3/11/2022 8:00 3/11/2022 8:15 3/11/2022 8:30 3/11/2022 8:45 3/11/2022 9:00 3/11/2022 9:15 3/11/2022 9:30 3/11/2022 9:45 3/11/2022 10:00	
Relinquished By: SACOB SNEWZ Relinquished By: 3-14-22 Date: 3-14-22 Time: 1710 Received By: [Signature] Received By: [Signature] Time:		ANALYSIS REQUEST Chloride TPH (GRO + DRO + MRO) Benzene, BTEX No Samples 3/21/22	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 26 Corrected Temp. °C 21 Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	
Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Thermometer ID: 1113 Correction Factor: -0.5°C Observed Temp. °C Corrected Temp. °C		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Thermometer ID: 1113 Correction Factor: -0.5°C Observed Temp. °C Corrected Temp. °C	
REMARKS: All Results are emailed. Please provide Email address:		REMARKS:	

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



Released to Imaging: 12/14/2022 4:20:27 PM



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ametecdev Project Manager: Andrew Parker Address: City: State: Zip: Phone #: Fax #: Project #:		P.O. #: 1242020-0130-dc Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
Project Name: 1242020-0130-dc Project Location: Merch and Blvd Sample Name: SACOB SHERZ		BILL TO ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME	MATRIX PRESERV. SAMPLING
31 HA-6.2 32 HA-6.2 33 HA-10.3 34 HA-10.3 35 HA-10.3 36 HA-10.4 37 HA-10.4 38 HA-10.4	1-2 FT 2-4 FT 0-1 FT 1-2 FT 2-4 FT 0-1 FT 1-2 FT 2-4 FT	3/1/2022 10:05 AM 10:14 AM 10:12 AM 10:18 AM 10:30 AM 10:45 AM 11:00 AM	Chloride TPH (GNO+PRO+MNO) Benzene, BTEX
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Relinquished By: SPCAB SHANE Date: 3-14-22 Time: 1710 Received By: Jamara Schell Date: 3-14-22 Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 26 Corrected Temp. °C: 21 Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) YS Turnaround Time: Standard Thermometer ID: #113 Correction Factor: -0.5°C Bacteria (only) Sample Condition: Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	

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



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

March 25, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MSU A PAD

Enclosed are the results of analyses for samples received by the laboratory on 03/23/22 14:15.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 1.1 0-2' (H221142-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2022	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	QM-07
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.0 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 1.1 2-4' (H221142-02)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	03/24/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.6 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 1.1 4.5' (H221142-03)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 1.2 0-2' (H221142-04)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 1.2 2-4' (H221142-05)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.3 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 1.2 4.5' (H221142-06)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.8 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 1.3 0-2' (H221142-07)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 1.3 2-4' (H221142-08)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.9 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 1.3 4.5' (H221142-09)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.2 0-1' (H221142-10)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.2 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 2.2 1-2' (H221142-11)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 2.2 2-4' (H221142-12)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.7 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 2.2 4.5' (H221142-13)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.6 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.1 0-2' (H221142-14)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 3.1 2-4' (H221142-15)

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	03/24/2022	ND	1.83	91.4	2.00	3.32	
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101	
Total BTX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.9 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.1 4.5' (H221142-16)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 105 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.2 0-2' (H221142-17)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 3.2 2-4' (H221142-18)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.2 4.5' (H221142-19)

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	03/24/2022	ND	1.83	91.4	2.00	3.32		
Toluene*	<0.050	0.050	03/24/2022	ND	2.15	108	2.00	0.769		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.14	107	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.92	115	6.00	0.101		
Total BTEx	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.2 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.3 0-2' (H221142-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEx	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	196	98.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.4	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.6 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 3.3 2-4' (H221142-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.0 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 3.3 4.5' (H221142-22)

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	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 7.1 0-2' (H221142-23)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.7 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7.1 2-4' (H221142-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.0 % 59.5-142

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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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7.1 4.5' (H221142-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28	
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.6 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 8.1 0-2' (H221142-26)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 8.1 2-4' (H221142-27)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28	
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 8.1 4.5' (H221142-28)

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	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEx	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.9 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 9.1 0-2' (H221142-29)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28	
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 9.1 2-4' (H221142-30)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28	
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.2 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 9.1 4.5' (H221142-31)

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	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEx	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.2 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.1 0-2' (H221142-32)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEx	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.6 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.1 2-4' (H221142-33)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.3 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 10.1 4.5' (H221142-34)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 111 % 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:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10.2 0-2' (H221142-35)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTEx	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 10.2 2-4' (H221142-36)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28	
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98	
Total BTX	<0.300	0.300	03/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.8 % 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: 03/23/2022
 Reported: 03/25/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 03/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 10.2 4.5' (H221142-37)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2022	ND	1.80	89.8	2.00	4.28		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	3.98		
Total BTX	<0.300	0.300	03/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	216	108	200	1.86	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	191	95.5	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

Z-01	GRO failed high. GRO ND in all samples.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		P.O. #: 1242020-0130-dc		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		Company: " "					
Address: On-File		Attn: " "					
City: " "		Address: " "					
Phone #: " "		City: " "					
Project #: " "		State: " "					
Project Name: 1242020-0130-dc		Phone #: " "					
Project Location: MSU APAD		Fax #: " "					
Sampler Name: Jacob Saenz							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
H221142	HA-1.1	0-2FT	1	GROUNDWATER			9/22/22	9:30am	X	X	X
	HA-1.1	2-4FT	1	WASTEWATER				9:45am	X	X	X
	HA-1.1	4-5FT	1	SOIL				9:50am	X	X	X
	HA-1.2	0-2FT	1	OIL				10:00am	X	X	X
	HA-1.2	2-4FT	1	SLUDGE				10:19am	X	X	X
	HA-1.2	4-5FT	1	OTHER :				10:20am	X	X	X
	HA-1.3	0-2FT	1	ACID/BASE:				10:30am	X	X	X
	HA-1.3	2-4FT	1	ICE / COOL				10:40am	X	X	X
	HA-1.3	4-5FT	1	OTHER :				10:45am	X	X	X
	HA-2.2	0-1FT	1					11am	X	X	X

Relinquished By: [Signature]	Date: 9/29/22	Received By: [Signature]	Date: 9/29/22
Relinquished By: [Signature]	Time: 1415	Received By: [Signature]	Time: 1415
Delivered By: (Circle One) 4.2c	2.0.5c	Sample Condition	CHECKED BY: (Initials) Y.O.
Sampler - UPS - Bus - Other:	3.7c #113	Cool Intact	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
REMARKS:			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: 12242020-0130-dc Project Location: M54 A P40 Sampler Name: Jacob Sacenz		BILL TO P.O. #: 12242020-0130-dc Company: Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST	
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Relinquished By: [Signature] Date: 7/29/22 Time: 1415 Received By: [Signature] Date: 7/29/22 Time: 1415		FOR LAB USE ONLY			
Lab I.D.		Sample I.D.		MATRIX	
H221142 11 HA-2.2 12 HA-2.2 13 HA-2.2 14 HA-3.1 15 HA-3.1 16 HA-3.1 17 HA-3.2 18 HA-3.2 19 HA-3.2 20 HA-3.3		1-2 FT 2-4 FT 4-5 FT 0-2 FT 2-4 FT 4-5 FT 0-2 FT 2-4 FT 4-5 FT 0-2 FT		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE 7/29/22		DATE 7/29/22		TIME 11:10 AM 11:15 AM 11:20 AM 11:25 AM 11:30 AM 11:45 AM 11:50 AM 12:00 PM 12:10 PM 12:15 PM	
CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX		[Analysis Results]			
Delivered By: (Circle One) 4.2°C C-0.5°C 3.7°C #113 Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____ REMARKS:			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: 18242020-0130-dc Project Location: M54 A Pad Sampler Name: Jacob Sacruz		BILL TO P.O. #: 18242020-0130-dc Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		PRESERV SAMPLING	
Lab I.D. H221142	Sample I.D. 21 HA-3.3 22 HA-3.3 23 HA-7.1 24 HA-7.1 25 HA-7.1 26 HA-8.1 27 HA-8.1 28 HA-8.1 29 HA-9.1 30 HA-9.1	2-4FT 4-5FT 0-2FT 2-4FT 4-5FT 0-2FT 2-4FT 4-5FT 0-2FT 2-4FT	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE 3/29/22	TIME 12:25pm 12:30pm 12:35pm 12:40pm 12:45pm 12:50pm 12:55pm 1:00pm 1:05pm 1:10pm
CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX					

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Relinquished By: [Signature] **Date:** 3/23/22 **Received By:** [Signature] **Date:** 3/29/22

Relinquished By: [Signature] **Date:** 3/23/22 **Received By:** [Signature] **Date:** 3/29/22

Delivered By: (Circle One) 4.2c C-O.S.C. **Sample Condition** ☒ Cool ☐ Intact ☐ Yes ☐ No **CHECKED BY:** [Signature] (Initials) Y.E.

Sampler - UPS - Bus - Other: 3.7c #113 **Sample Condition** ☒ Cool ☐ Intact ☐ Yes ☐ No **CHECKED BY:** [Signature] (Initials) Y.E.

REMARKS:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: 12242020-0130-DC Project Location: M54 A 601 Sampler Name: Jacob Saenz		BILL TO P.O. #: 12242020-0130-DC Company: Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST			
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D. H221142	Sample I.D. HA-9.1 HA-10.1 HA-10.1 HA-10.1 HA-10.2 HA-10.2 HA-10.2	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME	CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX			
31	HA-9.1	4.5FT	1-15pm				
32	HA-10.1	0-2FT	1-20pm				
33	HA-10.1	2-4FT	1-25pm				
34	HA-10.1	4-5FT	1-30pm				
35	HA-10.2	0-2FT	1-35pm				
36	HA-10.2	2-4FT	1-40pm				
37	HA-10.2	4.5	1-55pm				

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Relinquished By: [Signature] **Date:** 7/25/22 **Received By:** [Signature] **Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By: [Signature] **Date:** 7/25/22 **Received By:** [Signature] **Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**
Time: **Time:**
Delivered By: (Circle One) 4.2c ☒ C.O.S. ☐ Cool ☐ Intact **Sample Condition:** ☒ Yes ☐ No **CHECKED BY:** [Signature] (Initials)
Sampler - UPS - Bus - Other: 37c #113 ☐ Yes ☐ No **REMARKS:**



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

April 19, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: 12242020-0130-DC

Enclosed are the results of analyses for samples received by the laboratory on 04/12/22 16:20.

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.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 01 0-2' (H221513-01)

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	04/15/2022	ND	2.06	103	2.00	2.20	
Toluene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.35	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.11	102	6.00	1.91	
Total BTEX	<0.300	0.300	04/15/2022	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	288	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	198	98.9	200	3.84	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	187	93.6	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 01 2-4' (H221513-02)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.20		
Toluene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.35		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.11	102	6.00	1.91		
Total BTEx	<0.300	0.300	04/15/2022	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	5040	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	198	98.9	200	3.84	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	187	93.6	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 01 4.5' (H221513-03)

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	04/15/2022	ND	2.06	103	2.00	2.20		
Toluene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.35		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.11	102	6.00	1.91		
Total BTX	<0.300	0.300	04/15/2022	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	1260	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	198	98.9	200	3.84	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	187	93.6	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 101 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 03 0-2' (H221513-04)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTEx	<0.300	0.300	04/15/2022	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	80.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	198	98.9	200	3.84	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	187	93.6	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 03 2-4' (H221513-05)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTEX	<0.300	0.300	04/15/2022	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	64.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	203	102	200	12.4	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	226	113	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 03 4.5' (H221513-06)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTEx	<0.300	0.300	04/15/2022	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	80.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	203	102	200	12.4	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	226	113	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 10.1 SE 0-2' (H221513-07)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTEX	<0.300	0.300	04/15/2022	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	80.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	203	102	200	12.4	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	226	113	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 10.1 SE 2-4' (H221513-08)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTEX	<0.300	0.300	04/15/2022	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	80.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	203	102	200	12.4	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	226	113	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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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:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/19/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 10.1 SE 4.5' (H221513-09)

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	04/15/2022	ND	1.98	98.9	2.00	0.707		
Toluene*	<0.050	0.050	04/15/2022	ND	1.97	98.4	2.00	0.602		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.89	94.3	2.00	0.639		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.91	98.5	6.00	0.297		
Total BTX	<0.300	0.300	04/15/2022	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	64.0	16.0	04/14/2022	ND	432	108	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	04/14/2022	ND	203	102	200	12.4	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	226	113	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners

Project Manager: Andrew Parker

Address: On-File

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: 1242000-0130-de

Project Location:

Sampler Name: Jacob Saenz

FOR LAB USE ONLY

P.O. #: 1242000-0130-de

Company: AEP

Attn: Send to

Address: Aparker@advance

City: energypartners.com

State: Zip:

Phone #:

Fax #:

Lab I.D. **Sample I.D.**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
HA-01	HA-01	0-2ft	9	✓								4-12-22	8:00am	✓	✓	✓
HA-01	HA-01	2-4ft	1	✓									8:05am	✓	✓	✓
HA-01	HA-01	4-6ft	1	✓									8:10am	✓	✓	✓
HA-03	HA-03	0-2ft	1	✓									10:00am	✓	✓	✓
HA-03	HA-03	2-4ft	1	✓									10:10am	✓	✓	✓
HA-03	HA-03	4-6ft	1	✓									10:20am	✓	✓	✓
HA-10.1SE	HA-10.1SE	0-2ft	1	✓									10:30am	✓	✓	✓
HA-10.1SE	HA-10.1SE	2-4ft	1	✓									10:40am	✓	✓	✓
HA-10.1SE	HA-10.1SE	4-6ft	1	✓									10:50am	✓	✓	✓

Relinquished By: J. Saenz **Date:** 4-12-22 **Received By:** J. Saenz

Relinquished By: **Date:** **Received By:**

Delivered By: (Circle One) 5108 ✓ C-O-52 **Sample Condition**

Sampler - UPS - Bus - Other: 5108 #113 **Cool** ☒ Yes ☐ No **Intact** ☒ Yes ☐ No

Checked By: (Initials) **REMARKS:**



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

July 05, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MSU A PAD

Enclosed are the results of analyses for samples received by the laboratory on 06/30/22 9:03.

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.

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".

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:	06/30/2022	Sampling Date:	06/29/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 01 4.5' (H222802-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	06/30/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	07/01/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	07/01/2022	ND					

Surrogate: 1-Chlorooctane 61.8 % 43-149

Surrogate: 1-Chlorooctadecane 72.5 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/29/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	MSU A PAD	Sampling Condition:	Cool & Intact
Project Number:	12242020-0130-DC	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: HA - 01 5.5' (H222802-02)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEx	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	06/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	07/01/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	07/01/2022	ND					

Surrogate: 1-Chlorooctane 67.6 % 43-149

Surrogate: 1-Chlorooctadecane 79.5 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 01 6.5' (H222802-03)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEx	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	06/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 43-149

Surrogate: 1-Chlorooctadecane 76.5 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 01.1 4.5' (H222802-04)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	06/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 43-149

Surrogate: 1-Chlorooctadecane 88.6 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 01.1 5.5' (H222802-05)

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	07/01/2022	ND	2.04	102	2.00	3.90		
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61		
Total BTEX	<0.300	0.300	07/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	06/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 01.1 6.5' (H222802-06)

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	07/01/2022	ND	2.06	103	2.00	4.06		
Toluene*	<0.050	0.050	07/01/2022	ND	2.05	102	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.04	102	2.00	4.60		
Total Xylenes*	<0.150	0.150	07/01/2022	ND	6.20	103	6.00	4.70		
Total BTX	<0.300	0.300	07/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	06/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 43-149

Surrogate: 1-Chlorooctadecane 84.1 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 10.1 0-4' (H222802-07)

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	07/01/2022	ND	2.06	103	2.00	4.06	
Toluene*	<0.050	0.050	07/01/2022	ND	2.05	102	2.00	3.80	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.04	102	2.00	4.60	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	6.20	103	6.00	4.70	
Total BTEx	<0.300	0.300	07/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/30/2022	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	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 78.1 % 42.5-161

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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: 06/30/2022
 Reported: 07/05/2022
 Project Name: MSU A PAD
 Project Number: 12242020-0130-DC
 Project Location: NONE GIVEN

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 03.3 4.5' (H222802-08)

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	07/01/2022	ND	2.06	103	2.00	4.06		
Toluene*	<0.050	0.050	07/01/2022	ND	2.05	102	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.04	102	2.00	4.60		
Total Xylenes*	<0.150	0.150	07/01/2022	ND	6.20	103	6.00	4.70		
Total BTX	<0.300	0.300	07/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/30/2022	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	06/30/2022	ND	214	107	200	0.614	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	211	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 43-149

Surrogate: 1-Chlorooctadecane 83.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners
Project Manager: Andrew Parker

Address: On-File

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: 12242020-0130-dc

Project Location: MSN A Perol

Sample Name: Jacob Saenz

BILL TO

P.O. #: 12242020-0130-dc

Company: AEP

Attn: Send to

Address: aparker@

City: ameredev.com

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

12242020

1

2

3

4

5

6

7

8

HA-01

HA-01

HA-01

HA-01

HA-01

HA-01

HA-01

HA-01

4.5FT

5.5FT

6.5FT

4.5FT

5.5FT

6.5FT

8-4FT

4.5FT

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CHLORIDE

TPH (GRO+DRO+MRO)

BENZENE, BTEX

11:00am

11:15am

11:45am

12:30pm

12:45pm

1:00pm

1:30pm

1:45pm

2:00pm

2:15pm

2:30pm

2:45pm

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Relinquished By: SAcab SAEN Date: 6/30/20 Time: 0903
Received By: Spedeigney

Relinquished By: _____ Date: _____ Time: _____
Received By: _____

Delivered By: (Circle One) UPS 4:30 PM - 0.5°C Sample Condition: Cool Intact Yes Yes CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: 38°C #113 Yes Yes No No

REMARKS: _____

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

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July 15, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: 12242020-0130-DC

Enclosed are the results of analyses for samples received by the laboratory on 07/12/22 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	12242020-0130-DC	Sampling Condition:	Cool & Intact
Project Number:	MSU A PAD	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: BACKFILL (H222996-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEx	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	07/14/2022	ND	432	108	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 86.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: Advance Energy Partners Project Manager: Andrew Parker Address: On-File City: Phone #: State: Zip: Project #: Project Name: 1342020-0130-8c Project Location: MSN A Pnd Sampler Name: Jacob Saenz		BILL TO P.O. #: 1342020-0130-8c Company: AEP Attn: Send to Address: aparker@ City: ameredev.com State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D.		MATRIX <input type="checkbox"/> (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input checked="" type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :	
Relinquished By: Date: 7-22-22 Time: 10:44 Received By: Steadiguer Date: Time: Relinquished By: Date: Time:		SAMPLING DATE 7/13/22 TIME 2:04 PM CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX	
Delivered By: (Circle One) 4.9c/C-0.6c Sampler - UPS - Bus - Other: 4.3c #113 Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:		ANALYSIS REQUEST	

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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 128530

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 128530
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/14/2022