

Incident ID	nAPP2036563650
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: November 4, 2021

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: Robert Hamlet

Date: 3/7/2022

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: Robert Hamlet Date: 3/7/2022

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



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

November 4, 2021

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

RE: Closure Report
Incident #: nAPP2036563650
AEP #: 12042020-1430-dc
Location: Merchant "B" Pad/Merchant State Unit 604H

Dear Mr. Hamlet,

Thank you for approval of the Merchant State Unit 604H (#nAPP2036563650) remediation plan. In response to the conditions of approval set forth in NMOCD's July 19, 2021 remediation plan approval; Advance Energy Partners (AEP) submits this closure report and respectfully asks for closure of the regulatory file.

In compliance with the conditions of approval, included is the revised depth to water determination.

Depth to Water Determination

In September/October 2021, Advance Energy initiated a depth-to-water boring program to determine whether depth-to-water is present in the upper 100-feet of the surface soil profile. Nine (9) boreholes were advanced between 103 to 105-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring to the subject release is located 0.33-miles east. No groundwater was detected within the upper 100-feet. Plate 2 (revised) is an updated depth-to water map. The borehole is identified as MISC-404 and is logged as CP-1887 in the OSE database. The driller log is located in Appendix A.

Confirmation Soil Sampling

In compliance with the remediation plan approval, additional soil samples were collected at locations shown on Plate 12. The additional soil samples were collected on July 28-29, 2021; using mechanical and hand auger sampling technologies.

Soil samples exhibited chloride and hydrocarbon concentration below Closure Criteria (Table 1 of 19.15.29 NMAC) for release areas in-use on an active production site used for oil and gas operations; where depth to water is greater than 100-feet. The two samples exhibiting the

Incident #: nAPP2036563650

AEP #:12042020-1430-dc

highest chloride concentrations are presented in Exhibit 1, below.

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria										
0 - 4 feet & "not in-use"					600	--	2,500	10	50	
> 4 ft or "in-use"					20,000	1,000	2,500	10	50	
CB-09.03	7/28/2021		0	1	2760	<20	<30	<0.05	<0.3	Caliche, Sand
CB-09.03	7/28/2021		1	2	320	<20	<30	<0.05	<0.3	Sand, moist
CB-10	3/14/2021	0.00			2960	<20	<30	<0.05	<0.3	Caliche
CB-10	3/14/2021	1.00			704	<20	<30	<0.05	<0.3	Caliche

Exhibit A: Chloride and hydrocarbon concentrations exhibiting the two highest chloride concentrations. Chloride concentrations are below Closure Criteria for a release located on an active production site. Refer to Table 1 for a summary of analytical for all sample points.

At all sample locations, chloride and hydrocarbon (if detected) concentrations decreased with depth. Table 1 is a summary of analytical results. Table 2 are the GPS coordinates for sample points. Appendix B contains the laboratory Certificate of Analysis for the additional sampling event.

Per 19.15.29.12.C.(2) NMAC and the approved remediation plan, no additional remediation was required. Boreholes were backfilled with auger cuttings and capped with caliche to restore the surface to an active production site per 19.15.29.13.B. When the production site is no longer in-use for oil & gas operations the release area will be remediated, restored, and reclaimed per 19.15.29.13.D.

Please contact us with any questions.

Sincerely,
Advance Energy Partners Hat Mesa, LLC



Andrew Parker
Env. Scientist

Copy: Randy Black; Advance Energy Partners Hat Mesa, LLC
Braden Harris; Advance Energy Partners Hat Mesa, LLC
Merchant Livestock Company

11/04/2021

Incident ID	nAPP2036563650
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Closure

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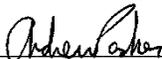
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
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- Description of remediation activities

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Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: November 4, 2021

email: aparker@advanceenergypartners.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: _____

Printed Name: _____

Title: _____

Andrew Parker

From: Andrew Parker
Sent: Friday, July 23, 2021 8:00 AM
To: Enviro, OCD, EMNRD
Cc: Hamlet, Robert, EMNRD
Subject: 48 hour sampling notice for Incident nAPP2036563650

NMOCD,

Please accept this email as the 48 hour soil sampling notice for Incident nAPP2036563650 at the Merchant State Unit 604H location.

AEP#: 12042020-1430-dc

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, July 19, 2021 3:48 PM
To: Andrew Parker <AParker@advanceenergypartners.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 25949

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#) nAPP2036563650, with the following conditions:

- **The Workplan/Remediation Plan is approved with the following conditions: Please make sure all groundwater data is included in closure report summary. Soil samples will need to meet Table 1 Closure Criteria for proven depth to water determination (>100'). Closure samples should be representative of no more than 400 ft2. The samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH, defining the edge of the release.**

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

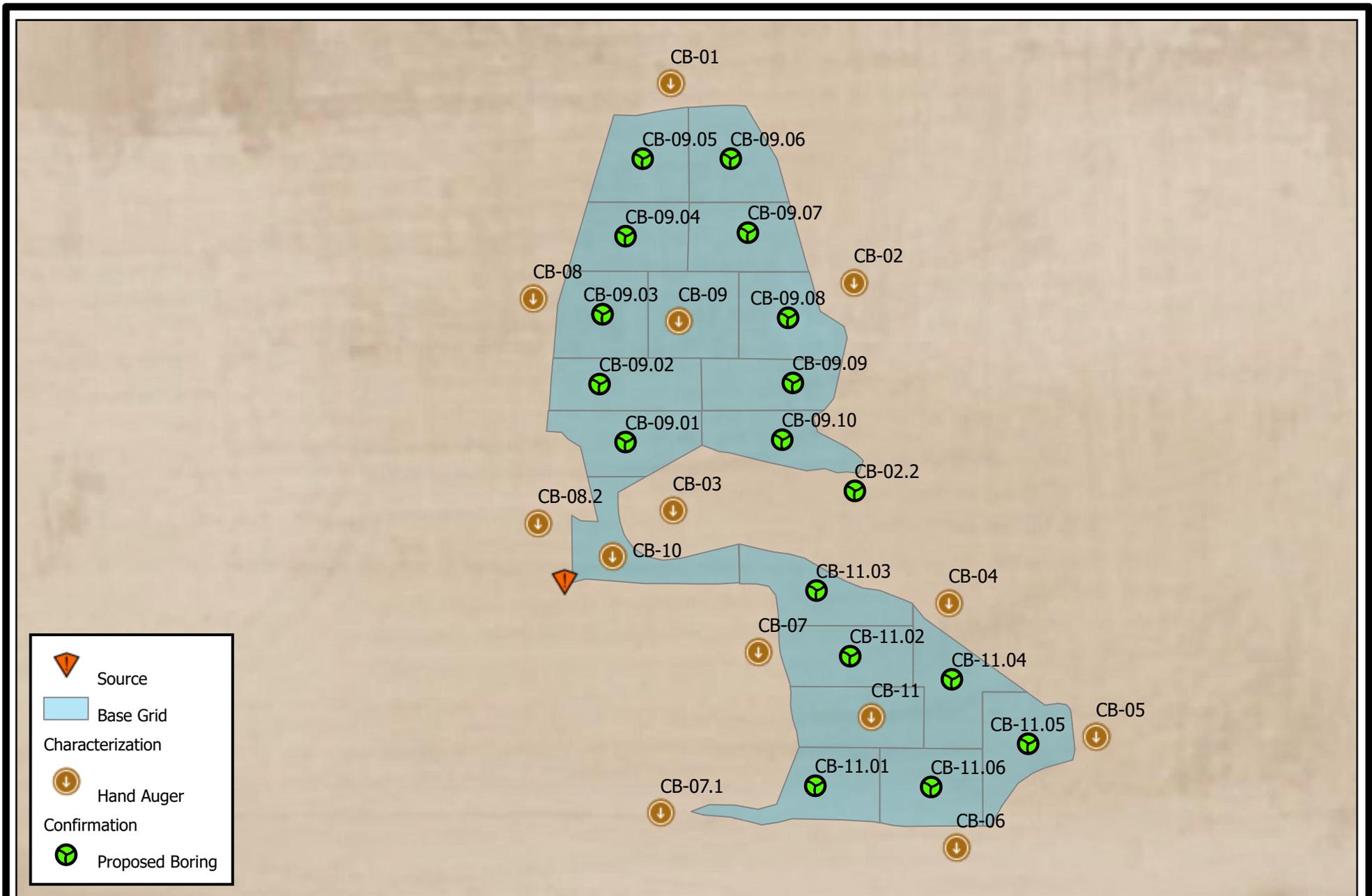
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Plates





Depth to Water Merchant "B" Pad/Merchant State Unit 604H	Plate 2 (revised)
Incident #: nAPP2036563650 AEP# 12042020-1430-dc	Release Date 12/04/2020



0 20 40 US Feet



Proposed Confirmation Sample Locations

Plate 12

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

Release Date
12/04/2020

Tables



Table 1
Summary of Analytical

Incident #: nAPP2036563650
AEP #: 12042020-1430-dc
Location: Merchant "B" Pad/Merchant State Unit 604H

Sample ID	Date	Area	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												
0 - 4 feet & "not in-use"						600	--	2,500	10	50		
> 4 ft or "in-use"						20,000	1,000	2,500	10	50		
CB-01	3/13/2021	Perimeter	0.00			1550	<34.2	<44.2	<0.05	<0.3	Cardinal	H210700
CB-01	3/13/2021	Perimeter	1.00			160	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-01.5	3/13/2021	Background	0.00			480	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-01.5	3/13/2021	Background	1.00			32	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-02	3/13/2021	Perimeter	0.00			528	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-02	3/13/2021	Perimeter	1.00			80	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-02.2	7/29/2021	Perimeter		0	1	128	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-02.2	7/29/2021	Perimeter		1	2	1100	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-02.2	7/29/2021	Perimeter		2	4	144	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-03	3/14/2021	Perimeter	0.00			640	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-03	3/14/2021	Perimeter	1.00			336	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-03	3/14/2021	Perimeter	2.00			112	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-04	3/14/2021	Perimeter	0.00			368	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-04	3/14/2021	Perimeter	1.00			64	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-05	3/14/2021	Perimeter	0.00			336	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-05	3/14/2021	Perimeter	1.00			48	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-06	3/14/2021	Perimeter	0.00			672	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-06	3/14/2021	Perimeter	1.00			48	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-07	3/14/2021	Perimeter	0.00			1920	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-07	3/14/2021	Perimeter	1.00			352	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-07.1	3/14/2021	Perimeter	0.00			256	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-07.1	3/14/2021	Perimeter	1.00			80	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-08	3/14/2021	Perimeter	0.00			608	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-08	3/14/2021	Perimeter	1.00			208	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-08	3/14/2021	Perimeter	2.00			32	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-08.2	3/14/2021	Perimeter	0.00			304	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-08.2	3/14/2021	Perimeter	1.00			32	<20	<30	<0.05	<0.3	Cardinal	H210700

Table 1
Summary of Analytical

Incident #: nAPP2036563650
AEP #: 12042020-1430-dc
Location: Merchant "B" Pad/Merchant State Unit 604H

Sample ID	Date	Area	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												
0 - 4 feet & "not in-use"						600	--	2,500	10	50		
> 4 ft or "in-use"						20,000	1,000	2,500	10	50		
CB-09	3/14/2021	Release	0.00			736	<87.9	<141.4	<0.05	<0.3	Cardinal	H210700
CB-09	3/14/2021	Release	1.00			48	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-09.01	7/28/2021	Release		0.00	1.00	608	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.01	7/28/2021	Release		1.00	2.00	448	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.01	7/28/2021	Release		2	4	144	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.02	7/28/2021	Release		0	1	1310	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.02	7/28/2021	Release		1	2	1550	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.02	7/28/2021	Release		2	4	368	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.03	7/28/2021	Release		0	1	2760	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.03	7/28/2021	Release		1	2	320	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.04	7/28/2021	Release		0	1	288	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.04	7/28/2021	Release		1	2	32	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.05	7/28/2021	Release		0	1	1020	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.05	7/28/2021	Release		1	2	96	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.06	7/28/2021	Release		0	1	656	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.06	7/28/2021	Release		1	2	64	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.07	7/28/2021	Release		0	1	944	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.07	7/28/2021	Release		1	2	48	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.08	7/28/2021	Release		0	1	112	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.08	7/28/2021	Release		1	2	320	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.08	7/28/2021	Release		2	4	320	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.08	7/28/2021	Release	5			48	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.09	7/28/2021	Release		0	1	128	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.09	7/28/2021	Release		1	2	432	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.09	7/28/2021	Release		2	4	672	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.09	7/28/2021	Release	5			64	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.10	7/28/2021	Release		0	1	1460	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.10	7/28/2021	Release		1	2	1250	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-09.10	7/28/2021	Release		2	4	64	<20	<30	<0.05	<0.3	Cardinal	H211995
CB-10	3/14/2021	Release	0.00			2960	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-10	3/14/2021	Release	1.00			704	<20	<30	<0.05	<0.3	Cardinal	H210700

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NMOCD Closure Criteria												
0 - 4 feet & "not in-use"						600	--	2,500	10	50		
> 4 ft or "in-use"						20,000	1,000	2,500	10	50		
CB-11	3/14/2021	Release	0.00			160	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-11	3/14/2021	Release	1.00			32	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-11.01	7/29/2021	Release		0	1	160	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.01	7/29/2021	Release		1	2	432	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.01	7/29/2021	Release		2	4	16	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.02	7/29/2021	Release		0	1	48	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.02	7/29/2021	Release		1	2	112	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.03	7/29/2021	Release		0	1	624	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.03	7/29/2021	Release		1	2	112	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.04	7/29/2021	Release		0	1	64	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.04	7/29/2021	Release		1	2	144	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.05	7/29/2021	Release		0	1	16	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.05	7/29/2021	Release		1	2	32	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.06	7/29/2021	Release		0	1	80	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.06	7/29/2021	Release		1	2	272	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-11.06	7/29/2021	Release		2	4	128	<20	<30	<0.05	<0.3	Cardinal	H212014
CB-1000	3/15/2021	Background		0.00	0.25	384	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-1000	3/15/2021	Background		0.25	0.75	64	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-2000	3/15/2021	Background		0.00	0.25	240	<20	<30	<0.05	<0.3	Cardinal	H210700
CB-2000	3/15/2021	Background		0.25	0.75	80	<20	<30	<0.05	<0.3	Cardinal	H210700

Sample ID	Latitude	Longitude
Source	32.44155084	-103.543377
CB-01	32.44185816	-103.5432968
CB-1.5	32.4424977	-103.5434637
CB-02	32.44173437	-103.5431643
CB-02.2	32.44160607	-103.5431651
CB-03	32.44159487	-103.5432974
CB-04	32.44153639	-103.5430971
CB-05	32.4414533	-103.5429906
CB-06	32.44138558	-103.543093
CB-07	32.44150695	-103.5432359
CB-07.1	32.44140836	-103.5433081
CB-08	32.44172611	-103.5433979
CB-08.2	32.4415874	-103.5433956
CB-09	32.44171155	-103.5432923
CB-09.01	32.44163723	-103.5433317
CB-09.02	32.44167309	-103.5433503
CB-09.03	32.44171613	-103.5433478
CB-09.04	32.44176417	-103.5433306
CB-09.05	32.44181188	-103.5433177
CB-09.06	32.44181148	-103.5432536
CB-09.07	32.4417658	-103.5432415
CB-09.08	32.44171309	-103.5432127
CB-09.09	32.44167294	-103.5432096
CB-09.10	32.44163797	-103.5432177
CB-10	32.44156666	-103.5433417
CB-11	32.44146658	-103.5431541
CB-11.01	32.44142441	-103.5431954
CB-11.02	32.44150414	-103.5431694
CB-11.03	32.44154479	-103.5431935
CB-11.04	32.44148945	-103.5430955
CB-11.05	32.44144934	-103.5430403
CB-11.06	32.44142315	-103.5431111
CB-1000	32.44252115	-103.5438774
CB-2000	32.44250814	-103.5443431

Appendix A

Driller Logs





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

08/29/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1887 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1887 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

USE DIT NOV 1 2021 PM 2:43



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1887		
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700		
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX	ZIP 77077
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 26	29.53	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	103	32	14.57	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NE NE Sec. 35 T21S R33E							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 10/07/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 103	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	103	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

USE 311 N30 2021 pnc12.3

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	POD NO.	TRN NO.			
LOCATION			WELL TAG ID NO.	PAGE 1 OF 2	

2021-10-27_CP-1887_OSE_Well Record and Log-for sign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAJbvrfK4AaOE3rMPE3Q4ETnuBZ8bY6U0w

"2021-10-27_CP-1887_OSE_Well Record and Log-for sign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:56:13 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:57:38 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:15:46 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:16:29 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:16:29 PM GMT

OSE SIGNATURE 2021-10-29





PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1887-POD1

Well owner: Advanced Energy Partners Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Stuit 950

City: Houston State: Texas Zip code: 77077

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Carmelo Trevino, Cameron Pruitt
- 4) Date well plugging began: 10-14-2021 Date well plugging concluded: 10-14-2021
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 29.53 sec
Longitude: 103 deg, 32 min, 14.57 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 103 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 07/12/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	15.6 gallons	15 gallons	Augers	
10'-103'	Drill Cuttings	Approx. 147 gallons	147gallons	Boring	

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MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

III. SIGNATURE:

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

Jackie Atkins

10/27/2021

Signature of Well Driller

Date

2021-10-27_CP-1887_WD-11 Plugging Record-forsign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAdCweMFDf8Y1erfSiXmrU36TYmU-GuTyP

"2021-10-27_CP-1887_WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:56:37 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:57:47 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:15:04 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:15:31 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:15:31 PM GMT

CSE DT NOV 2 2021 PM 4:43



Appendix B

Certificate of Analysis





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

August 03, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MERCHANT C PAD #604H

Enclosed are the results of analyses for samples received by the laboratory on 07/29/21 8:10.

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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.01 0-1' (H211995-01)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	608	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.01 1-2' (H211995-02)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.01 2-4' (H211995-03)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.02 0-1' (H211995-04)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	1310	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.02 1-2' (H211995-05)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.02 2-4' (H211995-06)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	368	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.03 0-1' (H211995-07)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	2760	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.03 1-2' (H211995-08)

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	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	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	320	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.3 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.04 0-1' (H211995-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.0 % 38.9-142

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

Received:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.04 1-2' (H211995-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/30/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	32.0	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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

Received:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.05 0-1' (H211995-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/31/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/31/2021	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	1020	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.05 1-2' (H211995-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/31/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.06 0-1' (H211995-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/31/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	656	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.7 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.06 1-2' (H211995-14)

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	07/31/2021	ND	1.97	98.6	2.00	0.862	
Toluene*	<0.050	0.050	07/31/2021	ND	2.12	106	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.14	102	6.00	0.699	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2021	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	07/30/2021	ND	223	112	200	1.77	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	203	101	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.07 0-1' (H211995-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75		
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94		
Total BTEX	<0.300	0.300	07/30/2021	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	944	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313		
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND						

Surrogate: 1-Chlorooctane 77.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.5 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.07 1-2' (H211995-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75		
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94		
Total BTEX	<0.300	0.300	07/30/2021	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	48.0	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313		
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND						

Surrogate: 1-Chlorooctane 76.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.8 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.08 0-1' (H211995-17)

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	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.9 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.08 1-2' (H211995-18)

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	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.3 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.08 2-4' (H211995-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	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	320	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.08 5' (H211995-20)

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	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.4 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.09 0-1' (H211995-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	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	128	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.1 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.09 1-2' (H211995-22)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75		
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94		
Total BTEX	<0.300	0.300	07/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	432	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313		
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND						

Surrogate: 1-Chlorooctane 77.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.09 2-4' (H211995-23)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75		
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94		
Total BTEX	<0.300	0.300	07/30/2021	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	672	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313		
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND						

Surrogate: 1-Chlorooctane 77.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.09 5' (H211995-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	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	64.0	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.8 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.10 0-1' (H211995-25)

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	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	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	1460	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.7 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.10 1-2' (H211995-26)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.17	109	2.00	1.75		
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94		
Total BTEX	<0.300	0.300	07/30/2021	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	1250	16.0	07/30/2021	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	07/30/2021	ND	213	107	200	0.313		
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND						

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/28/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042020-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 09.10 2-4' (H211995-27)

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	07/30/2021	ND	2.17	109	2.00	1.75	
Toluene*	<0.050	0.050	07/30/2021	ND	2.33	116	2.00	2.73	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.23	111	2.00	2.75	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.66	111	6.00	2.94	
Total BTEX	<0.300	0.300	07/30/2021	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	07/30/2021	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	07/30/2021	ND	213	107	200	0.313	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	187	93.5	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.3 % 38.9-142

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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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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

BILL TO

ANALYSIS REQUEST

Company Name: Advance Energy Partners	P.O. #: 12042020-1430-dc
Project Manager: Andrew Parker	Company: AEP
Address: On-File	Attn: Send to
City: State: Zip:	Address: A.parker@advance
Phone #: Fax #:	City: energypartners.com
Project #: Project Owner:	State: Zip:
Project Name: 12042020-1430-dc	Phone #: Fax #:
Project Location: Merchant C Pad AGO4H	
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 :					
H211995	1 CB-09.01	0-1FT	6							7/08/21	14:10	X	X	X
	2 CB-09.01	1-2FT	1	X							14:15	X	X	X
	3 CB-09.01	2-4FT	1								14:20	X	X	X
	4 CB-09.02	0-1FT	1								14:30	X	X	X
	5 CB-09.02	1-2FT	1								14:35	X	X	X
	6 CB-09.02	2-4FT	1								14:40	X	X	X
	7 CB-09.03	0-1FT	1								14:45	X	X	X
	8 CB-09.03	1-2FT	1								14:50	X	X	X
	9 CB-09.04	0-1FT	1								15:00	X	X	X
	10 CB-09.04	1-2FT	1								15:05	X	X	X

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Relinquished By: SBlog SAEN2 Date: 7-29-21 Received By: Jessica Delgado

Time: 0810

Delivered By: (Circle One) UPS - UPS - Bus - Other: STC #113

Sample Condition: Cool Intact Yes No Yes No Checked BY: JD

† 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
 Project Manager: Andrew Parker
 Address: On-File
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: 12042020-1430-dc
 Project Location: Meriband CPad #104H
 Sampler Name: Jacob Saenz
 P.O. #: 12042020-1430-dc
 Company: AEP
 Attn: Send to
 Address: A.parker@advance
 City: energypartners.com
 State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Date	Time	MATRIX					DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL					
H211995													
11	CB-09.05	0-1FT											
12	CB-09.05	1-2FT											
13	CB-09.06	0-1FT											
14	CB-09.06	1-2FT											
15	CB-09.07	0-1FT											
16	CB-09.07	1-2FT											
17	CB-09.08	0-1FT											
18	CB-09.08	1-2FT											
19	CB-09.08	2-4FT											
20	CB-09.08	5FT											

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Relinquished By: *[Signature]*
 Date: 7-29-21
 Time: 0810
 Received By: *[Signature]*

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 5.22 #113
 Sample Condition: Cool Intact
 Yes No
 Yes No
 CHECKED BY: *[Signature]*

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



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August 03, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MERCHANT C PAD #604H

Enclosed are the results of analyses for samples received by the laboratory on 07/29/21 15:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 02.2 0-1' (H212014-01)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.3 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 02.2 1-2' (H212014-02)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	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	1100	16.0	08/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.6 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 02.2 2-4' (H212014-03)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	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	144	16.0	08/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.01 0-1' (H212014-04)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	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	160	16.0	08/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.0 % 38.9-142

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Analytical Results For:

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

Received:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.01 1-2' (H212014-05)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.2 % 38.9-142

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Analytical Results For:

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

Received:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.01 2-4' (H212014-06)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	16.0	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.9 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.02 0-1' (H212014-07)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.02 1-2' (H212014-08)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.6 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.03 0-1' (H212014-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	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	624	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.03 1-2' (H212014-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	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	112	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.04 0-1' (H212014-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.04 1-2' (H212014-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.05 0-1' (H212014-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.05 1-2' (H212014-14)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.2 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.06 0-1' (H212014-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.1 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.06 1-2' (H212014-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.9 % 38.9-142

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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:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	MERCHANT C PAD #604H	Sampling Condition:	Cool & Intact
Project Number:	12042021-1430-DC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CB 11.06 2-4' (H212014-17)

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	07/31/2021	ND	2.00	99.8	2.00	7.28	
Toluene*	<0.050	0.050	07/31/2021	ND	2.14	107	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/31/2021	ND	2.06	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	07/31/2021	ND	6.20	103	6.00	5.66	
Total BTEX	<0.300	0.300	07/31/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/02/2021	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	07/31/2021	ND	217	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/31/2021	ND	212	106	200	0.924	
EXT DRO >C28-C36	<10.0	10.0	07/31/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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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

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

P.O. #: 12042021-1430-dc

Company Name: Advance Energy Partners
 Project Manager: Andrew Parker
 Address: On-File
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: 12042021-1430-dc
 Project Location: Merkhof Pad Gov H
 Sampler Name: Jacob Saenz

FOR LAB USE ONLY
 Lab I.D. Sample I.D.
 H212014
 1 CB-03.2 0-1FT 6 1 (G)RAB OR (C)OMP.
 2 CB-03.2 1-2FT 1 1 # CONTAINERS
 3 CB-03.2 2-4FT 1 1 GROUNDWATER
 4 CB-11.01 0-1FT 1 1 WASTEWATER
 5 CB-11.01 1-2FT 1 1 SOIL
 6 CB-11.01 2-4FT 1 1 OIL
 7 CB-11.02 0-1FT 1 1 SLUDGE
 8 CB-11.02 1-2FT 1 1 OTHER:
 9 CB-11.03 0-1FT 1 1 ACID/BASE:
 10 CB-11.03 1-2FT 1 1 ICE / COOL
 DATE TIME 7/29/01 08:15 CHLORIDE
 08:20 08:25 TPH (GRO+DRO+MRO)
 08:35 08:40 BENZENE, BTEX
 08:45 09:55
 09:00
 09:15
 09:25

Matrix: SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ACID/BASE, ICE / COOL, OTHER:
 Attn: Send to
 Address: A.parker@advance
 City: energypartners.com
 State: Zip:
 Phone #: Fax #:

Relinquished By: [Signature]
 Date: 7-29-01
 Time: 1550
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

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

† 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
 Project Manager: Andrew Parker
 Address: On-File
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: 12042021-1430-dc
 Project Location: Merchant C fld 604 H
 Sampler Name: Jacob Saenz
 P.O. #: 12042021-1430-dc
 Company: AEP
 Attn: Send to
 Address: A.parker@advance
 City: energypartners.com
 State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H21204		G	1			X				7/29/21	09:25	X		
11	CB-11.04								X					
12	CB-11.04										09:30			
13	CB-11.05										09:40			
14	CB-11.05										09:45			
15	CD-11.06										10:00			
14	CB-11.06										10:05			
17	CB-11.06										10:10			

PLEASE NOTE: Liability and Damages, Cardinal's liability and direct exclusive remedy for any claim arising under this contract or bill, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*
 Date: 7-29-21
 Time: 15:50
 Received By: *[Signature]*
 Date: *[Blank]*
 Time: *[Blank]*

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

REMARKS:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 466 #113
 Sample Condition: Cool Hot Intact
 CHECKED BY: (Initials) *[Signature]*

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

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

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

CONDITIONS
 Action 60283

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 60283
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2036563650 12042020-1430-DC MSU 604H, thank you. This closure is approved.	3/7/2022