

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

Transmittal Letter

November 5, 2021

RE: Closure report not recorded in OCD Imaging Incident ID: nAB1916835666 AEP #: 05252019-0000-unknown Location: Merchant State Unit #504H Tank Battery

NMOCD:

During an internal audit of closure report status Advance Energy Partners (AEP) identified eight closure reports not recorded in OCD Imaging. AEP is resubmitting these closure reports via the online fee portal.

The remediation and closure report for Incident nAB1916835666 was completed on August 15, 2019. Since the completion of the remediation and closure report, AEP conducted a depth-to-water determination program discussed below.

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 106-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring is located 270-feet east-northeast of the release. The boring is identified as MISC-404 (CP-1887). No groundwater was detected within the upper 100-feet. Figure 2 (revised) is an updated depth-to-water map. The driller log is attached.

AEP respectfully asks NMOCD for closure of the regulatory file with deferment. The C-141 Closure Form is attached.

Sincerely,

Andrew Parker Environmental Scientist

Received by OCD: 11/16/2021 5:43:02 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 2 of 15
Incident ID	nAB1916835666
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? Plate 4 & 5	<u>154</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 11/2	16/2021 5:43:02 AM			Page 3 of 152
Form C-141	State of New Mexico		Incident ID	nAB1916835666
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
I hereby certify that the regulations all operators public health or the env failed to adequately inv addition, OCD acceptar and/or regulations. Printed Name:A Signature:A email: _aparker@adv	e information given above is true and complete to the rs are required to report and/or file certain release not vironment. The acceptance of a C-141 report by the vestigate and remediate contamination that pose a thr nce of a C-141 report does not relieve the operator of <u>ndrew Parker</u>	e best of my knowledge a ifications and perform co OCD does not relieve the eat to groundwater, surfa f responsibility for compl <u>Sr. Env. Specialist</u> Date:Nover Telephone:97	nd understand that pursu prrective actions for rele operator of liability sho ce water, human health iance with any other feo nber 5, 2021	ant to OCD rules and ases which may endanger build their operations have or the environment. In leral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 11/16/2021 5:43:02 AM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	nAB1916835666
District RP	
Facility ID	
Application ID	

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Page 5

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferred Decreases Only: Each of the following items must be confirmed as part of any request for deferred of remediation							
Deterrar Requests Only. Each of the following tems must be confirmed as part of any request for deferrar of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Andrew Parker Title: Sr. Env. Specialist							
Signature: Date: Date: November 5, 2021							
OCD Only							
Received by: Date:							
Approved Approved with Attached Conditions of Approval Denied Deferral Approved							
Signature: Date:							

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Page 6

Oil Conservation Division

Incident ID	nAB1916835666
District RP	
Facility ID	
Application ID	

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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 in	tems 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	C 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 comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the O	te to the best of my knowledge and understand that pursuant to OCD rules n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.						
Printed Name: <u>Andrew Parker</u> Title:	Sr. Env. Specialist						
Signature: Adventation	Date:November 5, 2021						
email: <u>aparker@advanceenergypartners.com</u>	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: <u>Nelson Velez</u>	Date: 01/07/2022						
Printed Name:	Title:Environmental Specialist – Adv						

Received by OCD: 11/16/2021 5:43:02 AM

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M:__Pending NMOCD\05252019-0000-unknown\arcgisPro504H\arcgisPro504H.aprx



Released to Imaging: 1/7/2022 12:04:10 PM

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

Groon Middlam

Lucas Middleton

Enclosures: as noted above

052 077 NOV 1 2021 M4, 43

WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO POD1 (T	. (well no W-1)	.)	w n/	ELL TAG ID NO. a		- 7	OSE FILE NO(CP-1887	S).			
OCATI	WELL OWNER NAME(S) Advanced Energy Partners							PHONE (OPTIONAL) 832.672.4700				
VELL L	WELL OWN 11490 Wes	er Mailing Stheimer F	ADDRESS Rd. Stuit 950					CITY STATE ZIP Houston TX 77077				ZIP
L AND V	WELL			GREES 32	MINUTES 26	SECON 29.5	DS i3 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A S	ECOND	
NERA	(FROM GP	S) LOI	NGITUDE	103	32	14.5	57 W	* DATUM RE	QUIRED: WGS 84			
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	LICENSE NO. NAME OF LICENSED DRILLER 1249 Jackie D. Atkins								NAME OF WELL DR Atkins Eng	ILLING CO	OMPANY Associates, I	nc.
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NOIT	DRILLING FI	UID:	AIR	MUD	ADDITIVE	ES - SPEC	IFY:					
RMA	DRILLING M	ETHOD:	ROTARY	HAMMER CABLE TOOL TOTHER - SPECIFY:		R – SPECIFY:	Hollow Stem Auger					
INFO	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR CA		ASING	CASING CASING WALL		NG WALL	SLOT		
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FOP	OSE INTER	NALUSE		1				WR-2	0 WELL RECORD	& LOG	Version 06/3	0/17)
FILI	E NO.				POD NO.			TRN	NO.			
LOC	ATION							WELL TAG I	D NO.		PAGE	1 OF 2

	DEPTH (i	feet bgl)		COLOR AN	D TYPE OF MATERIAL I	INCOUN	TERED -		WAT	Ŧ₽	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE (attach sup	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						WATER- BEARING ZONES (gpm)
	0	19	19	Sand, Fine-grai	ned, poorly graded, with Ca	liche " T	annish White		Y	√ N	
	19	29	10	Sano	l, Fine-grained, poorly grad	ed, Brov	'n		Y	√ N	
	29	103	74	Sand, Fine-grained, Poorly graded, with clay, Reddish Brown				Y	√ N		
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NO	WELL TEST WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.									METHOD, DD.	
MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to the feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.									tal depth to ten to surface.		
EST	PRINTNAM	E(S) OF D	RILL RIG SUPPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERV	ISION O	F WELL CON	STRUC	TION OT	HER TH	AN LICENSEE
5 . T	Shane Eldridge, Carmelo Trevino, Cameron Pruitt										
ATURE	THE UNDER CORRECT F AND THE P	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:									
6. SIGN	Jack A	tkins		Jao	ckie D. Atkins				10/27	/2021	
_		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
FOI	R OSE INTER	VAL LISE					WR-20 WF	LL REC	0RD & I	OGIVe	rsion 06/30/2011
FIL	E NO.	ML USE			POD NO.		TRN NO.				SIGH 00/30/201/
						-					

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" Hist ory

- 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

052 017 NOU 1 2021 PMG 43





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:

			1007 2024						
State	Engineer Well	Number: CP	-1887-POD1						
Well	owner: Advar	iced Energy P	artners			Ph	one No.: _8	32.672.4700	
Maili	ing address: 1	1490 Westheir	ner Rd. Stuit 950						
City:	Houston			State:		Texas		Zip code:	77077
•				_					
пм	VELL PLUGO	ING INFOR	MATION						
1)	Name of w	ell drilling cor	npany that plugge	ed well: <u>Ja</u>	ckie D. A	tkins (Atkin	s Engineeri	ng Associates I	nc.)
2)	New Mexi	o Well Drille	License No.: 12	249			Exp	iration Date: _)4/30/23
3)	Well plugg Shane Eid	ing activities v ridge, Carmelo	were supervised b Trevino, Camero	y the follow on Pruitt	ving well	driller(s)/ri	g superviso	r(s):	
4)	Date well p	lugging begar	: <u>10-14-2021</u>		Date	well pluggir	ng conclude	d: <u>10-14-202</u>	1
5)	GPS Well	Location:	Latitude: Longitude:	32 103	deg, deg,	26 m 32 m	in, <u>29.5</u> in, <u>14.5</u>	3 sec 7 sec, WGS	84
6)	Depth of w by the follo	ell confirmed	at initiation of plu weighted tape	igging as: _	103	_ ft below	ground leve	l (bgl),	
7)	Static wate	r level measur	ed at initiation of	plugging:	n/a	ft bgl			
8)	Date well p	olugging plan o	of operations was	approved by	y the Sta	te Engineer	07/12/20	21	
9)	Were all pl differences	ugging activiti between the a	es consistent with pproved plugging	n an approve g plan and th	ed pluggi ne well as	ing plan? s it was plug	Yes gged (attach	If not, p additional page	lease describe es as needed):
								SSE STEWALT	9891 BAR
									te dis Manual P Many , La Ma
1									

Version: September 8, 2009 Page 1 of 2 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.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>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'	August 447 april 200	447	Parias	
	Drill Cuttings	Approx. 147 gailons	147galions	Boring	
-					
_					
_					
-					
-				131	017 NGU 1 2021 PM4143
		cubic feet x 7.4 cubic yards x 201.5	1805 = gallons 197 = gallons		

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, <u>Jackie D. Atkins</u>, 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.

Jack Atkins

10/27/2021

Date

Signature of Well Driller

.

Version: September 8, 2009 Page 2 of 2

2021-10-27_CP-1887_WD-11 Plugging Recordforsign

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

CASE DIT NOV 1 2021 M4.43



August 15, 2019

1RP-5544 Closure Report MSU 504/505H Tank Battery



Prepared for Advance Energy Partners Hat Mesa LLC Houston, Texas

Prepared by R.T. Hicks Consultants, Ltd. Albuquerque, New Mexico

Released to Imaging: 1/7/2022 12:04:10 PM

C-141 Closure Form and Report

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1916835666
District RP	1RP-5544
Facility ID	
Application ID	pAB1916832985

Release Notification

Responsible Party

Responsible Party Advance Energy Partners Hat Mesa LLC	OGRID 372417
Contact Name David Harwell	Contact Telephone 281-235-3431
Contact email <u>dharwell@advanceenergypartners.com</u>	Incident # (assigned by OCD) NAB1916835666
Contact mailing address 11490 Westheimer Rd, Ste 950, Houston,	TX 77077

Location of Release Source

Latitude 32.441020

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Merchant State Unit 504 Battery	Site Type Production Battery
Date Release Discovered 5/25/2019	API# (if applicable) 30-025-45267

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

Surface Owner: State Federal Tribal Private (Name: Merchant Livestock Co._____)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 90 bbls	Volume Recovered (bbls) 80 bbls
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Oil overflowed through an open gas sales line while oil was being transferred to the battery for initial startup. Oil was outside the containment area. All free oil was recovered with a vac truck that was onsite at the time of the release.

			Incident ID	NAB1916835666
e 2	Oil Conservation Divisio	on	District RP	1RP-5544
			Facility ID	
			Application ID	pAB1916832985
Was this a major elease as defined by .9.15.29.7(A) NMAC?	If YES, for what reason(s) does the re > 25 bbls	esponsible party conside	er this a major release?	?
XYes 🗌 No				
f YES, was immediate n	otice given to the OCD? By whom? T	o whom? When and by	what means (phone, o	email, etc)?
Yes, by email to :** "This email to All immed	il is to provide notification that Advance Energy Partners Hat Mesa iate actions have been completed"	had a major oil release today at the MSL	J 504 battery during initial startup oper	rations.
emnrd-ocd-district1spills	@state.nm.us			
	Initia	l Response		
171		L -	to a calate 1	Id nomile in interme
The responsible	party must undertake the following actions imme	valately unless they could crea	ue a sajety hazard that wou	ua result in injury
\square The source of the rele	ease has been stopped.			
🔀 The impacted area ha	s been secured to protect human health	and the environment.		
-	•			
Z Released materials have	we been contained via the use of berm	or dikes absorbent na	de or other containme	nt devices
Released materials ha	we been contained via the use of berms	s or dikes, absorbent pac	ds, or other containme	nt devices.
\boxtimes Released materials hat \boxtimes All free liquids and respectively.	ave been contained via the use of berms ecoverable materials have been remove	s or dikes, absorbent pac d and managed appropr	ds, or other containme riately.	nt devices.
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Released materials has All free liquids and rough If all the actions described	ave been contained via the use of berms ecoverable materials have been remove d above have <u>not</u> been undertaken, exp	s or dikes, absorbent pac ed and managed appropr lain why:	ds, or other containme iately.	nt devices.
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>154</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗶 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔀 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

Received by OCD: 11/16	/2021 5:43:02 AM				Page 19 of 152
F01111 C-141	C-141 State of New Mexico			Incident ID	
Page 5	ge 5 Oil Conservation Divis	n		District RP	
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I hereby certify that the in regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: <u>_Andr</u> Signature: <u>David An</u> email: <u>_andrew@rth</u>	formation given above is true and complete to the required to report and/or file certain release is forment. The acceptance of a C-141 report by the tigate and remediate contamination that pose a task of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator of a C-141 report does not relieve the operator operat	the best of motifications the OCD does threat to grou- of responsi Title: Date: Teleph	y knowledge a and perform co not relieve the indwater, surfa oility for comp Sr. Env. S	nd understand that purs orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

X Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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

 \overline{X} Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

 \mathbf{X} Extents of contamination must be fully delineated.

 \mathbf{X} Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Andrew Parker	Title: <u>Sr. Env. Specialist</u>
Signature: David Andrew Parker DN: cn=David Andrew Parker DN: cn=David Andrew Parker, o, ou, email=andrew@rthicksconsult.com, c=US Date: 2019;08:14 15:00:44 -06'00'	Date:
email: <u>andrew@rthicksconsult.com</u>	Telephone:970-570-9535
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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. $\overline{\mathbf{X}}$ A scaled site and sampling diagram as described in 19.15.29.11 NMAC A 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) X 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: <u>Andrew Parker</u> Title: <u>Sr. Env. Specialist</u>
Signature: Digitally signed by David Andrew Parker
Date: 2019.08.14 15:01:22 -06'00'
Date: _____ email: <u>andrew@rthicksconsult.com</u> 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:
 Nelson Velez
 Date:
 01/07/2022

 Printed Name:
 Nelson Velez
 Title:
 Environment

 Title: Environmental Specialist – Adv

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996 Artesia ▲ Carlsbad ▲ Durango ▲ Midland

August 15, 2019

NMOCD District 1 (vacant)Bradford BillingsDistrict 1 - HOBBSEnvironmental Bureau1625 N. French Drive1220 South St. Francis DriveHobbs, New Mexico 88240Santa Fe, New Mexico 87505Via Email:Via Email:emnrd-ocd-district1spills@state.nm.usbradford.billings@state.nm.us

RE: 1RP-5544 - Characterization and Closure Report 504/505H Merchant State Unit Tank Battery Release Advance Energy Partners Hat Mesa, LLC

NMOCD:

R.T. Hicks Consultants submits this characterization, remediation and closure report on the behalf of Advance Energy Partners Hat Mesa, LLC (Advance Energy).

The release occurred on May 25, 2019. Initial characterization began on June 6, 2019 and remediation was completed by July 02, 2019. The C-141 including the Characterization and Closure Forms is attached.

We respectfully ask NMOCD for :

- Deferment approval for the area under the tank battery, and
- Closure of the regulatory file for the non-deferred area.

Hick Consultants relied on 19.15.29 NMAC for characterization, remediation, and closure reporting for the above referenced release.

The location of the release is 32.441020, -102.527472 (Latitude/Longitude; NAD 83); Unit Letter B, Sec 35, T-21S., R-33E; Lea County.

The release occurred within silty sands with a hard caliche layer at 4.5 to 5.5 feet below ground surface.

The report is divided into three sections:

- I. Initial Response
- II. Characterization
- III. Remediation and Closure

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Figures

- Figure 1 Site Map with Initial Characterization Sample Locations
- Figures 2 through 10 As labeled on the C-141 Characterization Checklist
- Figure 11 Remediation Extent with Confirmation Sample Grid

Tables

- Table 1 Nearby OSE Well Summary
- Table 2 Initial Sampling Data
- Table 3 Final Excavation Confirmation Sampling Data

Appendices

- Appendix A Laboratory Certificate of Analyses
- Appendix B OSE Well Logs

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I. Initial Response

The release occurred on May 25, 2019. Eighty of ninety barrels of crude oil was recovered. The upper few inches of impacted soil were removed and stockpiled for offsite disposal during remediation activities.

R.T. Hicks Consultants characterized and delineated the release on June 06, 2019. The release flowed along the southern edge of the tank battery containment wall and downslope to the southern edge of the pad. Pooling occurred at the southeast edge of disturbance (Photo #1). The release extent is shown on Figure 1. Hand auger sample HA-08 was obtained within the southeast area of pooling.



Photo 1: Crude oil release viewing from the southern edge of the tank battery containment. Photograph is viewing east-southeast. Date: May 25, 2019

Table 1 is a summary of analytical data collected during the initial characterization. Appendix A contains the laboratory Certificates of Analyses.

Results of the characterization soil sampling are discussed in *Section II.5 Soil Waste Characteristics*, below.

II. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1-4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Figures 2-10).

1. Site Map

Horizontal extent was determined by photographs obtained by Advance Energy personnel immediately after the release and by recent surface removal and grading of impacted soil. Figure 1 shows the release and excavation extent relative to

- the release point (source)
- hand auger samples during characterization
- flow lines and tank batteries
- release and excavation extent

2. Depth to Ground Water

Most recent depth to water data was queried from the USGS and New Mexico Office of the State Engineer (OSE) online databases (Figure 2). Spatial analysis shows:

- The nearest water well is located 1.2-miles northeast of the release; identified as CP-00600 (POD 1). Two nearby wells, MISC-71 and USGS-15399 are likely the same well. These wells lie within a drainage and at the western base of Gamma Ridge. The observed ground water is likely a localized perched groundwater zone. Depth to water at this well cluster in approximately 56-feet below ground surface (bgs).
- The next two nearest water wells with recorded depth to water are located
 - 1.69-miles northwest (CP-01355 POD 1) with a depth to water of 582-feet.
 - 1.75-miles northwest (CP-01357 POD 1) with a depth to water of 578- feet.

Review of well logs available from the New Mexico Office of the State Engineer (OSE) online database (Table 1) shows that the regional depth to the top of the water-bearing zone exceeds 700 feet below land surface, as shown in the "top of water bearing strata" column. Appendix B contains well logs available online from the OSE.

OSE well logs show that water wells that are representative of the regional area have a minimum of 155 feet of pressure head above the confining layer. It is important to recognize that at CP-01355 POD1 ground water is at a depth of 925 feet and confining pressure causes the water column to rise 343 feet for a perceived depth to water of 582 feet bgs.

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Ground water flow is to the southwest as demonstrated on the potentiometric map (Figure 3). We relied on the USGS water wells to generate the potentiometric surface. Regionally, USGS water wells show that ground water is within the Santa Rosa and Chinle Formation.

The potentiometric surface indicates that the depth to water, which is under artesian flow, is approximately 154-feet below ground surface, where

154 feet = 3664 ft surface elevation - 3510 ft potentiometric surface.

3. Wellhead Protection Area

Figure 4 shows that the release extent is <u>not</u>:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ¹/₂-mile private and domestic water sources (wells and springs).
 - CP-01411 (POD1) is ¹/₂-mile from the release extent. BC Operating is the owner of the well and the OSE database lists the use as "Exploration".
- Within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes
- Within 1000 feet of any other fresh water well or spring

4. Distance to Nearest Significant Water Course

Figure 5 shows that the release extent is <u>not</u>:

- Within ¹/₂ mile of any significant water course.
- Within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and within:

- a pipeline ROW,
- tank battery and well pad area of disturbance (Photo #2), and
- adjacent to and south of a tank battery

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Photo 2: Release extent along southern edge of area of disturbance viewing east. Initial response surface grading is visible in foreground. GPS: 32.4411361N, -103.5389639W. Date/Time: 2019-06-06 15:45:34

Advance Energy elected to reclaim (not in-use) all impacted soils rather than to restore the surface for areas in-use.

Table 1 19.15.29 NMAC		Chloride	GRO+DRO	TPH+Ext	BTEX	Benzene
DTW > 100ft		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Closure Criteria	0-4 ft (not in-use)	600	1,000	2,500	50	10
Closure Criteria	>4 ft or "in-use"	20,000	1,000	2,500	50	10

According to Table 1 of 19.15.29 NMAC, closure criteria limits are as follows:

Recent surface grading from immediate spill response and soil sampling was employed to delineate and characterize the release extent. Figure 1 shows the release extent and characterization hand auger sample locations HA-01 through HA-08.

Initial soil samples were obtained using a hand auger to a depth of 5.5 feet bgs (Photo #3).

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Photo 3: HA-07 at the source of the release near the southeast corner of the tank battery containment. Date/Time: 2019-06-06 17:43:32. GPS: 32.4412083 N , -103.5385278 W

Table 2 shows the analytical results of the initial characterization sampling. Chloride concentrations were below NMOCD's Table 1 Closure Criteria. Hydrocarbon constituents exceeded Closure Criteria at HA-05 and HA-07.

The Laboratory Certificate of Analyses are located in Appendix A.

Hand auger sampling and excavation showed the lithology as:

0 - 5.5 ft : Silty Sand, medium brown, loose.

5.5 ft : Caliche, white, dense.

III. Remediation and Closure

1. Excavation Protocol

All surfaces were remediated in accordance with 19.15.29.13 NMAC with the exception of a 20-foot long section underneath the southwest tank battery containment wall, near the source of the release (sample points HA-07/G-14), which is discussed in more detail below.

The excavation was gridded with centroids of each grid spaced 20-feet +/- 5 feet on-center. Figure 11 shows the sample grid centroids G-01 through G-14.

Five-point composite soil samples were collected at the north, south, east, and west walls of the excavation grid from 0 to 4 feet. If soil sample results exceeded Closure Criteria at the excavation walls, the excavation wall was extended horizontally and resampled. Horizontal excavation continued until subsequent sampling showed chloride and hydrocarbon constituents below Closure Criteria. Excavation depth was determined by 5-point composite sampling of the grid's base. Vertical excavation continued until the base of the excavation exhibited constituents of concern below Table 1 Closure Criteria concentrations.

Excavated soil was transported to Lea Land, Inc. or R360 for proper disposal. Clean backfill soil was purchased from the land owner under a Surface Use Agreement.

2. Remediation Activities

The excavation extent is L-shaped and covers a surface area of 816 square yards with an excavated volume of approximately 1,000 cu. yards.

Table 3 is a summary of analytical of confirmation sampling for each grid. Grids G-01 through G-13 and G-14 (base and east wall only) excavation walls and bases exhibit:

- TPH (GRO/DRO) < 100 mg/kg
- TPH Ext. (GRO/DRO/MRO) < 100 mg/kg
- Benzene < 10 mg/kg
- BTEX < 50 mg/kg

At grid G-14 Containment Wall (north wall) that is adjacent to and underneath the southeastern corner of the tank battery containment wall (source area), TPH exceeds Table 1 Closure Criteria, where

- TPH (GRO/DRO) exhibits 3157 mg/kg
- TPH Ext. exhibits 3728 mg/kg

from 0 to 2 feet below ground surface (bgs). From 2 to 4.5 feet bgs TPH is below laboratory detection levels. Chloride, BTEX and Benzene is below Closure Criteria from 0 to 4.5 feet.

Per 19.15.29.12.C(2),

If contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations...

Photo #4 shows that G-14 Containment Wall is located immediately under production tanks. Therefore, we ask NMOCD for deferment of this 2 x 20-foot wall section. Final remediation and reclamation shall take place in accordance

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with 19.15.29.12 and 19.15.29.13 NMAC after the tank battery is decommissioned and is no longer being used for oil and gas operations.



Photo 4: The red box outlines G-14 Containment Wall (north wall) that is located immediately underneath the tank battery's southern containment wall. Excavation depth is 4.5 feet. TPH exceeds Table 1 Closure Criteria from 0 to 2 feet. The caliche pad is approximately 1-foot thick. G-13 is to the left (west) of G-14 (red outline). Date/Time: 2019-06-25 18:31:01. GPS: 32.4411722 N , -103.5385194 W.

Photo 5, 6 and 7, below, are photographs of the excavation and backfill.

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Photo 5: Excavation from G-01 viewing south toward G-04. A pipeline (G-02) is visible foreground center. Excavation depth from north to south is 4.5, 6.5, 7.5 and 5 feet below ground surface. Date/Time: 2019-06-19 09:06:56. GPS: 32.4412639 N, -103.5382778 W



Photo 6: Backfilled excavation south of the tank battery, viewing west-southwest from G-14 East Wall. Date/Time: 2019-07-08 08:39:52. GPS: 32.4411306N, -103.5384667 W

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Photo 7: Backfilled excavation viewing east from G-11. Date/Time: 2019-07-08 08:42:17 GPS: 32.4411667 N $\ ,\ -103.5388806$ W

Please contact me with any questions at <u>andrew@rthicksconsult.com</u> or 970-570-9535.

Sincerely, R.T. Hicks Consultants, Ltd.

dentaker

Andrew Parker Sr. Env. Specialist

Copy: David Harwell (DHarwell@advanceenergypartners.com) Advance Energy Partners Hat Mesa, LLC Clabe Pearson (clabe@merchantlivestock.com); Merchant Livestock Brad Blevins (bblevins5252@gmail.com); Merchant Livestock

Figures

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	Remediation Extent
USGS	Gauging Station (DTW, Date)
Aquife	er Code, Well Status
٨	Alluvium/Bolsom
	Chinle
Misc.	Water Wells (Well ID, DTW)
Well [Depth (ft)
•	No Data
OSE V	Vater Wells (DTW/Date)
Well [Depth (ft)
۲	<=150
۲	151-350
0	501-1000
0	<1000
NM G	eology
Map L	Jnit, Description
	Qe, Quaternary-Eolian Deposits, Qe, Quaternary-Eolian Deposits
	Qe/Qp, Quaternary-Eolian Piedmont Deposits
	Qp, Quaternary-Piedmont Alluvial Deposits, Qp, Quaternary-Piedmont Alluvial Deposits
	Qpl, Quaternary-Lacustrine and Playa Deposits, Qpl, Quaternary-Lacustrine and Playa Deposits
	To, Tertiary-Ogallala Formation, To, Tertiary-Ogallala Formation

R.T. Hicks Consultants, Ltd	Depth to Water with Geology	Figure 2 LEGEND
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Poter	tiometric Surface (ft msl)
Isoco	ntours
¢	Isocontour
USGS	Gauging Station (GW Elev, Date)
Aquif	er Code, Well Status
-	Alluvium/Bolsom
	Alluviu/Bolsom, Site was being pumped.
	Ogallala
	Chinle
-	Santa Rosa
*	Capitan
Misc.	Water Wells (GW Elev, Date)
Well I	Depth (ft)
•	No Data
NM G	eology
Map I	Jnit,Description
	Qe, Quaternary-Eolian Deposits, Qe, Quaternary-Eolian Deposits
	Qe/Qp, Quaternary-Eolian Piedmont Deposits
1	Qp, Quaternary-Piedmont Alluvial Deposits, Qp, Quaternary-Piedmont Alluvial Deposits
	Qpl, Quaternary-Lacustrine and Playa Deposits, Qpl, Quaternary-Lacustrine and Playa Deposits
	To, Tertiary-Ogallala Formation, To, Tertiary-Ogallala Formation

R.T. Hicks Consultants, Ltd	Potentiometric Surface with Geology	Figure 3 LEGEND
Albuquerque, NM 87104 Ph: 505.266.5004	Advance Energy Partners Hat Mesa, LLC 1RP-5544. 504/505H Tank Battery Release	August 2019

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Tables

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Table 1: OSE Water Well Log Data Summary									
POD Number	Date	Top of Water Bearing Strata	Bottom of Water Bearing Strata	Depth to Water	Source	Height Above Confining Layer			
		Feet	Feet	Feet		Feet			
CP 00600	4/17/1940	NR	65	37	Shallow				
CP 00854	6/22/1996	755	890	600	Artesian	155			
CP 01349 POD 1	7/18/2014	960	1188	572	Artesian	388			
CP 01355 POD 1	7/29/2014	925	1185	582	Artesian	343			
CP 01356 POD 1	8/9/2014	765	1092	555	Artesian	210			
CP 01357 POD 1	8/26/2014	945	1286	578	Artesian	367			
CP 1411 POD 1	10/14/2014	800	1145	NA	Artesian	NA			

.

Sample ID	Date	Matrix	Discrete Denth	Ton Denth	Bottom Denth	Chloride	GRO+DRO	TPH Fyt	Benzene	BTFX	Comments
Sample 10	Date	(Soil/Water)	(Feet)	(Feet)	(Feet)	(PPM)	(PPM)	(PPM)	(PPM)	(PPM)	connents
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
HA-01	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	E. Extent
HA-02	6/6/2019	Soil		0.0	2.0	32	<20	<30	<0.05	<0.3	S. Central Extent
HA-03	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	SE Extent
HA-04	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	NE Extent
HA-05	6/6/2019	Soil		1.0	2.0	32	10370	11590	8.43	280	E. Pipeline Trench
HA-05	6/6/2019	Soil		2.0	4.0	16	5040	5649	3.7	169	E. Pipeline Trench
HA-05	6/6/2019	Soil	4.5			16	<20	<30	<0.05	<0.3	E. Pipeline Trench
HA-06	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	W. of Source
HA-07	6/6/2019	Soil		0.0	2.0	192	7840	8699	23.2	281	Source
HA-07	6/6/2019	Soil		2.0	4.0	48	567	580.7	0.619	15.4	Source
HA-07	6/6/2019	Soil	5.5			64	139.7	<149.7	0.084	1.78	Source
HA-08	6/6/2019	Soil		0.0	2.0	64	338.1	<348.1	0.75	21.1	Pooling area SE
HA-08	6/6/2019	Soil		2.0	4.0	16	78.5	<88.5	<0.05	0.466	Pooling area SE
HA-08	6/6/2019	Soil	5.5			<16	<20	<30	<0.05	<0.30	Pooling area SE

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Table 3 Summary of Analytical Confirmation Sampling

Sample ID	Date	Matrix (Soil/Water)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
G-01 Base	6/19/2019	Soil	4.5			16	<20	<30	<0.05	<0.30	
G-01 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-01 N. Wall	6/19/2019	Soil		0.0	4.0	16	<20	<30	<0.05	<0.30	
G-01 W. Wall	6/19/2019	Soil		0.0	4.0	16	<20	<30	<0.05	<0.30	
G-02 Base	6/19/2019	Soil	6.5			16	<71.6	<81.6	<0.05	<0.30	
G-02 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-02 W. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-03 Base	6/19/2019	Soil	5			32	1276	1475	<0.1	13.2	REMOVED
G-03 Base	6/25/2019	Soil	7.5			64	<20	<30	<0.05	<0.30	
G-03 E. Wall	6/19/2019	Soil		0	4	<16	<21.1	<31.7	<0.05	<0.30	
G-03 W. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-04 Base	6/19/2019	Soil	5			32	<20	<30	<0.05	<0.30	
G-04 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-04 S. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-05 Base	6/19/2019	Soil	4.5			32	<77.3	<91.2	<0.05	<0.30	
G-05 N. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-05 S. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-06 Base	6/19/2019	Soil	4			16	<20	<30	<0.05	<0.30	
G-06 N. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-06 S. Wall	6/19/2019	Soil		0	3.5	32	<20	<30	<0.05	<0.30	
G-07 Base	6/21/2019	Soil	3.0			<16	<20	<30	<0.05	<0.30	
G-07 S. Wall	6/21/2019	Soil		1.0	3.0	16	<20	<30	<0.05	<0.30	
G-08 Base	6/21/2019	Soil	4			16	436.8	495.6	<0.05	1.41	REMOVED
G-08 Base	6/25/2019	Soil	5.0			16	<20	<30	<0.05	<0.30	
G-08 N. Wall	6/21/2019	Soil		2.0	4.0	<16	<20	<30	<0.05	<0.30	
G-08 S. Wall	6/21/2019	Soil		1.0	4.0	16	<82.3	<93.8	<0.05	<0.30	
G-09 Base	6/21/2019	Soil	4.0			<16	<20	<30	<0.05	<0.30	
G-09 S. Wall	6/21/2019	Soil		1.0	4.0	<16	<20	<30	<0.05	<0.30	
G-10 Base	6/21/2019	Soil	3.0			16	<27.6	<37.6	<0.05	<0.30	
G-10 N. Wall	6/21/2019	Soil	2			48	7280	8212	2.16	205	REMOVED
G-10 N. Wall	6/25/2019	Soil		0.0	2.0	32	<20	<30	<0.05	<0.30	
G-10 S. Wall	6/21/2019	Soil		2.0	3.0	32	<20	<30	<0.05	<0.30	

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Table 3 Summary of Analytical Confirmation Sampling

Sample ID	Data	Matrix	Discroto Donth	Ton Donth	Pottom Donth	Chlorido	CPO+DPO		Ponzono	DTEV	Commonts
Sample ID	Date					(non a)	GROTDRO		Delizene		comments
		(Soil/Water)	(Feet)	(Feet)	(Feet)	(PPM)	(PPM)	(PPM)	(PPM)	(PPM)	
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
G-11 Base	6/21/2019	Soil	2.0			<16	<20	<30	<0.05	<0.30	
G-11 N. Wall	6/21/2019	Soil	2.0			16	<20	<30	<0.05	<0.30	
G-11 S. Wall	6/21/2019	Soil		1.0	2.0	32	<20	<30	<0.05	<0.30	
G-12 Base	6/21/2019	Soil	4.0			16	<20	<30	<0.05	<0.30	
G-12 N. Wall	6/21/2019	Soil		0.0	4.0	<16	<20	<30	<0.05	<0.30	
G-13 Base	6/21/2019	Soil	2.0			16	<20	<30	<0.05	<0.30	
G-13 Containment Wall	6/21/2019	Soil		0.0	2.0	64	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/21/2019	Soil		0	2	896	5731	6592	0.434	43.1	REMOVED
G-14 Base	6/21/2019	Soil	2.0			32	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/25/2019	Soil		0.0	2.0	496	3157	3728	0.618	32.8	Defer (in-use)
G-14 Containment Wall	6/25/2019	Soil		2.0	4.0	32	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/25/2019	Soil	4.5			32	<20	<30	<0.05	<0.30	
G-14 E. Wall	6/21/2019	Soil		0.0	3.0	48	<20	<30	<0.05	<0.30	

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Appendix A

Laboratory Certificates of Analyses

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104



June 13, 2019

ANDREW PARKER R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/07/19 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 01 0-2' (H901994-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-129)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142							
Surrogate: 1-Chlorooctadecane	84.8	37.6-147	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 02 0-2' (H901994-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	97.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	94.9 %	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 03 0-2' (H901994-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	91.7 9	% 41-142							
Surrogate: 1-Chlorooctadecane	88.9 %	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 04 0-2' (H901994-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	94.5 %	% 41-142							
Surrogate: 1-Chlorooctadecane	94.1 %	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 06 0-2' (H901994-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	91.9 \$	% 41-142							
Surrogate: 1-Chlorooctadecane	88.3 9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 0-2' (H901994-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	23.2	2.00	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	115	2.00	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	36.8	2.00	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	106	6.00	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	281	12.0	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/11/2019	ND	416	104	400	3.92	QR-03
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2680	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	5160	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	859	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	304 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	237 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 2-4' (H901994-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.619	0.100	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	4.77	0.100	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	2.38	0.100	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	7.67	0.300	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	15.4	0.600	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	135	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	432	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	13.7	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	114 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 5.5' (H901994-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.084	0.050	06/09/2019	ND	2.24	112	2.00	13.6	
Toluene*	0.435	0.050	06/09/2019	ND	2.34	117	2.00	11.9	
Ethylbenzene*	0.295	0.050	06/09/2019	ND	2.26	113	2.00	14.2	
Total Xylenes*	0.962	0.150	06/09/2019	ND	6.94	116	6.00	13.6	
Total BTEX	1.78	0.300	06/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/10/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.7	10.0	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	115	10.0	06/09/2019	ND	202	101	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	06/09/2019	ND					
Surrogate: 1-Chlorooctane	104 %	6 41-142							
Surrogate: 1-Chlorooctadecane	112 %	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 0-2' (H901994-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.750	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	6.53	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	3.38	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	10.4	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	21.1	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.1	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	251	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 2-4' (H901994-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.105	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	0.086	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	0.275	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	0.466	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.3	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	48.2	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	100 %	6 41-142							
Surrogate: 1-Chlorooctadecane	94.9 %	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 5.5' (H901994-11)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2019	ND	2.24	112	2.00	13.6	
Toluene*	<0.050	0.050	06/09/2019	ND	2.34	117	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/09/2019	ND	2.26	113	2.00	14.2	
Total Xylenes*	<0.150	0.150	06/09/2019	ND	6.94	116	6.00	13.6	
Total BTEX	<0.300	0.300	06/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2019	ND	243	121	200	0.943	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	220	110	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	101 %	6 41-142							
Surrogate: 1-Chlorooctadecane	97.7 9	37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 1-2' (H901994-12)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.43	2.00	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	97.4	2.00	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	43.8	2.00	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	130	6.00	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	280	12.0	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2960	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	7410	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	1220	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	206 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	300 %	6 37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 2-4' (H901994-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.70	1.00	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	55.0	1.00	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	27.4	1.00	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	83.0	3.00	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	169	6.00	06/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1290	10.0	06/10/2019	ND	240	120	200	5.09	
DRO >C10-C28*	3750	10.0	06/10/2019	ND	212	106	200	4.86	
EXT DRO >C28-C36	609	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	251 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	198 %	6 37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 4.5' (H901994-14)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.082	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2019	ND	240	120	200	5.09	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	212	106	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					
Surrogate: 1-Chlorooctane	104 %	6 41-142							
Surrogate: 1-Chlorooctadecane	106 %	37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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. Keine

Celey D. Keene, Lab Director/Quality Manager

81 JC	Address	ichs C	ustody Record Tonsultants File	Turn-Around Time: Standard Rush Project Name: Advance Energy				Cardin-1 Labs HALL ENVIRONMENTAL ANAL/SIS LABORATORY WWW.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NIV 87/09													
Phone	Phane # (172) 570-9535				stt Tank	BHerv	I el. 505-345-3975 Fax 505-345-4107 Analysis Request														
email o	r Fax#:	andrewe	KThicks consult. com	Project Mana	ager:	54.51.7															
QA/QC	QA/QC Package:				Parker		s (8021	(Gas on	RO / MR			(SMIS)		PO4,SO	PCB's			ne			
Accred	Accreditation				Sampler: Jacob Duncan			H TPH	RO / DF	18.1)	04.1)	8270 S		3,NO ₂ ,	/ 8082		۹)	Senze			r N)
	(Type)		1.8	Sample Temperature:			BE	BE	(GF	d 4	od 5(0 or	etals	UNC)	ides	()	-V0	1)		(Y o
Date	Time	Matrix	H901994 Sample Request ID	Container Type and #	Preservative Type	HEAL No.	3TEX + MT	3TEX + MT	TPH 8015B	TPH (Metho	EDB (Metho	AH's (831	3CRA 8 Me	Anions (F,C	3081 Pestic	3260B (VO/	3270 (Semi	BTEX .	Chloride		Air Bubbles
6/61	16:12	soil	HA-01 0-2Ft	YOZ Jar	iu				X					-		~		x	X		-
12	16:30	1	14A-020-2Ft						T										\square		
3	16:40		HA-03 0-2 Ft													111		T			
4	16:50		HA-04 0-2 Ft			1												T			
5	17:05		HA-06 0-2 Ft															T	\mathbf{H}		
6	17:30		HA-07 0-2 Ft	-														T			
- 7	17:40		HA-07 2-4 Ft						T									T	\uparrow		
8 8	17:45		HA-07 5.5 Ft			1							R	U	S	H		T	T	- 1	
b 43:0	17:55		HA-08 0-2 Ft															T			
01 12	18:00		HA-08 2-4FE																		
16/20.	18:05	V	HA-08 5.5Ft		<i>У</i>				V				R	U	S	H		L	1		
TP:ate: 17 Report	Time: 08:00 Time: 09:15	Relinquist Jacob Relinquist	ned by: b Duncan ned by:	Received by: Andrew Par Received by:	rker DIdak	Date Time 8:02A 6/7 0:500 Date Time	Ren	o.	s: 1°c 17												

Released to Imaging: 1/7/2022 12:04:10 PM

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81	BL JO BL ƏBEL n-of-Custody Record Client: RT Hicks Mailing Address: On File					Turn-Around Time: Standard I Rush Project Name: Advance Energy					CARDINAL LABS HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												
	Phone #: (970) 570 - 9535 email or Fax#: andre-@ RTHicksConsolf. Com QA/QC Package: Standard D Level 4 (Full Validation)						Project #: 504/505 H Tank Butfery Project Manager: Andrew Parker				as/Diesel) 12	05-34	45-3	9 75 A	l - naly	O4,SO4) Sis	505- Reg s,804	345- uest	410	7			
	Accreditation:				Sampler: Jack Durkan On Ice: I Yes II No Sample Temperature:			LEE + TMB's	BE + TPH	d 8015B (G	od 418.1)	od 504.1)	or PAH)	stals	I,NO ₃ ,NO ₂ ,F	ides / 8082	1	-VOA)	enzent			14 T 14	
-	Date	Time	Matrix	H9C Sam	ple Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MT	BTEX + MT	TPH Metho	TPH (Metho	EDB (Metho	8310 (PNA	RCRA 8 Me	Anions (F,C	8081 Pestic	8260B (VO/	8270 (Semi-	BTEX + B	Chloride		ALCOLULATE
	6/6	10:30	5011	HA-05	1-2.Ft	YozJor	ice				X									X	X	1	1
5_ +_	ţ	10:50		HA-05	4.5 Ft						4		-							Ļ	L	+]
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D:	ate: /7	Time: 08:60	Relinquishe Jawb	d by: Duncan		Received by: Andrew f	Porker	Date Time 6/7/19 08,9	Rem	arks	:			1						1			Ι
61	7	09:15		M		Aurara Oldar ul 4/7/19 0915				9.1 H9	2												

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June 20, 2019

ANDREW PARKER R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 E. WALL 0-4' (H902122-01)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-129)						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	100 %	6 41-142							
Surrogate: 1-Chlorooctadecane	103 %	6 37.6-147	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 W. WALL 0-4' (H902122-02)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	98.2 %	% 41-142							
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 N. WALL 0-4' (H902122-03)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	98.8	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 BASE 4.5' (H902122-04)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	97.2 \$	% 41-142							
Surrogate: 1-Chlorooctadecane	100 %	37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 BASE 6.5' (H902122-05)

BTEX 8021B	mg/	kg	Analyze	d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.052	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	61.6	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	95.2 %	6 41-142							
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 W. WALL 0-4' (H902122-06)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.055	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 E. WALL 0-4' (H902122-07)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	92.0 %	% 41-142							
Surrogate: 1-Chlorooctadecane	93.0 %	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 W. WALL 0-4' (H902122-08)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.057	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	97.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	97.6%	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 BASE 5' (H902122-09)

BTEX 8021B	mg/	kg	Analyze	d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	2.11	0.100	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	3.02	0.100	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	8.10	0.300	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	13.2	0.600	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	157 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	186	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	1090	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	199	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	129 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	140 9	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 E. WALL 0-4' (H902122-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	11.1	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	10.6	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	97.2 %	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.6%	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 S. WALL 0-4' (H902122-11)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142							
Surrogate: 1-Chlorooctadecane	110 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 E. WALL 0-4' (H902122-12)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142							
Surrogate: 1-Chlorooctadecane	110 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 BASE 5' (H902122-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 BASE 4.5' (H902122-14)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	67.3	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	13.9	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	109 %	6 41-142							
Surrogate: 1-Chlorooctadecane	120 %	37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 S. WALL 0-4' (H902122-15)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142							
Surrogate: 1-Chlorooctadecane	111 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 N. WALL 0-4' (H902122-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	107 %	6 41-142							
Surrogate: 1-Chlorooctadecane	113 %	6 37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 N. WALL 0-4' (H902122-17)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142	,						
Surrogate: 1-Chlorooctadecane	107 %	6 37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 BASE 4' (H902122-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142							
Surrogate: 1-Chlorooctadecane	111 %	6 37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 S. WALL 0-3.5' (H902122-19)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					
Surrogate: 1-Chlorooctane	97.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 %	37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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 SM4500CI-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. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

Received by OCD: 11/16/2021 5:43:02 AM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FA	X (575) 393-24	76																		0.1		-			
Company Name:	RT Hicks										E	311	L 70		+			_		ANAL	YSIS	RE	QUE	ST	_	
Project Manager	Andrew P	arker							P.C). #:																
Address: 👩	n-File								Co	mpa	iny:	R	T Hicks													
City:		State:	Zip):					Att	n:		Ma	11 10	ABQ												
Phone #:		Fax #:					_		Ad	dres	ss:	0	FFCE				T									
Project #:		Project Owne	er:						Cit	y:							4									
Project Name:	Advance Ener	9Y						_	Sta	te:		Z	Zip:	_			~									
Project Location	505 H Ta	nt Batter V							Ph	one	#:						RO									
Sampler Name:	Andrew Part	r							Fax	x #:					9	2	0									
FOR LAB USE ONLY						M	ATRI	X	_	PRE	SER	۲V.	SAMPLI	NG	00	5	21		1							
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OME	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	ТІМЕ	RTEV Rom	וזה לאחיה	GRO, DR	Chloride								
1	61 EWALL O	-4 FT	C	. (×	(×		6-19-19	10:00	X	4;	X	K								
2	61 W. WALL	0-4 FT	1	1			1				1			10:05	1		1	L								
3	54-61 N.WA	LL OYFT												10:10				-								
4	61 BASE	4.5 FT						-		_				10:15												
5	62 BASE 6	S PT		4			1							10:20	1		-					_				
4	62 W.WALL	0-4 FT		1		_	-	-		_		-		10:25		-		-					1			
- 7	62 E. WALL	0-4 FT	++				-	-	-	2-1	+	-		10:30		-		-					_			
8	63 W.WALL	0-4 F7		++	-	_	4		-	-	++	+		10:35		-		-							$ \rightarrow $	
7	65 BASE	5 FT	-	1	-	_		-	-	-	1	+		10:40	V			1						-		
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and	client's exclusive remedy fo	r any cla	im aris	ing wh	ther bas	sed in c	contrac	t or tor	t, shall	be lim	ited to	the amount pair	d by the client fo	r the	-	_	-		_			-	<u> </u>		
analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	g those for negligence and any off ardinal be liable for incidental or co	ter cause whatsbever shall b nsequental damages, includi nce of services bereunder by	e deemo ng witho Cardina	ut limit	ation, t	usiness	interru Interru er suct	ting an ptions,	loss o is has	f use, a	or loss	of pro	fits incurred by c	lient, its subsidia	ne applic aries, se	able										
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Laboratories

Received by OCD: 11/16/2021 5:43:02 AM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(!	575) 393-2326 FAX (575) 393-247	6						_	_				_						-			1				
Company Name:	RT Hicks	_					1941			BIL	L L TO			_				ANA	LYS	SIS	REC	QUES	ST .			
Project Manager:	Andrew Parka-		_			_	F	P.O.	#:	_																1-1
Address:	Op-Fill						C	Com	pany	1:	RT His	ks														
City:	State:	Zip					A	Attn:		M	ail to															
Phone #:	Fax #:						A	Addr	ess)	4BQ O	Frice			,											
Project #:	Project Owne	r:					c	City:							X											
Project Name:	Advance Energy						S	State	e:		Zip:				G											
Project Location:	Advar 505 H Task Tank	B	Her	V			F	hor	ne #:						0											
Sampler Name:	Andrew Parket			/	1		F	ax #	¥:				606		é											
FOR LAB USE ONLY				-	MA	RIX		PI	RESE	RV.	SAMPLI	NG	44		-											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER ; ACID/RASE:	ICE / COOL	OTHER :	DATE	TIME	STEX, Be		6RU DRG	chloride										
11	64 S. WALL O-4 FT	0	1		X				×		6.19.19	10:50	×)	2	X								1	1	
12	64 E. WALL O-4 FT	1	1		1				1		1	10:55	1		1	1										
13	64 BASE 5 FT										-	11:00				1										
14	65 Base 4.5 FT											11:10								-						
15	65 S. WALL O-4 FT			_								11:15						3 0	_	_						
14	65 N. WALL 0-4 FT						-				_	11:20			_	-		_	_	_					-	
17	66 N, WALL 0-4 FT		4	-			_	_				11:25				-		_	_		_					_
18	66 BASE 4 FT					_	-	-		-	-	11:30			/	1		-	-	_	-				-	
17	66 J.WALL 0-3.5 FT	×	J	-	7		-	-	Y	-	V	11:35	J	V		N	-	-		_	-			-	-	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Cara affiliates or successors arising Relinquished By: Relinquished By: Relinquished By:	Damages. Cardinal's liability and client's exclusive remedy for those for negligence and any other cause whatsoever shall be dinal be liable for incidental or consequental damages. Includin out of or related to the performance of services hereunder by (Date: Time: Time:	any clair deemec g withou Cardinal Re	n arisin I waived I limitat regard CeiV	y whether I unless on, busin less of w ed By ded By	er basec made in ness int whether y:	l in cor o writin errupti such c	ntract or g and n ons, los laim is	r tort, sh eceived ss of us based u	hall be i i by Ca e, or lo: upon ar	limited t rdinal w ss of pro- ny of the	o the amount pai tihin 30 days afte ofits incurred by o above stated rea	d by the client for r completion of th client, its subsidia asons or otherwis Phone Res Fax Resul REMARKS	the the applicat ries, se. sult: t: S:		Yes		No No	Add Add	I Phor I Fax #	ne #: #:					/	
Delivered By: Sampler - UPS -	(Circle One) Bus - Other: 5.92	Ħ	97	Sa	mple ol Yes No		iditio ct Yes No	'n	CH	IECK (Initi	ED BY: ials)	Br	ous	A	(Ru	FA	1/2s	tie	17	Ba	P-	Se V.o			



June 25, 2019

ANDREW PARKER R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/24/19 10:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 7 S WALL 1-3' (H902155-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-129)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	109 9	% 41-142							
Surrogate: 1-Chlorooctadecane	118 9	37.6-147	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 7 BASE 3' (H902155-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	110 %	6 41-142							
Surrogate: 1-Chlorooctadecane	116 %	6 37.6-14	7						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 8 N. WALL 2-4' (H902155-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	120 %	6 41-142							
Surrogate: 1-Chlorooctadecane	124 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 8 S WALL 1-4' (H902155-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	72.3	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	11.5	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	108 %	6 41-142							
Surrogate: 1-Chlorooctadecane	117 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 8 BASE 4' (H902155-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	0.127	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	0.272	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	1.01	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	1.41	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	44.8	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	392	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	58.8	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	122 9	% 41-142							
Surrogate: 1-Chlorooctadecane	130 9	37.6-14	7						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 9 BASE 4' (H902155-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg Analy		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	115 %	6 41-142							
Surrogate: 1-Chlorooctadecane	121 %	6 37.6-14	7						

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R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 9 S. WALL 1-4' (H902155-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	108 %	6 41-142							
Surrogate: 1-Chlorooctadecane	115 %	6 37.6-14	7						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 BASE 3' (H902155-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg Analyze		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	17.6	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	108 %	6 41-142							
Surrogate: 1-Chlorooctadecane	115 %	6 37.6-14	7						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 N.WALL 2' (H902155-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.16	0.500	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	58.0	0.500	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	35.5	0.500	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	109	1.50	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	205	3.00	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1790	50.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	5490	50.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	932	50.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	205 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	283 %	6 37.6-14	!7						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 S.WALL 2-3' (H902155-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	97.6 %	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 S. WALL 1-2' (H902155-11)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	0.158	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	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	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	111 %	<i>37.6-14</i>	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 N. WALL 2' (H902155-12)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	108 %	6 41-142	1						
Surrogate: 1-Chlorooctadecane	113 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 BASE 2' (H902155-13)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142							
Surrogate: 1-Chlorooctadecane	109 9	37.6-14	7						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 12 BASE 4' (H902155-14)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	115 %	6 41-142							
Surrogate: 1-Chlorooctadecane	119 %	6 37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager


R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 12 N. WALL 0-4' (H902155-15)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	110 %	6 41-142							
Surrogate: 1-Chlorooctadecane	117 %	6 37.6-14	7						

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Celeg Di Kreene

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 13 BASE 2' (H902155-16)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142							
Surrogate: 1-Chlorooctadecane	111 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 13 CONTAINMENT WALL 0-2' (H902155-17)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/25/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	110 9	% 41-142							
Surrogate: 1-Chlorooctadecane	114 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 E. WALL 0-3' (H902155-18)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	112 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 BASE 2' (H902155-19)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	0.061	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	82.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.69	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 CONTAINMENT WALL 0-2' (H902155-20)

BTEX 8021B	mg/	kg	Analyze	d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.434	0.250	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	9.87	0.500	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	8.21	0.500	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	24.6	1.50	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	43.1	2.75	06/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	136 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/25/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	751	50.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	4980	50.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	861	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	216 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	207 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 11/16/2021 5:43:02 AM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CName	(575) 393-2326 FAX	(5/5) 393-24/	6			-	-	BILLTO						ANALYSIS REQUEST												
Company Name	KT Hicks Cons	ultats	_				-	D	0 #							T	-			1010	NE	QUE		-		
Froject Manager	· Andlew Fark	25		-					.0. #	•	0			11												
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City:		State:	Zip					A	ttn:	-		1.2			5	X										
Phone #:		Fax #:		_		_		A	ddre	ss:,	Ma	il to 1	4BQ		6											
Project #:		Project Owne	r:					C	City:						0	E										
Project Name:	Advance Enero	7						State: Zip:						-												
Project Location	1: 505 H -		_					P	Phone #:						1	SC										
Sampler Name:	Andrew Park	T	_	_	_	_		F	Fax #:					24	4											
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL BUAIEK	TRIX	SLUDGE	ACID/BASE: 4	ICE / COOL	OTHER:	DATE	TIME	BTEX, Benze	TOULED	IL NI (DRO)	Chloride									
1100100	GI CWALL I	-3 FT	U	ī		X				V	-	6.71.19	12:00	×	¥		X									
2	G7 RASE 3	SFT	Ī	1		1				1		1	13:05	1	1		i									1
3	68 N.WALL	2-4FT											13:10						- 1			1-2-				
4	68 SWALL	1-4 FT					1						13:15											1		
S	68 BASE	4FT											13:20								1	1				
6	69 BASE	YFT											13:30					1	-	1	1.1	-	()	-		
7	69 SWALL	1-4FT											13:35	1				_	-	-			-			
8	GIO BASE .	SFT											13:45								-					1
9	GIO N.WALL	2FT	4	11							_		14:0					-				-				-
W	GIO S.WALL	2-3 PT	V	1		V	1			4		V	14.15	V	V		V								1	
PLEASE NOTE: Liability at analyses. All claims includi service. In no event shall C affiliates or successors arisi Relinquished By	nd Damages. Cardinal's liability and c ng those for negligence and any other ardinal be liable for incidental or cons ing out of or related to the performanc Y:	ient's exclusive remedy for cause whatsoever shall be equental damages, includir e of services hereunder by Date:	any cla deeme g witho Cardina Re	im ansi id waiv ut limit: al, rega ECEI	ng whet ad unles ation, bu rdless of ved, E	s made siness ir whethe By :	in writii hterrup r such	ng and re tions, los claim is t	s of use	by Care , or los: pon any	final w s of pr of the	o the amount par vithin 30 days after ofits incurred by the above stated re	r completion of the client, its subsidia asons or otherwise Phone Res	ne applica ries, se. sult:		Yes			id'l P	hone :	#:				_	
andrew Balinguishad B	Chicken and Time: 10:05 Alland				170	A	M	da	k	Sf.	REMARKS	5:		165			uir	ax #.								
Time:												1	-	>				1/	2	Page	5					
Delivered By Sampler - UPS	Delivered By: (Circle One) Sampler - UPS - Bus - Other: 1.1c #97 Yes No				Ves						R	.F.	N				12		. 02							



Received by OCD: 11/16/2021 5:43:02 AM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	OT Hicks Care	11- tc	-		-			1		BI	LL	70						ANA	LYS	IS I	REQL	JEST			
Project Manager	· Andrew Porke	DIT GOL	-					P.0	D. #:						172.51					T					
Address: 01	- Fill	d						Co	mpa	ny: í	RT	Hick	5												
City:		State:	Zip:					Att	:n:																
Phone #:		Fax #:						Ad	dres	s: n	ngil	to	ABQ		r										
Project #:		Project Owner	2					Cit	y:						7	4									
Project Name:	Advance Energy	,						State: Zip:						w											
Project Location	1: 505H							Phone #:						0	60										
Sampler Name:	Andrew Parks	-						Fax #:						44	C										
FOR LAB USE ONLY					-	MAT	RIX	-	PRE	SERV	. s	AMPLI	NG	240	0	+									
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTFWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / COOL OTHER :	C	DATE	ТІМЕ	BTEX, B.	600 DP		CHIOFIOL								
11	611 SWALL	1-2 PT	6	- 1		×				<	6.	21.19	15:00	×	X	X		1.1							
12	GII N.WALL	2 FT	1	1		1				Í		1	15:05	1	1	1									_
13	GII BASE	2 FT											15:10										_	_	_
14	G12 BASE	4 FT								1		-	15:15		11			-		_	1				_
15	G12 N. WALL	O-4FT										1	15:20	1	11				-	_			1-12-	_	
16	GB BASE	2FT	1				_					-	15:25			-	_		-					_	
17	G13 Containmat (Wall 0-2 FT	1	4								-	15:30	1					-					_	
18	614 E.WALL	0-3 FT	4	4	_		-	-			-	-	15:35	_		-		_	_	_	_			-	-
19	GI4 BASE	2 FT			_	1		-				-	15:40			1	1	_	-	_	-	-			
20	G14 Containment W	all 0-2 fT	A	V	a wheth	A.	in contra	ct or In	rt shall	V limite	d to the	M amount na	15.45	¥ the	V	1			_	-					
analyses. All claims includi	ing those for negligence and any other of	cause whatsoever shall be	leeme	d waive	d unless	made in	writing a	nd rece	eived by	Cardinal	I within 3	30 days aft	er completion of th client, its subsidiar	e applica les	able										
affiliates or successors aris	ing out of or related to the performance	of services hereunder by C	ardina	, regar	dless of v	vhether :	such clair	n is ba	sed upor	n any of t	the abov	e stated re	asons or otherwis	e.		20		Ada	I'l Phor	ne #•					
Relinquished By: Audul of Control of Contro							U	k	gl	2	Fax Result REMARKS	RF		es)		Add	1'l Fax :	#: *	ſ						
Delivered By Sampler - UPS	: (Circle One) - Bus - Other:	1.1° =	#9	37	Sa	mple ool Yes No	Cond Intact	ition es No	7	CHEC (In	KED itials)	BY:)							1						



June 28, 2019

ANDREW PARKER R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/26/19 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: Project Number: Project Manager: Fax To:	ADVANCE ENERGY 505 H TANK BATTERY (TB) ANDREW PARKER NONE	Reported: 28-Jun-19 10:35
Sample ID	Laboratory ID Matrix	Date Sampled	Date Received

G 3 BASE 7.5'	H902174-01	Soil	25-Jun-19 17:00	26-Jun-19 08:30
G 8 BASE 5'	H902174-02	Soil	25-Jun-19 17:10	26-Jun-19 08:30
G 10 N.WALL 0-2'	H902174-03	Soil	25-Jun-19 17:20	26-Jun-19 08:30
G 14 CONTAINMENT WALL 2-4'	H902174-04	Soil	25-Jun-19 17:30	26-Jun-19 08:30
G 14 CONTAINMENT WALL 0-2'	H902174-05	Soil	25-Jun-19 17:40	26-Jun-19 08:30
G 14 CONTAINMENT WALL 4.5'	H902174-06	Soil	25-Jun-19 17:50	26-Jun-19 08:30

Sample -06 ID was logged in wrong. Client sent an email to bring to our attention. This is the revised report wiht the correct sample ID for sample -06. This report will replace the one sent on 06/27/19.

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104			Proj Project Num Project Mana Fax	ject: AD\ ber: 505 ger: ANI To: NOI	/Ance ene h tank b, drew pari Ne	ГВ)	Reported: 28-Jun-19 10:35							
	G 3 BASE 7.5' H902174-01 (Soil)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
			Cardina	l Laborat	tories									
Inorganic Compounds														
Chloride	64.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B					
Volatile Organic Compounds I	by EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B					
Surrogate: 4-Bromofluorobenzene (PID))		108 %	73.3	-129	9062604	BF	26-Jun-19	8021B					
Petroleum Hydrocarbons by C	GC FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B					
Surrogate: 1-Chlorooctane			71.7 %	41-	142	9062607	MS	26-Jun-19	8015B					
Surrogate: 1-Chlorooctadecane			75.8% 37.6-147			9062607	MS	26-Jun-19	8015B					

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104			Proj Project Num Project Mana Fax	ject: ADV ber: 505 ger: ANE To: NOM	ance ene h tank b/ Rew park Ne	Ъ)	Reported: 28-Jun-19 10:35			
			G 8	BASE 5	;' 'I\					
[H902	174-02 (Se	oll)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		108 %	73.3	-129	9062604	BF	26-Jun-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctane			81.0 %	41-	142	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctadecane			85.3 %	37.6	-147	9062607	MS	26-Jun-19	8015B	

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

Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104			Proj Project Num Project Mana Fax	ect: ADV ber: 505 ger: AND To: NON	ANCE ENE H TANK B/ DREW PARK	Ъ)	Reported: 28-Jun-19 10:35			
			G 10 N H9021	.WALL 74-03 (So	0-2' oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	0.067		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			125 %	73.3	-129	9062604	BF	26-Jun-19	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctane			70.3 %	41-	142	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctadecane			73.6 %	37.6	-147	9062607	MS	26-Jun-19	8015B	

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE ALBUQUERQUE NM, 87104		Proj Project Num Project Mana Fax	Reported: 28-Jun-19 10:35												
	G 14 CONTAINMENT WALL 2-4' H902174-04 (Soil)														
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes					
			Cardina	l Laborat	ories										
Inorganic Compounds															
Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B						
Volatile Organic Compounds by	EPA Method	8021													
Benzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B						
Toluene*	0.094		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B						
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B						
Total Xylenes*	< 0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B						
Total BTEX	< 0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B						
Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3	-129	9062604	BF	26-Jun-19	8021B						
Petroleum Hydrocarbons by GC	FID														
GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B						
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B						
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B						
Surrogate: 1-Chlorooctane			77.3 %	41-	142	9062607	MS	26-Jun-19	8015B						
Surrogate: 1-Chlorooctadecane		82.1 %	37.6	-147	9062607	MS	26-Jun-19	8015B							

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUI ALBUQUERQUE NM, 87104		Project Num Project Nana Project Mana Fax	Reported: 28-Jun-19 10:35							
		G	14 CONTAI H902	NMENT 174-05 (Sc	WALL ()-2'				
			Reporting)					
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	496		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B	
Volatile Organic Compounds I	by EPA Method	8021								S-04
Benzene*	0.618		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	7.69		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	6.45		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	18.1		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	32.8		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		230 %	73.3	-129	9062604	BF	26-Jun-19	8021B	
Petroleum Hydrocarbons by C	GC FID									S-04
GRO C6-C10*	407		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	2750		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	571		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctane			136 %	41-	142	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctadecane		148 %	37.6	-147	9062607	MS	26-Jun-19	8015B		

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUIT ALBUQUERQUE NM, 87104	E F-142		Project Num Project Mana Fax	Reported: 28-Jun-19 10:35						
		G	14 CONTAL H902	NMENT 174-06 (So	WALL 4 pil)	4.5'				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	73.3	-129	9062604	BF	26-Jun-19	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctane			80.2 %	41-	142	9062607	MS	26-Jun-19	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	37.6	-147	9062607	MS	26-Jun-19	8015B	

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R T HICKS CONSULTANTSProject901 RIO GRANDE BLVD SUITE F-142Project NumberALBUQUERQUE NM, 87104Project ManageFax TrFax Tr	t: ADVANCE ENERGY r: 505 H TANK BATTERY (TB) 2 r: ANDREW PARKER p: NONE	Reported: 28-Jun-19 10:35
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Inorganic Compounds - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9062602 - 1:4 DI Water										
Blank (9062602-BLK1)				Prepared: 2	25-Jun-19 A	nalyzed: 26	6-Jun-19			
Chloride	ND	16.0	mg/kg							
LCS (9062602-BS1)				Prepared: 2	25-Jun-19 A	nalyzed: 20	6-Jun-19			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (9062602-BSD1)				Prepared: 2	25-Jun-19 A	nalyzed: 20	6-Jun-19			
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: Project Number: Project Manager: Fax To:	ADVANCE ENERGY 505 H TANK BATTERY (TB) ANDREW PARKER NONE	Reported: 28-Jun-19 10:35
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laborate	ories
Cardinal Laborate	ories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9062604 - Volatiles										
Blank (9062604-BLK1)				Prepared 8	z Analyzed:	26-Jun-19				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	73.3-129			
LCS (9062604-BS1)				Prepared 8	k Analyzed:	26-Jun-19				
Benzene	1.67	0.050	mg/kg	2.00		83.3	72.2-131			
Toluene	1.93	0.050	mg/kg	2.00		96.7	71.7-126			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.3	68.9-126			
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	73.3-129			
LCS Dup (9062604-BSD1)				Prepared &	k Analyzed:	26-Jun-19				
Benzene	1.61	0.050	mg/kg	2.00		80.7	72.2-131	3.24	6.91	
Toluene	1.92	0.050	mg/kg	2.00		95.8	71.7-126	0.908	7.12	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	68.9-126	0.249	7.88	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	1.05	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.116		mg/kg	0.100		116	73.3-129			

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: Project Number: Project Manager: Fax To:	ADVANCE ENERGY 505 H TANK BATTERY (TB) ANDREW PARKER NONE	Reported: 28-Jun-19 10:35
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Petroleum Hydrocarbons by GC FID - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Patch 00(2(07 Concerd Prop. Ouronics										
Batch 9002007 - General Frep - Organics										
Blank (9062607-BLK1)				Prepared &	k Analyzed:	26-Jun-19				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.7		mg/kg	50.0		83.4	41-142			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.1	37.6-147			
LCS (9062607-BS1)				Prepared &	k Analyzed:	26-Jun-19				
GRO C6-C10	190	10.0	mg/kg	200		95.0	76.5-133			
DRO >C10-C28	190	10.0	mg/kg	200		94.8	72.9-138			
Total TPH C6-C28	380	10.0	mg/kg	400		94.9	78-132			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	41-142			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.3	37.6-147			
LCS Dup (9062607-BSD1)				Prepared &	k Analyzed:	26-Jun-19				
GRO C6-C10	196	10.0	mg/kg	200		97.8	76.5-133	2.82	20.6	
DRO >C10-C28	192	10.0	mg/kg	200		96.2	72.9-138	1.45	20.6	
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	78-132	2.14	18	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	41-142			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.5	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 11/16/2021 5:43:02 AM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-247	5						_	-		-								_			-		23			
Company Name	: RT Hicks Consulty to									ß	3/L	L 70							AN	ALY	(SIS	RE	EQU	EST			
Project Manage	" Andrew Parker							P.(D. #:	84										-	. D		1115				
Address:	on-file							Co	mpa	any:	R	T Hic	3														
City:	State:	Zip	:					Ati	:n:		_					1											
Phone #:	Fax #:		-					Ad	dres	ss: /	Ma	il to /	ABQ		10	×											
Project #:	Project Owner	:						Cit	y:							a											
Project Name:	Advance Energy	_			_			Sta	ate:	1	2	Zip:				0											
Project Location	: 505H Tonk Botter		(7	TB,				Ph	one	#:				60		08											
Sampler Name:	Andrew Parker							Fa	x #:				_	4		7											
FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER		TRI	SLUDGE	OTHER:	ACID/BASE: A	ICE / COOL	OTHER:	SAMPLI	NG TIME	RTISX, Ben		7,000 1260	Chloride										
1	63 Base 7.5 FT	1	1		X					X	-	6-25-19	17:00	X		X	X							1			
2	68 Base 5 FT	1	i			1		1		Ì		1	17:10	i		1	i										
3	(210 AL WALL 0-2 FT												17:20					1			-						
4	614 Containment Wall 2-4FT	1								1			17:30										-				
5	614 Containment Wyll 0-2 FT		1				-			1			17:40	1			1			21			-	_			
6	614 Containment Wall 4,5 FT	V	V		6	/				V		V	17:50	V	1		V				-						
		_																									
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Appendix B OSE Well Logs

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

				(quarter	s are sn	nallest to la	rgest)	(NAD83 UT	M in meters)	
Well Tag	PO	D Numb	ber	Q64 Q′	16 Q4	Sec Twe	s Rng	Х	Y	
	СР	00854	POD1	1 ´	12	33 218	33E	633879	3590223	
Driller Licens	e:	421	Drill	er Con	pany:	GLENN	N'S WATE	R WELL \$	SERVICE	
Driller Name:		GLENN	, CLARK A."CO	RKY" (LD)					
Drill Start Da	te:	06/22/1	996 Drill	Finish	Date:	06/	/22/1996	Plug	Date:	
Log File Date	:	07/11/1	996 PCV	V Rcv E	Date:	10/	/17/2013	Sour	ce:	Shallow
Pump Type:		SUBME	R Pipe	Disch	arge S	Size: 2.8	375	Estin	nated Yield	l: 100 GPM
Casing Size:		6.63	Dep	th Well	:	950	0 feet	Dept	h Water:	600 feet
w	ater	Bearin	g Stratification	s:	Тор	Bottom	Descripti	ion		
					755	805	Sandston	e/Gravel/	Conglomer	ate
					860	890	Sandston	e/Gravel/	Conglomer	ate
		Cas	ing Perforatior	ıs:	Тор	Bottom				
					760	950				
м	eter	Numbe	r: 8514			Meter M	lake:	BLA	NCETT	
м	eter	Serial I	lumber: 04071	1711		Meter M	lultiplier:	1.00	00	
N	umb	er of Di	als: 7			Meter T	уре:	Dive	rsion	
U	nit o	f Measu	ire: Barrel	s 42 ga	ıl.	Return I	Flow Perc	ent:		
									rterly	
U	sage	Multip	lier: 			Reading	J Frequen			
U: Meter Rea	sage ding	e Multip gs (in A	lier: cre-Feet)			Reading				
U: - Meter Rea Read D	sage ding ate	9 Multip gs (in A Year	lier: cre-Feet) Mtr Reading	Flag	Rdr	Reading	nt		 Mtr	 Amount
U: 	sage ding ate	• Multip gs (in A Year 2004	lier: cre-Feet) Mtr Reading 121	Flag A	Rdr jw	Reading	nt		 Mtr	 Amount 0
U: Meter Rea Read D: 03/15/20 03/29/20	sage ding ate 004	• Multip gs (in A Year 2004 2004	lier: cre-Feet) Mtr Reading 121 69871	Flag A A	Rdr jw jw	Reading	nt		Mtr	 Amount 0 0
U: Meter Rea Read D 03/15/20 03/29/20 05/17/20	sage ding ate 004 004	Multip Js (in A Year 2004 2004 2004	lier: cre-Feet) Mtr Reading 121 69871 8758	Flag A A A	Rdr jw jw jw	Reading	nt		Mtr	 Amount 0 2.651
U: Meter Rea Read D: 03/15/20 03/29/20 05/17/20 06/11/20	sage ding ate 004 004 004 004	Multip ys (in A Year 2004 2004 2004 2004 2004	lier: cre-Feet) Mtr Reading 121 69871 8758 79641	Flag A A A A	Rdr jw jw jw	Reading	nt		Mtr	Amount 0 0 2.651 2.998
U: Meter Rea Read D 03/15/20 03/29/20 05/17/20 06/11/20 01/27/20	sage ding ate 004 004 004 004 004	Multip Js (in A Year 2004 2004 2004 2004 2004 2004 2012	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553	Flag A A A A A	Rdr jw jw jw jw RPT	Comme	nt		Mtr	Amount 0 2.651 2.998 0
U: Meter Read 03/15/20 03/29/20 05/17/20 06/11/20 01/27/20 03/01/20	sage ding ate 004 004 004 004 004 012 012	Multip Js (in A Year 2004 2004 2004 2004 2004 2004 2012 2012	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807	Flag A A A A A A A	Rdr jw jw jw jw RPT RPT	Comme	nt		Mtr	Amount 0 2.651 2.998 0 2.999
U: Meter Rea Read D: 03/15/20 03/29/20 05/17/20 06/11/20 01/27/20 03/01/20 05/29/20	sage ding ate 004 004 004 004 004 012 012 012	Multip Js (in A Year 2004 2004 2004 2004 2012 2012 2013	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696	Flag A A A A A A A	Rdr jw jw jw jw RPT RPT	Comme	nt ading		Mtr	Amount 0 2.651 2.998 0 2.999 0
U: Meter Read 03/15/20 03/29/20 05/17/20 06/11/20 01/27/20 03/01/20 05/29/20 10/07/20	sage ding ate 004 004 004 004 004 012 012 012 013 013	Multip Js (in A Year 2004 2004 2004 2004 2012 2012 2012 2013 2013	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774	Flag A A A A A A A A A	Rdr jw jw jw RPT RPT RPT	Comme Initial rea	nt ading ading		Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229
U: Meter Read 03/15/20 03/15/20 03/29/20 05/17/20 06/11/20 01/27/20 03/01/20 05/29/20 10/07/20 11/11/20	sage ding ate 004 004 004 004 004 012 012 013 013	 Multip s (in A) Year 2004 2004 2004 2004 2004 2004 2012 2013 2013 2013 2013 2013 	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774 540326	Flag A A A A A A A A A A	Rdr jw jw jw RPT RPT RPT RPT	Comme Initial rea initial rea	ading		Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229 10.254
U: Meter Read 03/15/20 03/29/20 05/17/20 06/11/20 03/01/20 03/01/20 10/07/20 11/11/20 01/01/20	sage dding ate 004 004 004 004 004 012 012 013 013 013 013	Multip s (in A Year 2004 2004 2004 2004 2012 2012 2013 2013 2013 2013	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774 540326 614283	Flag A A A A A A A A A A A A	Rdr jw jw jw RPT RPT RPT RPT RPT	Comme Initial rea	ading		Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229 10.254 9.533
U: Meter Read 03/15/20 03/15/20 03/29/20 05/17/20 05/17/20 06/11/20 01/27/20 03/01/20 10/07/20 11/11/20 01/01/20	sage ding ate 004 004 004 004 004 012 012 013 013 013 013 014	Multip s (in A Year 2004 2004 2004 2004 2012 2012 2013 2013 2013 2013 2013 2013	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774 540326 614283 1122654	Flag A A A A A A A A A A A A	Rdr jw jw jw RPT RPT RPT RPT RPT RPT	Comme Comme	ading ading	cy . Qua	Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229 10.254 9.533 65.526
U: Meter Read 03/15/20 03/15/20 03/29/20 05/17/20 06/11/20 05/29/20 10/07/20 11/11/20 01/01/20 01/01/20 01/01/20	sage iding ate 004 004 004 004 004 012 012 013 013 013 014 014 015	Multip s (in A Year 2004 2004 2004 2004 2012 2012 2013 2013 2013 2013 2013 2014 2014	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774 540326 614283 1122654 1212343	Flag A A A A A A A A A A A A A A	Rdr jw jw jw RPT RPT RPT RPT RPT RPT RPT	Comme Initial rea Qtr IV 20	ading	cy . Qua	Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229 10.254 9.533 65.526 11.560
U: Meter Read 03/15/20 03/15/20 03/29/20 05/17/20 05/17/20 06/11/20 01/27/20 03/01/20 01/01/20 01/01/20 01/01/20 03/31/20	sage dding ate 004 004 004 004 004 012 012 013 013 013 013 013 014 015 015	Multip s (in A Year 2004 2004 2004 2004 2012 2012 2013 2013 2013 2013 2013 2014 2014 2014	lier: cre-Feet) Mtr Reading 121 69871 8758 79641 18062553 19039807 179696 460774 540326 614283 1122654 1212343 1307063	Flag A A A A A A A A A A A A A A	Rdr jw jw jw RPT RPT RPT RPT RPT RPT RPT RPT	Comme Comme	nt ading ading	cy . Qua	Mtr	Amount 0 2.651 2.998 0 2.999 0 36.229 10.254 9.533 65.526 11.560 12.209

3/5/19 1:48 PM

Read Date	Year M	Itr Reading	Flag	g Rdr	Comment	Mtr Amount
09/30/2015	2015	1371471	А	RPT		0.247
10/22/2015	2015	1400502	А	RPT		3.742
11/30/2015	2015	1400502	А	RPT		0
04/28/2016	2016	1464116	А	RPT	"JD33 Well"	8.199
06/01/2016	2016	1464116	А	RPT		0
07/27/2016	2016	1496980	А	RPT	JD33 Well	4.236
09/01/2016	2016	1510835	А	RPT	JD 33 Well	1.786
09/30/2016	2016	1517146	А	RPT		0.813
10/31/2016	2016	1531178	А	RPT	JD 33 well	1.809
11/29/2016	2016	1553285	А	RPT	JD33 Well	2.849
03/01/2017	2017	1583100	А	RPT		3.843
**YTD Meter	r Amounts	s: Year		Amount		
		2004		5.649		
		2012		2.999		
		2013		56.016		
		2014		77.086		
		2015		24.253		
		2016		19.692		
		2017		3.843		

		(quarte							
		(quar	rters are s	mallest	to larę	gest)	(NAD83 UT	M in meters)	
Well Tag	POD Number	Q64	Q16 Q4	Sec ⁻	Γws	Rng	Х	Y	
	CP 01349 POD1	2	3 1	27	21S	33E	635304	3591576	\$
Driller Licens	se: 421	Driller Company: GLENN'S WATER WELL SERVICE							
Driller Name	GLENN, CLARK	A."CORKY	"						
Drill Start Da	te: 07/12/2014	Drill Finish Date: 07/18/2014					Plug	Date:	
Log File Date	e: 08/04/2014	PCW Rcv Date:					Sour	ce:	Artesian
Pump Type:		Pipe Disc	Pipe Discharge Size:				Estimated Yield:		
Casing Size:	7.00	Depth We	ell:		118	8 feet	Dept	h Water:	572 feet
N	/ater Bearing Stratifi	cations:	Тор	Botto	m	Descri	ption		
			990	11	88	Sandst	one/Gravel/	/Conglome	rate
	Casing Perfo			Botto	m				
			721	11	88				



WELL RECORD & LOG

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STATE ENGINEER OFFICE POSYFUL, NEW MEXICP

2014 SEP 10 PM 2: 15

	OSE POD N	UMBER (WELL I	NUMBER)	·····			OSE FILE NU	MBER(S)			
N	CP-1355	(East S	tand	lard South) **	* Revised 09/09	9/14 * * *						
Ĩ	WELL OWN	IER NAMI	E(S)					PHONE (OPT	IONAL)			
OCA.	Merchar	nts/Glei	nn's ۱	Water Well Serv	/ice, Inc.			575-398-2	2424			
LL.	WELL OWN	JER MAIL	ING AI	DDRESS				ĊITY	· · · · · · · · · · · · · · · · · · ·	STATE	ZIP	
WEL	P. O. Boy	692						Tatum		NM 8826	7	
ĝ.	WELL	,		DEGREES	S MINUTE	S SECON	DS					
ALA	LOCATI	ом	LATIT	UDE 32	26	54.8	N	* ACCURAC	Y REQUIRED: ONE TEN	TH OF A SECOND		
ER	(FROM G	PS)	LONGI	_{TUDE} 103	33	58.3	W	* DATUM RE	QUIRED: WGS 84			
GEN	DESCRIPTIC	N RELATIN	IG WEL	L LOCATION TO STREE	T ADDRESS AND COMM	ION LANDMARKS - PL	SS (SECTION, T	OWNSHJIP, RAN	GE) WHERE AVAILABLE	· · · · · · · · · · · · · · · · · · ·		
	NE1/4N	V1/4SV	V1/4	Section 27, To	wnship 21 Sout	h, Range 33 Ea:	st on Merc	hants Live:	stock Land			
	LICENSEN WD 421	UMBER		NAME OF LICENSED	DRILLER			· ·	NAME OF WELL DR	ILLING COMPANY		
i. n					·				Glerin's Water v	wen service, mc.		
	07/22/14	started	07	/29/14	1,192'	TED WELL (FT)	1,192	LE DEPTH (FT)	925'	ST ENCOUNTERED (FT))	
Z	COMPLETE	D WELL I	s: 🤇	ARTESIAN	C DRY HOLE	SHALLOW (UNG	CONFINED)		STATIC WATER LEV	VEL IN COMPLETED WE	ELL (FT)	
DIE	DRILLING	FLUID:	6	AIR	C MUD	ADDITIVES - SF	· ·ECIFY:		-Å			
RMA	DRILLING I	METHOD:	(ROTARY	C HAMMER (R - SPECIFY:						
NFO.	DEPTH	(feet bgl)	BODE HOLE	CASING MAT	ERIAL AND/OR			CASING		1	
CASING IN	FROM	TO	TO DIAM (inches)		GRADE (include each casing string, and note sections of screen)		CONN T	ASING VECTION TYPE	INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
Č,	0'	40'		20"	16"	· · ·	None		15 1/2"	.250		
10.8	0'	757'		14 3/4"	9.5/8"		Thread	& Collar	8 921"	36 lbs	none	
TIN	690'	1,192	1	8 3/4"	7" (502.14' To	tal)	Thread	& Collar	6.366"	23 lbs.	1/8"	
RII					317.96 perfor	ated						
2. D					on bottom of	liner						
:												
											ļ	
											ļ	
2												
	DEPTH	(feet bgi)	BORE HOLE	LIST AN	INULAR SEAL M	ATERIAL A	ND	AMOUNT	METHO	D OF	
AL	FROM	TO		DIAM. (inches)	GRAVEL H	PACK SIZE-RANC	GE BY INTE	RVAL	(cubic feet)	PLACEN	AENT	
ERI	0'	40'		20"	Cemented				2 yds.	Top Pour		
IAT	0	757'		14 3/4"	Float and sho	e cemented to	surface		962	Circulated		
R		r										
0LA					· · · · ·	-						
N				· •		····						
3. A									-		· · ·	
									<u> </u>			
FOR FIL F	OSE INTER	NAL US	E A	1211			2	WR-2	0 WELL RECORD &	& LOG (Version 06/0	8/2012)	
TOC	ATION	17	1	- 1 255	•		<u> </u>		TOTAL	+7450	1.05.2	
LUC	AHON	CXL	21			215	. 53	Eid	1.512	PAGE	TOF2	

	DEPTH (FROM	feet bgl) TO	THICKNESS (feet)	COLOR AN INCLUDE WATH (attach suj	ID TYPE OF MATERIAL ENCOUNTE ER-BEARING CAVITIES OR FRACTU pplemental sheets to fully describe all t	RED - RE ZONES inits)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4'	4'	Sand	· · ·		CY CN	
1	4'	28'	24'	Caliche	· · · · · · · · · · · · · · · · · · ·		CY ON	
	28'	120'	92'	Sand & Clay			CY ON	
	120'	260'	140'	Red Clav	· · · · · ·	· · · ·····.	CY ON	
	260'	757'	497'	Red & Brown Sha	le. and Clav (some blue)			· · · ·
23 <u>-</u> 23	757'	815'	58'	Red & Brown Sha	le		OYON	
	815'	840'	25'	Blue Clav & Shale		·	CY ON	
	840'	925'	85'	Red and Brown S	hale (some sandrock)		CY ON	
-	925'	975'	50'	Watersand and G	iravel			· · · · · · · · · · · · · · · · · · ·
-	975'	1 185'	210'	Watersand (brow	in sandrock)			
	1 185'	1 192'	7'	Red Shale	in sandrocky			
	1,105	1,172		Red Shale				
-								
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÷	<u>. </u>						$O^{+}O^{+}$	
.							C C	
							$\begin{array}{c c} C & C \\ \hline \end{array} \\ \hline \\ \hline$	
-								
-	METHODI		TIMATE VIELT	OF WATER READIN		ТО	$\left[\bigcirc ^{*} \bigcirc ^{*} \bigcirc ^{*} \right]$	
14.7 A	C AIR LIF	T C	BAILER C	OTHER - SPECIFY:	O STAATA. (TOMP	W	ELL YIELD (gpm):	
	WELL TES	TEST STAF	RESULTS - ATT RT TIME, END TI	TACH A COPY OF DAT ME, AND A TABLE SI	TA COLLECTED DURING WELL TES HOWING DISCHARGE AND DRAWD	TING, INCLUI OWN OVER T	DING DISCHARGE N HE TESTING PERIO	ЛЕТНОД, D.
F	MISCELLA	NEOUS IN	FORMATION:					
	0' to 757' 757' to 1	' drilled w 192' drille	ith mud. d with air and	foam.				
	PRINT NAI	ME(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PRO	OVIDED ONSITE SUPERVISION OF W	/ELL CONSTR	UCTION OTHER TH	AN LICENSEP
	THE UNDE CORRECT AND THE I	ERSIGNED RECORD (PERMIT HO	HEREBY CERTI DF THE ABOVE I DLDER WITHIN :	FIES THAT, TO THE B DESCRIBED HOLE AN 20 DAYS AFTER COM	BEST OF HIS OR HER KNOWLEDGE AND THAT HE OR SHE WILL FILE THI IPLETION OF WELL DRILLING:	AND BELIEF, " S WELL RECC	THE FOREGOING IS ORD WITH THE STA	A TRUE AND TE ENGINEER
	Con	Ry SIGNAT	Lem TURE OF DRILL	Conk er / print signer	NAME	9	/9/14 DATE	·····
<u>()</u>		NAL TIPE				/R_20 11/ETT 7	ECORD & LOG (V~	reion 06/09/2014
ILI	E NUMBER	<u>P</u> P_	1255		POD NUMBER / T	RN NUMBER		$\overline{\mathbf{C}}$
		U1-					J 7770	<u>ر</u>

Released to Imaging: 1/7/2022 12:04:10 PM



WELL RECORD & LOG

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	OSE POD N	IMBER ()	/FLL 7	NIMBER)	manifestration in the second second	an a		OSE FILE NU	MBER(S)			
Z	CP - 135	5 East S	tand	lard (South)							, ST	
0H	WELL OWN	ERNAME	(S)					PHONE (OPTI	(NAL)			
)CA	Merchan	ts Lives	stock	c/Glenn's Wate	r Well Service, In	с.		(575)398-2	2424	The Party State St	[7] [7]	
Ę	WELL OWN	ER MAILI	NG AI	DDRESS	, <u> </u>	·		CITY	·····	STATE 1	C) ZIP	
ELI	P.O. Box	692				Tatum				NM 0 882	67	
MO				DECREE	MINIFES	SECON	vc					
NA N	WELL			. 32	26	54.8	13	* ACCURACY			õ	
ML	GROM G		ATIT			50.0	N	* DATUM REQUIRED: WGS 84				
NER	(TROM G		.ONGI	TUDE 103	33	58.3	W				<u> </u>	
ିଞ୍ଚି	DESCRIPTIO	N RELATIN	G WEL	L LOCATION TO STREE	T ADDRESS AND COMM	ON LANDMARKS - PLS	S (SECTION, T	OWNSHJIP, RANG	E) WHERE AVAILABLE			
. ∺ :	NE/NW/S	SW Sec.	27,	T21S, R33E on I	Merchants Lives	tock Land						
tattantan am	LICENSE NU	JMBER	1	NAME OF LICENSED	DRILLER		· · · · · · · · · · · · · · · · · · ·		NAME OF WELL DR	ILLING COMPANY	100 - 100 TEM - 10	
	WD 421			Corky Glenn					Glenn's Water	Well Service, Inc.		
	DRILLING S	TARTED		DRILLING ENDED	DEPTH OF COMPLET	ED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FI	F)	
	7/29/14		8/2	2/14	1192'	· · /	1192'	(,	925'	(-,	
0 §			<u> </u>	<u>_</u>			1		STATIC WATER LE	VEL IN COMPLETED W	ELL (FT)	
	COMPLETED WELL IS: ARTESIAN C DRY HOLE C SHALLOW (UNCONFINE)								582'			
Í0I.				N	<u></u>						•	
IAT	DRILLING METHOD. O BOTARY O BANAMED C CABLE TOOL O OTHER SECTEV.											
OR	DRILLING N	AETHOD:	•	ROTARY	C HAMMER (CABLE TOOL	() OTHE	R - SPECIFY:		· · · · · · · · · · · · · · · · · · ·		
INFC	DEPTH (feet bgl) BORE HOLE			BORE HOLE	CASING MATE	RIAL AND/OR	CA	SING	CASING	CASING WALL	SLOT	
Ş	FROM TO DIAM		(include each ca	sing string, and	CON	VECTION	INSIDE DIAM.	THICKNESS	SIZE			
ASI			• •	(inches)	note section	IIFE .		(inches)	(inches)	(inches)		
S S	0'	40'		20"	16"		None		15 1/2"	.250		
ŊŊ	0'	757'		14 3/4"	9 5/8"		Thread	and Collar	.352	36 lbs.	none	
	757'	1192'		8 3/4'	7"		Thread	and Collar	6.5"	23 lbs.	1/8"	
DRI												
2								· · · ·				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1												
		West and										
Х () (DEPTH	(feet bgl))	BORE HOLE	LIST AN	NULAR SEAL MA	ATERIAL A	ND	AMOUNT	METHO	DD OF	
AL	FROM	TO		DIAM. (inches)	GRAVEL P.	ACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACE	MENT	
ERI,	0'	40'		20"	Cemented				2 yds	Top Pour		
ΙΨ	0'	757'		14 3/4"	Float and Shoe	Cemented to	Surface		1034	Circulated		
RM				<u></u>				· · · · · ·	<u>.</u>			
JLA									<u> </u>			
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N.								·	:			
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	0000 n				L				L			
rOR	USE INTER	NAL US	E					WR.2	H WELL RECORD	& LOG (Margian 06)	08/20121	

TOROGENITIAL	VAL OOD		WK-20 WELLKE	OKD & LOG (Version 00/08/2012)
FILE NUMBER	CP-1355	POD NUMBER /	TRN NUMBER	549450
LOCATION	EXP	215.33E	.27.312	PAGE 1 OF 2

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	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO) WATER- BEARING ZONES (gpm)
	0'	4'	4'	Soil	CY ON
	4'	28'	24'	Caleche	CY ON
	28'	120'	92'	Sand and Clay	CY ON
	120'	260'	140'	Red Clay	
	260'	757'	497'	Red and Brown Shale and Clay(some blue)	CY ON
L.	757'	815'	58'	Red and Brown Shale	CY ON
VEL	815'	840'	25'	Blue Clay and Shale	
OF	840'	925'	85'	Red and Brown Shale(some sandrock)	CY © N
S	925'	975'	50'	Watersand and Gravel	• • • • • •
I III	975'	1185'	210'	Watersand(brown sandrock)	
မီ	1185'	1192'	7'	Red Shale	
EO					
ROG					$O^{Y} O^{N}$
IXD					
4.1	:				
					$\bigcirc Y \bigcirc N$
			••	····	
	METHOD U	JSED TO E T C	STIMATE YIELI BAILER C	O OF WATER-BEARING STRATA: PUMP T OTHER – SPECIFY:	TOTAL ESTIMATED WELL YIELD (gpm): 50
NC	WELL TES	ST TEST STAF	RESULTS - ATT RT TIME, END TI	TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	UDING DISCHARGE METHOD, THE TESTING PERIOD.
JISIC	MISCELLA	NEOUS IN	FORMATION:		je standina za stani se zako poso zako stani
ERV					
r; RIG SUI	0' to 757	7' drilled v	with mud. 757	" to 1192' drilled with air and foam.	
5. TES	PRINT NAI	ME(S) OF D	DRILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	RUCTION OTHER THAN LICENSEE:
VTURE	THE UNDE CORRECT AND THE I	ERSIGNED RECORD (PERMIT HO	HEREBY CERTI)F THE ABOVE I OLDER WITHIN	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL REC 20 DAYS AFTER COMPLETION OF WELL DRILLING:	F, THE FOREGOING IS A TRUE AND CORD WITH THE STATE ENGINEER
6. SIGN ⁴	_6	SIGNA	Hem IURE OF DRILL	Corky Glesse B	<u>/h/14</u>
					ente : : Milette de la compañía
FO	R OSE INTER	NAL USE	0	WR-20 WELL	RECORD & LOG (Version 06/08/2012)
FIL	E NUMBER	<u>CP-</u>	- <i>13</i> 55	POD NUMBER / TRN NUMBER	<u>r 549450</u>
Lro	JATION	E,	xpl	215.33E.27.3	PAGE 2 OF 2

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			(qu	(quarters are 1=NW 2=NE 3=SW 4=SE)							
			(q	uarters	are s	malles	t to lare	gest)	(NAD83 L	JTM in meters)
Well Tag	PO	D Number	Qe	64 Q1	6 Q4	Sec	Tws	Rng	Х	. Y	
	CP	01356 POD1	2	2	2	33	21S	33E	634560	3590014	1 🥌
Driller Licens	se:	421	Driller	Com	pany	: Gl	ENN	'S WA	TER WELL	SERVICE	
Driller Name:		GLENN, CLARK	A."CORI	<y"< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></y"<>							
Drill Start Dat	te:	08/01/2014	Drill Fi	nish	Date	:	08/0	09/2014	4 Plu	g Date:	
Log File Date):	08/25/2014	PCW F	cv D	ate:				Soι	irce:	Artesian
Pump Type:			Pipe D	ischa	rge	Size:			Est	imated Yie	ld:
Casing Size:		6.37	Depth	Well:			109	8 feet	Dep	oth Water:	555 feet
w	ater	^r Bearing Stratific	ations:		Тор	Bott	om	Descri	ption		
					765		795	Sandst	tone/Grave	el/Conglome	erate
					795		825	Shale/I	Mudstone/	Siltstone	
					825	9	920	Sandst	tone/Grave	el/Conglom	erate
					920	9	935	Shale/I	Mudstone/	Siltstone	
					935	1	968	Sandst	tone/Grave	el/Conglome	erate
					968	1	976	Shale/I	Mudstone/	Siltstone	
					976	1	005	Sandst	tone/Grave	el/Conglome	erate
				1	005	1	092	Sandst	tone/Grave	el/Conglome	erate
		Casing Perfo	rations:		Тор	Bott	om				
					735	1	098				

			(quar	ters are	I=NW 2	=NE 3=	=SW 4=S	SE)			
			(qua	arters are	smalles	st to lar	gest)	(NAD83 U1	M in meters)		
Well Tag	PC	D Number	Q64	Q16 Q	4 Sec	Tws	Rng	Х	Y		
	CF	01357 POD1	4	3	1 27	21S	33E	634782	3591347	\$	
Driller Licens	se:	421	Driller C	ompar	y: G	LENN	I'S WA	TER WELL	SERVICE		
Driller Name:	:	GLENN, CLARK	A."CORK	Y"							
Drill Start Da	te:	08/16/2014	Drill Finish Date: 08/26/2014				4 Plug Date:				
Log File Date	og File Date: 09/10/2014 PCW Rcv I			v Date	:			Sour	ce:	Artesian	
Pump Type:			Pipe Discharge Size:					Estir	Estimated Yield:		
Casing Size:		6.37	Depth W	/ell:		128	36 feet	Dept	h Water:	578 feet	
w	ate	r Bearing Stratifi	cations:	Тор	b Bot	tom	Descri	iption			
				945	5	960	Sandst	tone/Gravel	/Conglome	rate	
				960) 1	077	Shale/I	Mudstone/S	siltstone		
				1077	7 1	215	Sandst	tone/Gravel	/Conglome	rate	
				121	5 1	286	Shale/I	Mudstone/S	iltstone		
	Casing Perfor		orations:	Тор	b Bot	tom					

		(quarte	ers are 1=	NW 2=NE	3=SW 4=SE	E)		
		(quar	ters are s	mallest to I	argest)	(NAD83 UTM ii	in meters)	
Well Tag	POD Number	Q64	Q16 Q4	Sec Tv	vs Rng	Х	Y	
	CP 01411 POD1		2 2	34 21	S 33E	635968 3	590386 (9
Driller Licens	se: 1723	Driller Co	ompany	: SBQ2	, LLC DB	A STEWART	BROTHE	ERS DRILLING
Driller Name:	RANDY STEW	/ART		CO.				
Drill Start Da	te: 10/09/2014	Drill Finis	sh Date	: 1)/14/2014	Plug Da	ate:	
Log File Date	: 12/26/2014	PCW Rcv	v Date:			Source	:	Artesian
Pump Type:		Pipe Disc	Pipe Discharge Size:			Estimat	ted Yield	: 50 GPM
Casing Size:	9.88	Depth W	ell:	1	149 feet	Depth V	Nater:	
W	ater Bearing Strat	ifications:	Тор	Bottom	Descrip	otion		
			800	820	Sandsto	one/Gravel/Co	onglomera	ate
			820	1145	Sandsto	one/Gravel/Co	onglomera	ate
	Casing Pe	rforations:	Тор	Bottom				
			780	1149				



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD N	JMBER (W	ELL NUMBER)			OSE FILE NU	MBER(S)		
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TIC	WELL OWN	ER NAME	S)			PHONE (OPTI	ONAL)		
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ERAI	(FROM G	PS)	ONGITUDE 103	33 12.9	Ŵ	• DATUM RE	QUIRED: WGS 84		
1. GEN	DESCRIPTIO	N RELATING	WELL LOCATION TO STREE	TADDRESS AND COMMON LANDMARKS - PLS	S (SECTION, T	OWNSHUP, RANC	E) WHERE AVAILABLE		
	L. LICENSE NI	IMAER	NAME OF LICENSED				NAME OF WELL DR	ULLING COMPANY	
	1723		Randal P Stewa	irt			Stewart Brothe	ers Drilling Com	pany
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT) 1149	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (I	T)
	COMPLETE	D WELL IS	artesian	C DRY HOLE C SHALLOW (UNC	ONFINED)		STATIC WATER LE	VEL IN COMPLETED	VELL (FT)
VIIO	DRILLING F	LUID:	C AIR	MUD ADDITIVES - SPI	CIFY:		<u>}</u>		
RMA	DRILLING N	AETHOD:	C ROTARY	C HAMMER C CABLE TOOL	С отне	R - SPECIFY:			
NFO	DEPTH (feet bgl) BORE HOLE CASING MATERIAL AND/OR					ENC.	CASING	CASING WALL	ET OT
SING I	FROM TO DIAM (inches)		DIAM (inches)	GRADE (include each casing string, and note sections of screen)		VECTION YPE	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)
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Ň	700	1140	0.7/0	A 53 Grade P	Maldad	<u></u>	0	222	135
RILI	/80	1149	9770	A 55 GIAGE 5	Weideo		0	.342	.125
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	DEDTU	(Conthall)							
AL	FROM	(teel ogr)	DIAM. (inches)	GRAVEL PACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACI	OD OF J
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FOR	OSE INTER	NAL USE				WR-20	WELL RECORD	& LOG (Version 06.	08/2012)
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LOC	ATION	<u> </u>	X12	215.231	30	1.22	•	PAG	ETOF2
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During (ref. g) THICKNESS COLOR AND PYPE OF MATEMALE NCOUNTERED. WATEMAL WATEMAL BRAINO FROM TO (ref.) THICKNESS Include supplaneated sheets to fully decribe all unity WATEMAL BRAINO Include supplaneated sheets to fully decribe all unity WATEMAL BRAINO Include supplaneated sheets to fully decribe all unity WATEMAL Include supplaneated sheets to fully decribe all unity Include supplaneated suplaneated supplanea		DEDTT1 /	C (b 1)	1				
FROM TO (fee) Inclusion applementation of the star fully deverter all units (YES / NO) REARING 0 40 40 Brown Fine Sand and Clavs, some callche (Y & N) (ZONES (grs)) 0 40 100 60 Reddish Brown clav and Sands (Y & R) (ZONES (grs)) 100 200 100 Red and Brown clav with some sand (Y & R) (X & R) 200 300 100 Red and Brown clav with some sand (Y & R) (Y & R) 200 300 100 Red and Brown clav with some sand (Y & R) (Y & R) 200 300 100 Red Clav and barder sands and gravels (Y & R) (Y & R) 500 700 200 Red Clav and barder sands and gravels (Y & R) (Y & R) 700 750 50 Red Clav and barder sands and gravels (Y & R) (Y & R) 700 780 10 Grav Brown Sandstone (Y & R) (Y & R) 770 780 10 Saran Bosa Sand (Y & C) (Y & R)		DEPIR		THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED - WATER YIELD FOUND WATER-BEARING CAVITIES OF FRACTURE ZONES BEARING?	R		
0 40 40 Brown Fine Sand and Clavs, some callche C Y N 40 100 60 Reddish Brown Clavs and Sands C Y N N 100 200 100 Clavs and Sands C Y N N 200 300 100 Red and Brown Clav with some sand C Y N N 200 300 100 Red and Brown Clav with some sand C Y N N 400 500 100 Red and Brown Clav with some sand C Y N N 500 700 200 Reddish and arav clav C Y N N N 700 720 Reddish and arav clav C Y N		FROM	то	(feet)	(attach supplemental sheets to fully describe all units) (YES / NO) BEARING ZONES (gpr) m)		
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C Y C N C Y C	R I	820	1145	325	Santa Rosa Sand			
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METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP TOTAL ESTIMATED C AIR LIFT C BAILER OTHER-SPECIFY: WELL YIELD (gpm): 50 WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, MISCELLANEOUS INFORMATION MISCELLANEOUS INFORMATION PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Danny White, Don Ward, Davis Gaddy THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING. MORE TREE OF DRILLER / PRINT SIGNEE NAME $U/30/14/$ DATE FOR OSE INTERNAL USE FOR OSE INTERNAL USE VELL POD NUMBER FOR OSE INTERNAL USE $U/41/$ PAGE 2 OF 2 $2/15.33.6.34.34.34.25$	ĺ							
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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NI	JSE POD NUMBER (WELL NUMBER)						OSE FILE NUMBER(S)			
Z	POD 2 CP-1411										
ERAL AND WELL LOCATIO	WELL OWNER NAME(S)						PHONE (OPTIONAL)				
	BC Operating						432-684-9696				
	WELL OWNER MAILING ADDRESS						CITY STATE ZIP				
	4000 Big Spring St. STE 310						Midland TX		TX 797	05	
	WELL DEGREES			DEGREES	S MINUTES SECONDS		T				
	LOCATION (FROM GPS)		ATITI	JDE 32	26 31.6 _N		 ACCURACY REQUIRED ONE TENTH OF A SECOND DATUM REQUIRED: WGS 84 				
			LONGI	TUDE 103	33 29.5 W						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILAB											
	LICENSE NUMBER NAME OF LICENSED DRILLER						NAME OF WELL DRILLING COMPANY				
NG & CASING INFORMATION	1723		Randal P Stewart				Stewart Brothers Drilling Company				
	DRILLING STARTE		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT) BORE F 10/8/14 1125		LE DEPTH (FT)	DEPTH(FT) DEPTH WATER FIRST ENCOUNTERED (FT) 840		T)	
	COMPLETED WELL IS: (AF			ARTESIAN	C DRY HOLE C SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT)			
						SPECTEV					
	DRILLING METHOD: G ROTARY C HAMMER C CABLE TOOL C OTHER - SPECIFY:										
	DEPTH (feet bgl)				CASING MATERIAL AND/OR						
	FROM		<u> </u>	DIAM	GRADE		ASING		CASING WALL	SLOT	
				(inches)	(include each casing string, and note sections of screen)	1	YPE	(inches)	(inches)	(inches)	
	0	40		20	A 53 Grade B	Welded	i	15.5	.250		
	+2	756		14 3/4	A 53 Grade B	Thread	ed	10.02	.365		
	744	1125	14-2+4 97/R		A 53 Grade B	Welded	1	8	.322	.125	
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	DEPTH (feet hei)					(ATEDIAL A					
R MATERIAL	FROM TO			BORE HOLE DIAM. (inches)	GRAVEL PACK SIZE-RANGE BY INTERVAL		RVAL	(cubic feet) METHODA		OD OF J MENT	
	0 40			20 Neat Cement				31 Pres su re		ia Tremi	
	0 756		14 3/4 Class C (Chief Services)				545 Sks	Chief Serv	Chief Services		
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[,	DEPTH	faat bol)	T			ESTIMATED			
	FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)			
	0	40	40	Brown Fine Sand and Clavs. some caliche	CY ON	·			
	40	100	60	Reddish Brown clavs and Sands	CYON				
	100	200	100	Clavs and Sands	CY ON				
	200	300	100	Red and Brown clav with some sand	CYON				
	300	400	100	Red Clav	CY ON				
L I	400	500	100	Clav and Sand	CY ON				
VEL	500	700	200	Reddish and grav clav	CYON				
0F.	700	765	65	Red Clav and harder sands and gravels	CYEN	·····			
90	765	770	5	Fine sand	C Y O N				
IC F	770	810	40	Grav Shale	CY ON				
00	810	820	10	Grav Brown Sandstone	CY ON				
EOI	820	830	10	Grav and Brown SS	CY ON				
ROG	830	840	10	Gray Brown SS	CY CN				
	840	1125	285	Santa Rosa Sand	OY CN				
4					CYCN				
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				May	CYCN				
	<u> </u>				CYCN				
	METHOD I	USED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA: PUMP OTHER – SPECIFY:	TOTAL ESTIMATED WELL YIELD (gpm):	50			
	TEST DESULTS - ATTACH & CODY OF DATA COLLECTED DUDING WELL TESTING INCLUDING DISCUARCE METHOD								
N	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.								
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	THE UNDE	RSIGNED I	IEREBY CERTIF	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE	F, THE FOREGOING IS	A TRUE AND			
URE	CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:								
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L L L L L L L L L L L L L L L L L L L	Declaration of Owner of Underground Water Right /7 CAPITAN BASIN Date received April 17, 1976720 PH 3 01 BASIN NAME '19 fin 20 PH 3 01 STATE ENCINEER OFFICE STATE ENCINEER OFFICE Statemation No. CP-600 STATE ENCINEER OFFICE State Name of Declarant THE MERCHANT LIVESTOCK COMPANY Mailing Address Box 548 Courty of Eddy Source of water supply shallow (aresian or shallow water aquifer) Describe well location under one of the following subhadings:
D 1. 2. 3. 4 4 5 6	CAPITAN BASIN NAME NAME NAME NATE APTIL 17, 1979 20 PH 3 01 BASIN NAME STATEMENT STATE ENGINEER OFFICE Name of Declarant THE MERCHANT LIVESTOCK COMPANY SANTA FE, N.M. 87501 Mailing Address Box 51,8 Carlsbad County of Eddy , State of New Mexico Source of water supply shallow Statesian or shallow water aquifer) Describe well locition undro one of the following subleadings: a. N.M.P.M. in Loa county. of the County. In the Grant. On land owned by Grant. On land owned by of Map No. of the! Grant. On land owned by or of how or of poly. gal. per min.; present capacity 3 gal. per min.; pumping lift feet; static water level 37_feet (above) (below) land aurface; maxe and type of pump make; type, horsepower, etc., of power plant NATEXEXEXEXEXEX (acre feet per annum) for. stock water scress, located and described as follows (describe only lands actually irrigated): Acress Subdivision Sec. Twp. Ronge kirrigeted Owner Subdivision
D 1. 2. 3. 4 5 6 - - - - - - - - - - - - -	BASIN NAME Date received April 17, 1979 April 20, 1979 STATEMENT STATE ENGINEER OFFICE Name of Declarant THE MERCHANT LIVESTOCK COMPANY SANTA FE, N.M. 87501 Mailing Address Box 51,8 Carlsbad County of
1. 2. 3. 4 5 6 6 - - - - - - - - - - - - - - - - -	STATE ENCINEER OFFICE SANTAFE, N.M. 87501 Name of Declarant THE MERCHANT LIVESTOCK COMPANY SANTAFE, N.M. 87501 Mailing Address Box 51,8 Carlsbad County of
2. 3. 4 5 6	Source of water supply Shallow (artesian or shallow water aquifer) Describe well location under one of the following subheadings: a. MNE M SE V of Sec. 25 Twp. 21S Rge. 33-E N.M.P.M., in b. Tract No. of Map No. of the
3. 4 5 6 - - - - - - - - - - - - - - - - - -	Describe well location under one of the following subheadings: a
4	On land owned by
4	Description of well: date drilled 1940 driller depth 651 freet. outside diameter of casing 6 5/Binches; original capacity gal. per min.; present capacity 3 gal. per min.; pumping liftfeet; static water level 37_feet (above) (below) land surface; make and type of pump make, type, horsepower, etc., of power plant Fractitional or percentage interest claimed in well 100% Quantity of water appropriated and beneficially used (acre feet per annum) for stock water (acre feet per annum) for stock water acres, located and described as follows (describe only lands actually irrigated): Acreas Subdivision Sec. Twp. Range Irrigoted Owner
5	outside diameter of casing 6 5/8 nches; original capacitygal. per min.; present capacity gal. per min.; pumping liftfeet; static water level37feet (above) (below) land surface; make and type of pump make, type, horsepower, etc., of power plant Fractitional or percentage interest claimed in well 100% Quantity of water appropriated and beneficially used for_stock water
5	make, type, horsepower, etc., of power plant
5	Fractitional or percentage interest claimed in well 100% . Quantity of water appropriated and beneficially used up_to_3 for_stock water (acre feet per annum) for_stock water pupposes. . Acreage actually irrigated acres, located and described as follows (describe only lands actually irrigated): Acres Subdivision Sec. Twp. Range Irrigated Owner Stock only The Merchant Livestock Co.
5	. Quantity of water appropriated and beneficially used
6 - - - 7	for_stock water
6 - - - 7	Acreage actually irrigated acres, located and described as follows (describe only lands actually irrigated): Acres Subdivision Sec. Twp. Range Irrigated Owner Stock only The Merchant Livestock Co.
7	
- 7	
7	
7	(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)
	. Water was first applied to beneficial use month day year z and since that time
	has been used fully and continuously on all of the above described lands or for the above described purposes except
-	
-	
-	
8.	Additional statements or explanations
-	
-	J. D. Merchant, Jr., President being first duly sworn upon my oath, depose and say that the above is applied and complete statement prepared in accordance with the instructions on the re-
	read each and all of the iter sontained therein and that the same are true to the best of my knowledge and belief. THE MERCHANT LIVESTOCK CO., declarant.
Si	$by = \sqrt{D/1/0} \sqrt{A}$

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

...., Range

INSTRUCTIONS

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

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

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

Secs. 1-3. Complete all blanks.

c •

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

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

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

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

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

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



Released to Imaging: 1/7/2022 12:04:10 PM

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April 17, 1973

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

The Merchant Livestock Company P. O. Box 548 Corlabad, Al 88220

Gentlemen:

Unclosed are your copies of Declarations of Owner of Underground Dater Night as numbered above, which have been filed for record in the office of the State Engineer.

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

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

Yours very truly,

J. C. Groseclose Basin Supervisor

JCG/fh Encls. cc: Santa Fe

	Declaration of Owner of Underground Water Right 4
	CAPITAN BASIN
	BASIN NAME
	Declaration No. CP-601 Date received April 17, 1979 E CNGINEER OFFICE
· · · · · · · · · · · · · · · · · · ·	SANTA FE, N.M. 87501
	1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
	Mailing Address P.O. Box 548 Carlsbad
	County of Eddy, State of New Mexico
	Cource of water supply(artesian or shallow water aquifer)
	3. Describe we included one of the following subneadings: a. 4 NE 4 NW 4 of Sec. 28 Twp. 215 Rge. 33-E N.M.P.M. in
	- Lea County.
	c. X = feet, Y = feet, N. M. Coordinate System Zone
	in the Grant.
	4. Description of well: date drilled <u>1952</u> driller depth <u>2231</u> feet.
	outside diameter of casing <u>6 5/0</u> inches; original capacitygal. per min.; present capacity3
	gal. per min.; pumping liftfeet; static water level_ <u>178</u> feet (above) (below) land surface;
	make and type of pump
	make, type, horsepower, etc., of power plant
	Fractitional or percentage interest claimed in well100%
	5. Quantity of water appropriated and beneficially used up to 3
	(acre feet per annum)
	o. Acreage actually imigated acres, located and described as follows (describe only lands actually imigated):
	Acres Subdivision Sec. Twp. Range Irrigated Owner
	stock only The Merchant Livestock Co.
	(Note: location of well and acreage actually irrigated must be shown on plat on reverse state.)
	7. Water was first applied to beneficial use 1952
	month day year in the above described lands or for the above described puses except
	as follows:
	8. Additional statements or explanations
	name of well = Standard
. · · · ·	
	I. J. D. Merchant. Jr. President
	depose and say that the above is a full adding protect statement prepared in accordance with the instructions on the re-
	verse side of this form and submarted in third we want of a valid underground water right, that I have carefully read each and all of the items optimized therein and that the same are true to the best of my knowledge and baliaf
,	Sige , The same are the to the best of my knowledge and beller.
	THE PLEAVE LIVESTOCK CO. declarant.
	by: JSD. Merchant, Jr.)President







INSTRUCTIONS

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

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

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

Secs. 1-3. Complete all blanks.

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

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

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

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

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

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

БC

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April 17, 1979 ATATE ENGINEER OFFICE CLOCKER C.M.M. 81501

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

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

Gentlemen:

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

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

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

Yours very truly,

J. C. Groseclose Basin Supervisor

JCG/fh Encls. cc: Santa Fe

563298

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC	372417
11490 Westheimer Rd., Ste 950	Action Number:
Houston, TX 77077	60633
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Closure Report Approved for area not being deferred. 2. Deferral for area under production equipment is granted. Future investigation/remediation to be completed at plug and abandonment of tank battery.	1/7/2022

Action 60633