October 17, 2019

# 1RP-5554 Characterization & Closure Report Merchant Recycling Containment (1RF-29) AKA: Blueberry-Cheddar Release



# Prepared for Advance Energy Partners Hat Mesa LLC Houston, Texas

Prepared by R.T. Hicks Consultants, Ltd. Albuquerque, New Mexico C-141
Including Closure Form

# State of New Mexico Oil Conservation Division

Incident ID	NDHR1917057690
District RP	1RP-5554
Facility ID	fOY1807136904
Application ID	pDHR1917056172

# **Release Notification**

# **Responsible Party**

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417	
Contact Name: David Harwell	Contact Telephone: 281-235-3431	
	1	
Contact email: DHarwell@advanceenergypartners.com	Incident # (assigned by OCD) NDHR1917057690	
	NDHK191/05/690	
Contact mailing address: 11490 Westheimer Rd. Suite 950.		
Houston, TX 77077		
I coation of Dalagae Common		
Location of Release Source		
Latitude 32.4444614	Longitude <u>-103.5729915</u>	

Site Name: Merchant Recycling Containment (1RF-29)	Site Type: Layflat flow line – recycled produced water
Date Release Discovered: June 3, 2019 (15:00 hrs)	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County
P	28	T21S	R33E	Lea

Surface Owner:	Federal	Tribal	Private	

# **Nature and Volume of Release**

	ai(s) Released (Select all that apply and attach calculations of specifi	
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
/D 1 1377	V 1 D 1 1(111) 200 700 :	V 1 D 1/111)
✓ Produced Water	Volume Released (bbls) 300-500+	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the	✓Yes □ No
		, 1cs 1vo
	produced water >10,000 mg/l?	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
	(colo)	(0015)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
	Volume Released (Mer)	Volume recovered (19161)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
cuiei (deseriee)	(provide dimes)	voidine vvoigne recovered (provide dines)
Cause of Release: Kingsl	ey Construction Inc., under contract to Goodnight Mids	stream, working along a pipeline ROW punctured
Advance Energy's layflat	flow line transferring treated produced water from the	Merchant Recycling Containment to the Dagger
	now fine transferring treated produced water from the	Werenant Recycling Contaminent to the Dagger
Recycling Containment.		

## State of New Mexico Oil Conservation Division

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Was this a major
release as defined by
19.15.29.7(A) NMAC? > 25 bbls.
✓Yes □ No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was giving via email on 06/04/2019 at 07:00 hrs to EMNRD-OCD-District1spills@state.nm.us by
Andrew Parker of R.T. Hicks Consultants on the behalf of Advance Energy Partners Hat Mesa, LLC.
Initial Response
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
✓ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Released produced water soak into the ground. No freestanding liquid to recover.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.
Printed Name: Andrew Parker Title: Sr. Env. Specialist
Signature: Date: Date:
email: <u>andrew@rthicksconsult.com</u> Telephone: <u>970-570-9535</u>
OCD Only

# State of New Mexico Oil Conservation Division

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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? (Plates 2 and 3)		
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? (Plate 5)	☐ 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)? (Plates 5)	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? (Plate 6)	☐ 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? (Plates 4)	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? (Plates 4)	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? (Plate 4)	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland? (Plate 7)	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine? (Plate 8) In a Potash District	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology? (Plate 9)	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain? (Plate 10)	☐ Yes ⊠ No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?		
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.		

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

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

## State of New Mexico Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: _Andrew Parker	Title:Sr. Env. Specialist			
Signature: Marchon	Date:October 17, 2019			
email: <u>andrew@rthicksconsult.com</u> Telephone: <u>970-570-9535</u>				
OCD Only				
Received by: Cristina Eads	Date: 01/24/2020			

### State of New Mexico Oil Conservation Division

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# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> </ul>
<ul> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Andrew Parker Title: Sr. Env. Specialist
Signature: Date:October 17, 2019
email: _andrew@rthicksconsult.com Telephone: _970-570-9535_
OCD Only
Approved
Signature: Date:

# State of New Mexico Oil Conservation Division

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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.

☐ A scaled site and sampling diagram as described in 19.15.29.11	NMAC				
Nhotographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
□ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules nd regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which have endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability hould their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, uman health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for ompliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially estore, 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.  Title: Sr. Env. Specialist  ignature:					
OCD Only  Received by: Cristina Eads	Date: 01/24/2020				
Received by: Cristina Eads	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: Cristina Cads	Date: 02/07/2020				
Printed Name: Cristina Eads	Title: Environmental Specialist				

#### andrew@rthicksconsult.com

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>

Sent: Tuesday, August 27, 2019 9:40 AM

To: andrew@rthicksconsult.com; EMNRD-OCD-District1spills; Griswold, Jim, EMNRD

**Cc:** dharwell@advanceenergypartners.com; 'Connolly, Leslie M.'

**Subject:** RE: 1RP-5554 request for extension RE: [EXT] Merchant Layflat Line Release 06/03/2019

Flag Status: Flagged

Hello,

Thanks for the information. Time extension of 45 days from August 20, 2109 (request date) is granted for stated purposes.

Please keep us informed of any additional issues if the arise.

Sincerely,

Bradford G. Billings

EMNRD/OCD Santa Fe

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Tuesday, August 27, 2019 7:00 AM

To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Griswold, Jim, EMNRD

<Jim.Griswold@state.nm.us>

Cc: dharwell@advanceenergypartners.com; 'Connolly, Leslie M.' <lconnolly@hselaw.com>

Subject: RE: 1RP-5554 request for extension RE: [EXT] Merchant Layflat Line Release 06/03/2019

Jim:

I did not received a response for the request for an extension of time. We talked on the phone about the extension last week. Just checking on the status. FYI: Remediation resumed yesterday (08/27/2019).

Thanks.

Andrew Parker R.T. Hicks Consultants Durango Field Office Cell: (970) 570-9535

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Tuesday, August 20, 2019 8:24 AM

To: 'EMNRD-OCD-District1spills@state.nm.us' < <a href="mailto:EMNRD-OCD-District1spills@state.nm.us">EMNRD-OCD-District1spills@state.nm.us</a>; 'Jim.Griswold@state.nm.us'

<Jim.Griswold@state.nm.us>

Cc: 'dharwell@advanceenergypartners.com' <dharwell@advanceenergypartners.com>; 'Mann, Ryan'

<rmann@slo.state.nm.us>; 'Connolly, Leslie M.' <lconnolly@hselaw.com>

Subject: 1RP-5554 request for extension RE: [EXT] Merchant Layflat Line Release 06/03/2019

#### NMOCD:

On the behalf of Advance Energy Partners Hat Mesa, R.T. Hicks Consultants respectfully requests for an extension of time for 1RP-5554 from the 90-day final closure report submission. The 90-day remediation and closure report is due on September 1, 2019. We ask for a 45-day extension to complete the remediation and submit a closure report without having to submit a workplan for NMOCD approval.

The remediation is approximately 90% complete with the exception of two areas approximately 15x15x4.5 feet.

The reasons for the extension request:

- 1. One of the two remaining areas may be within a co-mingled area of an Enterprise Pipeline Release (1RP-5510)
- 2. Disagreement with Closure Criteria per Table 1 of 19.15.29 NMAC between the construction company, pipeline company, and adjacent land owner whom also has the grazing lease.

The remediation work is currently on hold until the pipeline construction contractor's legal counsel resolves these issues. We anticipate remediation will resume within the next 15-days.

Per 19.15.29.12.B

#### B. Remediation requirements.

(1) Unless remediation is completed, and a final closure report submitted, within 90 days of discovery of the release, the responsible party must complete division-approved remediation for releases either pursuant to a remediation plan approved pursuant to 19.15.29.12 NMAC or pursuant to an abatement plan in accordance with 19.15.30 NMAC. If the director determines that the release has caused water pollution in excess of the standards and requirements of 19.15.30 NMAC, the director may notify the responsible party that an abatement plan may be required pursuant to 19.15.30 NMAC.

(2) Any remediation under 19.15.29 NMAC should be completed as soon as practicable. Any remediation that exceeds 90 days must follow the division-approved timeline in the remediation plan. The responsible party may request an extension of time to remediate upon a showing of good cause as determined by the division.

Please contact me with any questions.

Thank you.

Andrew Parker R.T. Hicks Consultants Durango Field Office Cell: (970) 570-9535

From: Rose-Coss, Dylan H, EMNRD < <a href="mailto:DylanH.Rose-Coss@state.nm.us">DylanH.Rose-Coss@state.nm.us</a>>

Sent: Wednesday, June 19, 2019 4:40 PM

To: Andrew Parker <andrew@rthicksconsult.com>; Mann, Ryan <rmann@slo.state.nm.us>

Cc: <a href="mailto:dharwell@advanceenergypartners.com">dharwell@advanceenergypartners.com</a>; 'Jared

Newman' <jared.newman@rocketmail.com>; daniel martin <danielnmartin53@gmail.com>

Subject: RE: [EXT] Merchant Layflat Line Release 06/03/2019

All,

The NMOCD tracking number for this release is 1RP-5554. Please refer to this number in all future correspondence. Additionally, the division requests a spill volume calculation be submitted with the remediation report for this release and requests that one be submitted with the initial C-141 in the future.

Thanks,

#### **Dylan Rose-Coss**

Environmental Scientist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3488

From: Andrew Parker <a href="mailto:andrew@rthicksconsult.com">andrew@rthicksconsult.com</a>

Sent: Tuesday, June 4, 2019 7:42 AM

To: EMNRD-OCD-District1spills < <a href="mailto:EMNRD-OCD-District1spills@state.nm.us">EMNRD (EMNRD-OCD-District1spills@state.nm.us</a>); Griswold, Jim, EMNRD

<Jim.Griswold@state.nm.us>

Cc: <a href="mailto:dharwell@advanceenergypartners.com">dharwell@advanceenergypartners.com</a>; 'Jared

Newman' < <u>jared.newman@rocketmail.com</u>>; daniel martin < <u>danielnmartin53@gmail.com</u>>

Subject: [EXT] Merchant Layflat Line Release 06/03/2019

Mr. Griswold and District 1:

On the behalf of Advance Energy Partners Hat Mesa, LLC; R.T. Hicks Consultants submits the attached C-141. Please consider this email as the 24-hour release notification reporting for a major release.

Please contact me with any questions.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535

# Closure Report Characterization and Remediation

# 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

October 17, 2019

NMOCD District 1 (vacant)
District 1 - HOBBS
1625 N. French Drive
Hobbs, New Mexico 88240
Via Email:
Electronic Submittal
emnrd-ocd-district1spills@state.nm.us

RE: 1RP-5554 - Characterization and Closure Report Merchant Recycling Containment (1RF-29) AKA: Blueberry-Cheddar Release Advance Energy Partners Hat Mesa, LLC

#### NMOCD:

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

The produced water release occurred on June 3<sup>rd</sup>, 2019. Initial characterization was conducted by eTech Environmental on June 4-6<sup>th</sup>. Excavation of impacted soil began on June 4<sup>th</sup> and was stockpiled on location and within the release extent. Andrew Parker of R.T. Hicks Consultants performed third-party characterization on June 5<sup>th</sup> and 6<sup>th</sup>. On June 10<sup>th</sup>, R.T. Hicks Consultants took over characterization and remediation operations.

Remediation was completed by October 1, 2019. The C-141 including the Characterization and Closure Forms is attached. We respectfully ask NMOCD for closure of the regulatory file.

Hick Consultants relied on 19.15.29 NMAC for characterization, remediation, and closure reporting for 1RP-5554.

The location of the release is 32.4444614, -103.5729915 (Latitude/Longitude; NAD 83). The release occurred within silty sands from the surface to 5-feet below ground surface where a hard caliche layer was encountered.

#### The report is divided into three sections:

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

#### Plates

- Plate 1 Site Map
- Plates 2 through 10 As labeled on the C-141 Characterization Checklist
- Plate 11 Release Extent and Sample Locations
- Plate 12 Northern Excavation Extent and Sample Locations
- Plate 13 Southern Excavation Extent and Sample Locations

#### Tables

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

#### **Appendices**

- Appendix A OSE Well Logs
- Appendix B EM Survey Calibration Data
- Appendix C Laboratory Certificate of Analyses

### I. Initial Response

The release occurred on June 3, 2019 during surface restoration activities of a newly installed produced water pipeline owned and operated by Goodnight Midstream. Construction crews punctured Advance Energy's recycled produced water transfer layflat line (Figure 1 and Figure 2) at approximately 3:00pm.



Figure 1: Recycled produced water releasing from Advance Energy's layflat line. Photo is viewing west along Goodnight Midstream's pipeline right-of-way. Date: June 3, 2019. GPS: not recorded.



Figure 2: Release area viewing east along the newly installed Goodnight Midstream pipeline right-ofway. Date: June 3, 2019 @ 4:15pm. GPS: not recorded.

During initial response Kingsley Constructors Inc. (KCI) built a containment berm around the southern end of the north half of the release area (Figure 3).



Figure 3: Photograph of containment berm along southern half of northern portion of release area. Containment berm was constructed during the initial response on June 3rd. Photograph is the day R.T. Hicks Consultants took over remedial activities on June 10th. Date/Time: 2019-06-10 17:51:14. GPS: 32.4440167 N, 103.5732583 W.

#### 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 (Plates 2-10).

#### 1. Site Map

On June 5<sup>th</sup> and 6<sup>th</sup>, Mr. Parker characterized the release extent by conducting an electromagnetic (EM) survey with a Geonics EM-38. Plate 1 shows the delineation of the EM Survey (see Appendix B for a discussion on EM surveys) relative to the final excavation extent and pipelines. The release extent was delineated to a temperature corrected electrical conductivity (EC) reading of 0.20 dS/m. As discussed in Appendix B, an EC reading of 0.20 dS/m correlates with chloride concentrations below 600 mg/kg.

#### 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 (Plate 2). Spatial analysis shows:

- The nearest water well is located 0.2-miles southwest of the release; identified as CP-00854 POD1. Depth to water at this well 600 ft.
- The next two nearest water wells with recorded depth to water are located
  - o 0.35-miles southeast (CP-01356 POD 1) with a depth to water of 555-feet.
  - o 0.48-miles northeast (CP-01355 POD 1) with a depth to water of 582- feet.

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

OSE well logs show that the nearby wells have a minimum of 155 feet of pressure head above the confining layer. It is important to recognize that at CP-00854 ground water is at a depth of 755 feet and confining pressure causes the water column to rise 155 feet for a perceived depth to water of 600 feet bgs.

We recognize that thin water-bearing units above the regional water-bearing zone may not have been recorded by the well drillers. However, more shallow water-bearing zones would be sandstone units within the Dockum Group redbeds and, like the regional water-bearing zone, would be under artesian pressure.

Ground water flow is to the south-southwest as demonstrated on the potentiometric map (Plate 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 214 feet below ground surface, where

214 feet = 3664 ft surface elevation - 3450 ft potentiometric surface.

#### 3. Wellhead Protection Area

Plate 4 shows that the release extent is not:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ½-mile private and domestic water sources (wells and springs).
  - o CP-854, CP-1355, and CP-1356 are within ½-mile from the release extent. However, these wells are classified for exploration and commercial use.
- 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

Plate 5 shows that the release extent is:

- Within ½ mile of a significant watercourse (intermittent stream). The intermittent stream is 930-ft southwest of the southwest edge of the release extent
- <u>Not</u> within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- <u>Not</u> 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 right-of-way (ROW), and
- Pasture land south of the ROW.

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

Table 1 19.15.29 NMAC		Chloride	GRO+DRO	TPH+Ext	BTEX	Benzene
<b>DTW</b> > <b>100ft</b>		(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

Soil sampling, an EM Survey, and field screening for EC was employed to characterize and delineate the release extent.

Initial soil sampling for characterization was obtained by eTECH. eTECH's sampling data identified chloride as the constituent of concern. eTECH's Certificate of Analyses and site map are located in Appendix C.

TPH and BTEX concentrations were below laboratory detection levels and are not evaluated further.

Initial sampling, EM Survey, and field screening for EC showed that chloride within the upper 4-feet exceeded the 600 mg/kg closure limit throughout the EM Survey area where EM readings for EC exceeded 0.20 dS/m.

#### III. Remediation and Closure

#### 1. Excavation Protocol

Excavation of impacted material was determined by field screening with an EM-38 or a Hanna HI98304 DiST 4 handheld meter. EC readings >0.20 dS/m indicated that chloride concentrations are likely to exceed 600 mg/kg. With respect to the upper 4-feet, excavation continued until EC readings showed concentrations <0.20 dS/m within the area of concern – at which time a 5-point composite soil sample was collected for laboratory confirmation via EPA Method 200.1 or SM4500.

If soil confirmation sample results exceeded 600 mg/kg chloride at the excavation walls, the excavation wall was extended horizontally and resampled. Horizontal excavation continued until subsequent laboratory confirmation showed chloride below 600 mg/kg in the upper 4-feet.

Excavation depth was determined by 5-point composite sampling of the base. Vertical excavation continued until the base of the excavation exhibited chloride less than 600 mg/kg at 5.5 feet bgs or less. Below 4-feet, allowable chloride concentrations per Table 1 of 19.15.29 NMAC is <20,000 mg/kg.



Figure 4: Northern part of excavation viewing from southeast corner of N-S Trench area. The pipeline valve/riser is visible in photo background left edge. Date/Time: 2019-09-11 08:03:01. GPS: 32.4438972 N, 103.5728917 W.

Excavated soil was transported to Lea Land, Inc., Sundance Services, or R360 for proper disposal. Clean backfill soil was purchased from Merchant Livestock Company under a Surface Use Agreement.

#### 2. Remediation Activities

The excavation extent is irregular in shape and covers a surface area of approximately 7,500 square yards with a volume of approximately 8,000 cu. yds. As shown on Plate 11 the excavation consists of:

- The primary excavation extent with a depth ranging from 1.5-feet to 5-feet below ground surface.
- The RS-01 Trench Area with a depth of 9-feet below ground surface.
- The N-N Trench Area with a depth ranging from 1.5 to 5-feet below ground surface.
- The N-S Trench Area with a depth ranging from 2 to 4-feet below ground surface.

The soil sample centroids represent a sampling radius of approximately 38-feet (+/- 10 ft) on center.

Plate 12 shows the northern half sampling locations. Plate 13 shows the southern half sampling locations. The G-## (i.e. G-02) sample series and RS-06 compose the southern half extent.

Table 2 is a summary of analytical results showing final confirmation sampling of the excavation walls and bases.

- All sampled locations show chloride concentrations below 600 mg/kg in the upper 4 feet.
- All sampled locations from 5 to 9 ft were below 20,000 mg/kg with the highest area of concentration at the east wall (RS-01 E. Wall) which exhibits 4,720 mg/kg.
- At RS-01 base sample at 9 feet exhibited 688 mg/kg chloride.

Laboratory Certificate of Analyses are in Appendix D.

Figure 5, below, shows final restoration after seeding and surface contouring to blend with the surrounding topography.



Figure 5: Final reclamation. Photograph is taken near the northeast corner of the release extent viewing southwest. Date/Time: 2019-10-02 12:18:38. GPS: 32.4442639 N, 103.5727972 W

#### 3. Closure

As discussed above, the release has been reclaimed and restored to meet closure requirements per 19.15.29.12 and 19.15.29.13 NMAC. Therefore, we respectfully request closure of the regulatory file.

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

Sincerely,

R.T. Hicks Consultants, Ltd.

Andrew Parker

Sr. Env. Specialist

Copy: David Harwell (DHarwell@advanceenergypartners.com);

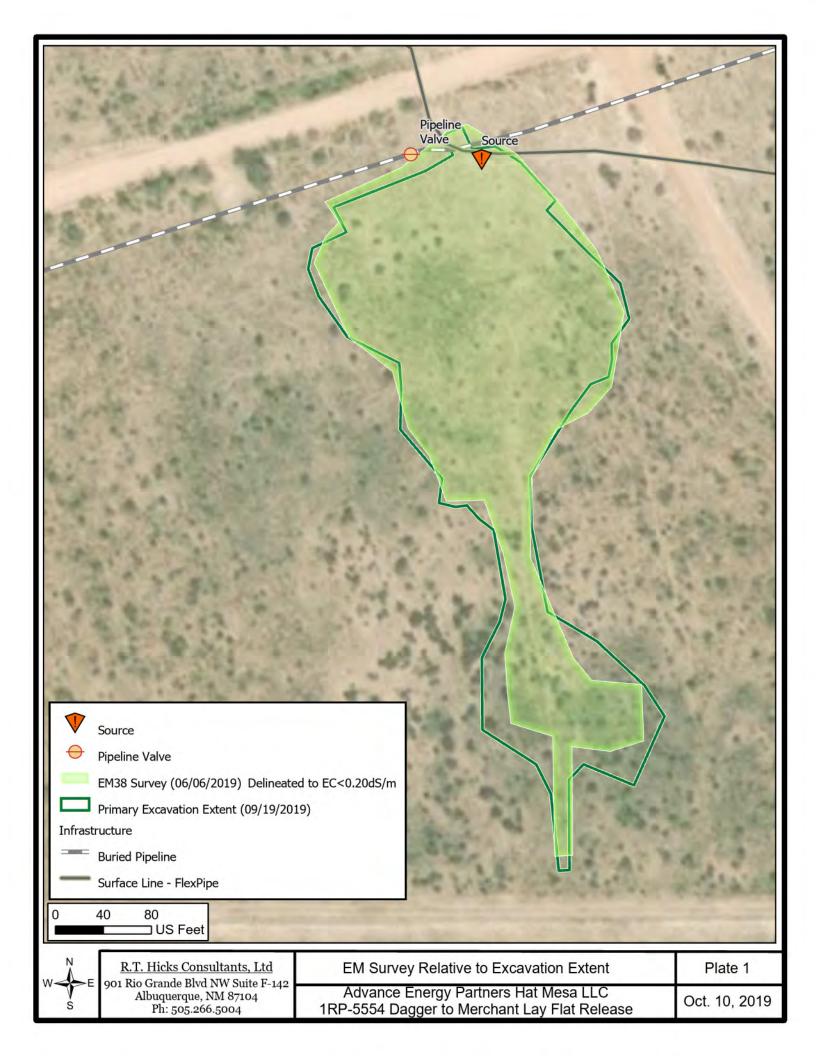
Advance Energy Partners Hat Mesa, LLC

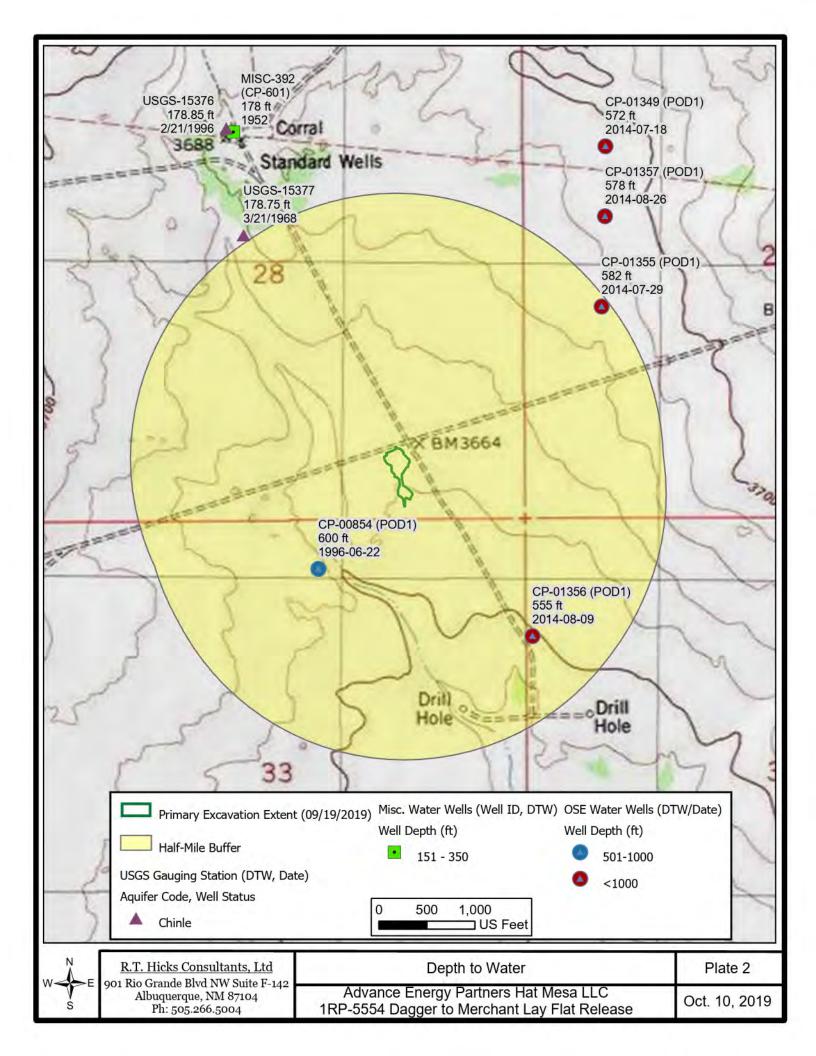
Clabe Pearson (clabe@merchantlivestock.com ); Merchant Livestock

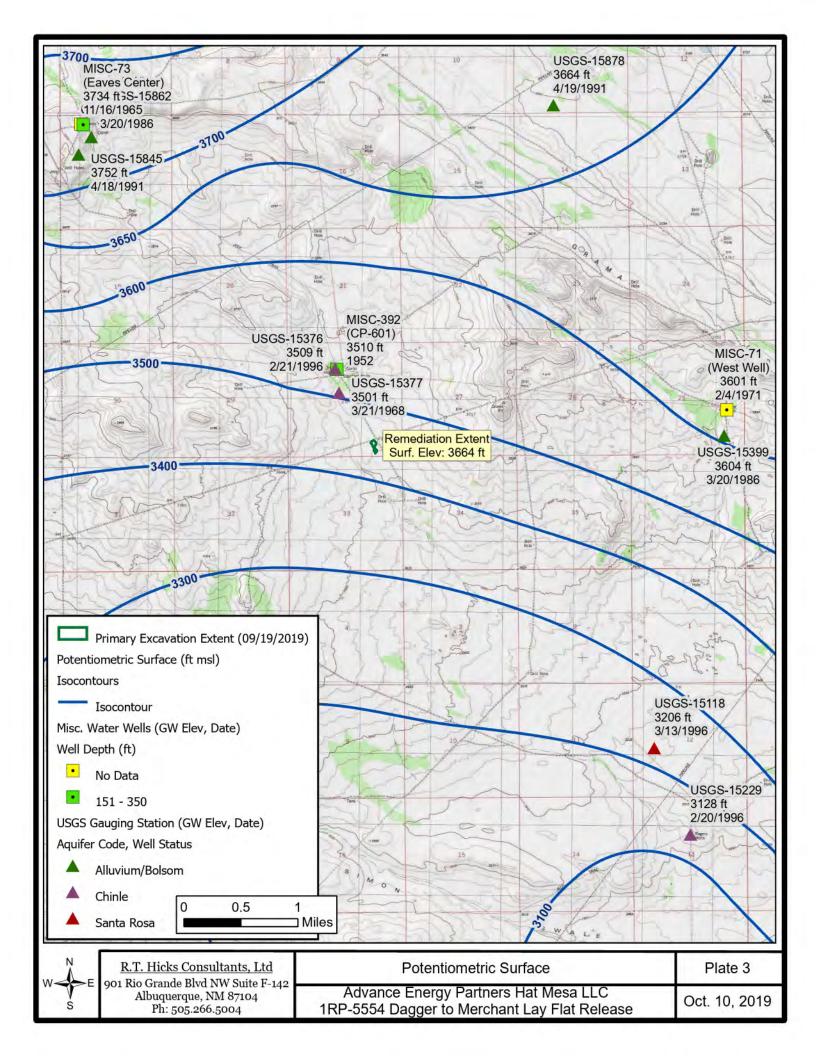
Brad Blevins (bblevins 5252@gmail.com); Merchant Livestock

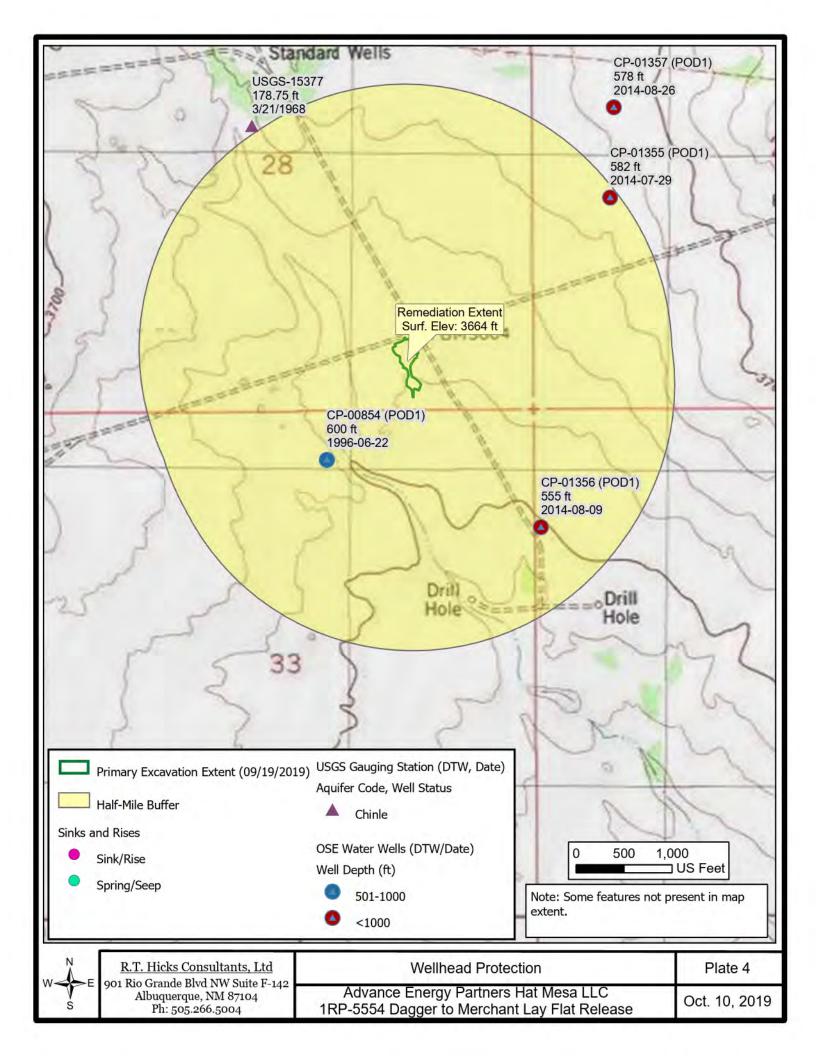
Brad Kingsley (bradckingsley@gmail.com); Kingsley Constructors Inc. Mark King (mking@goodnightmidstream.com); Goodnight Midstream Connolly, Leslie (lconnolly@hselaw.com); Harter Secrest & Emery LLP

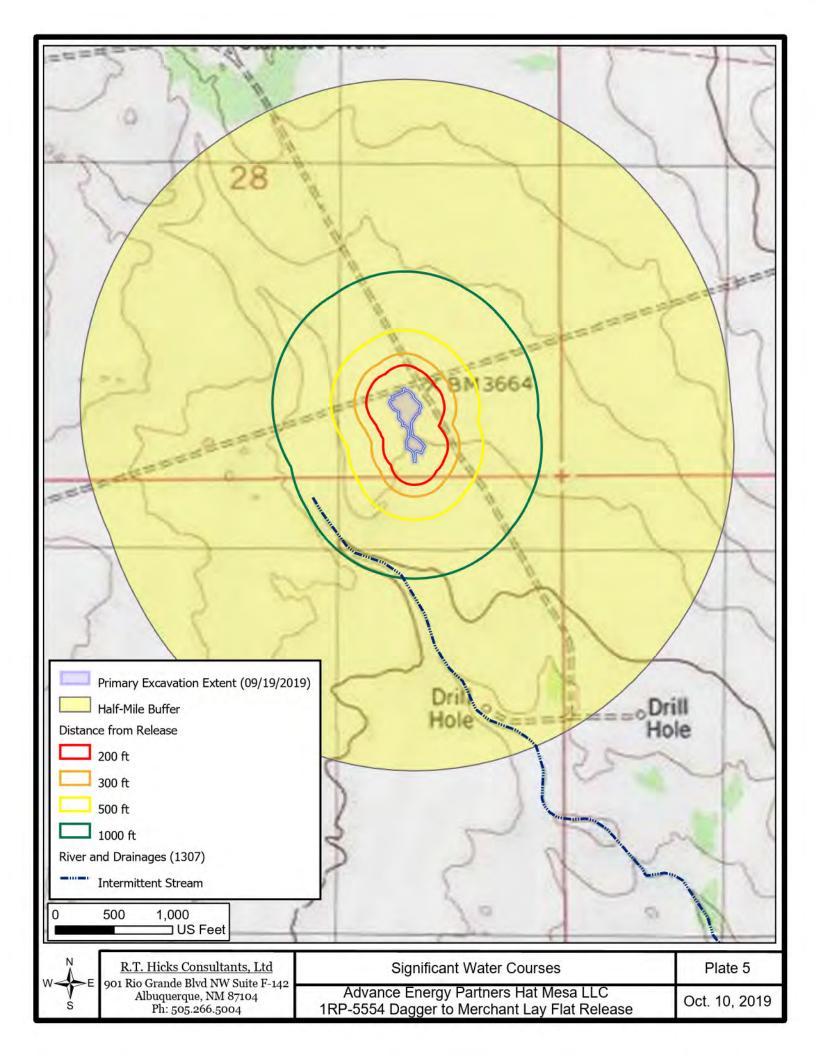
# **Plates**

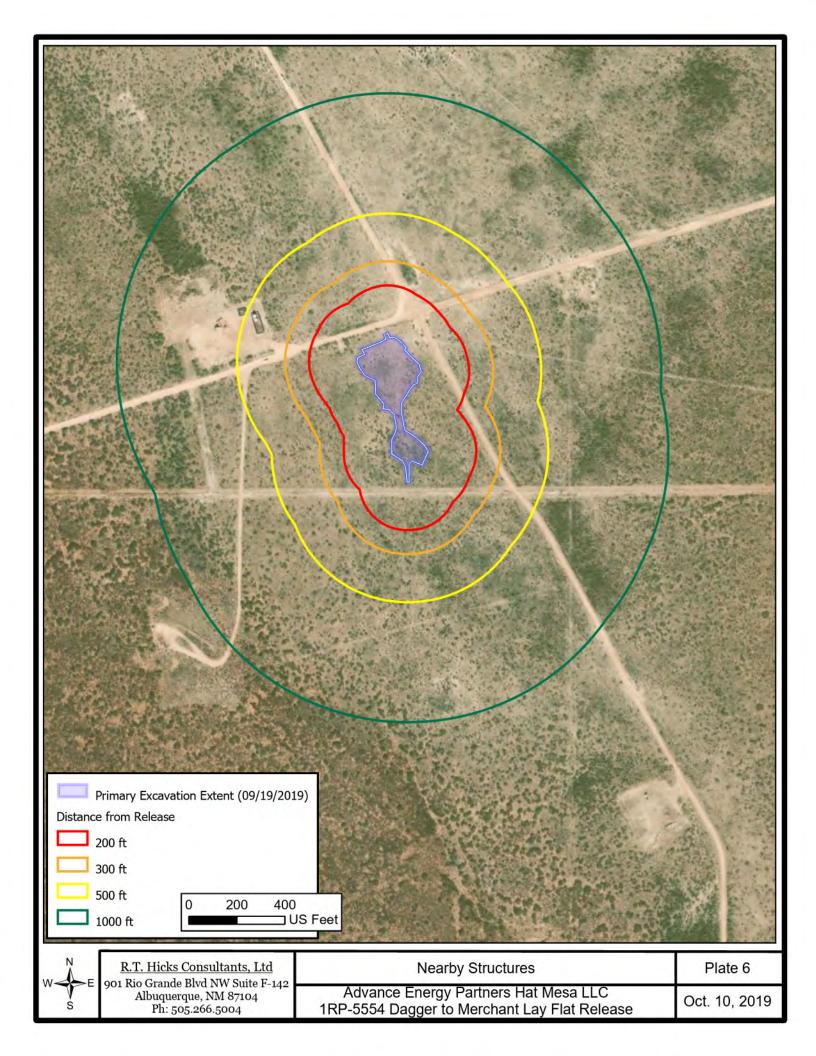


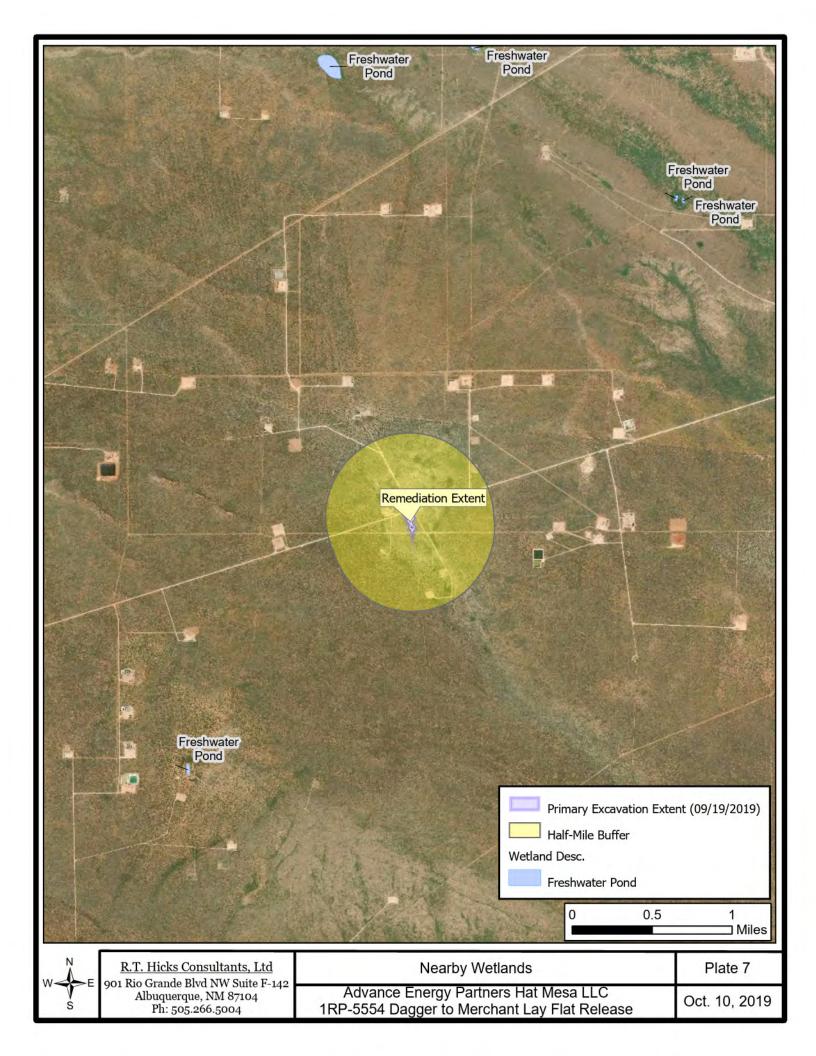


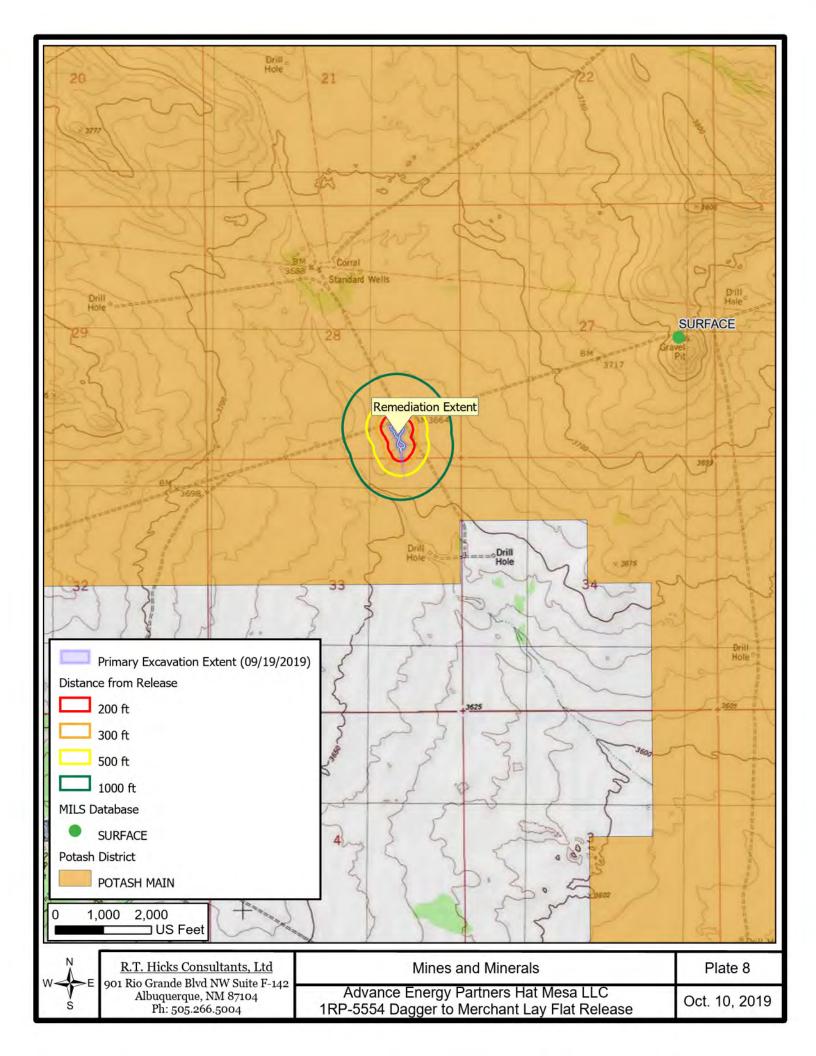


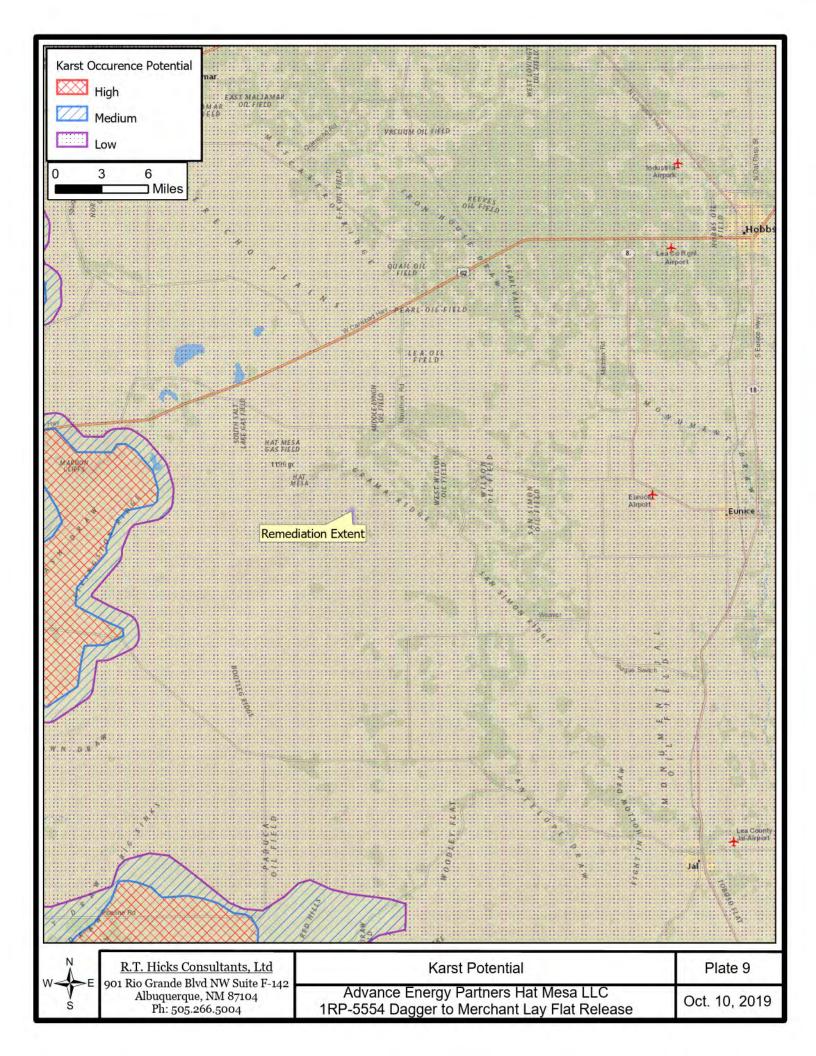


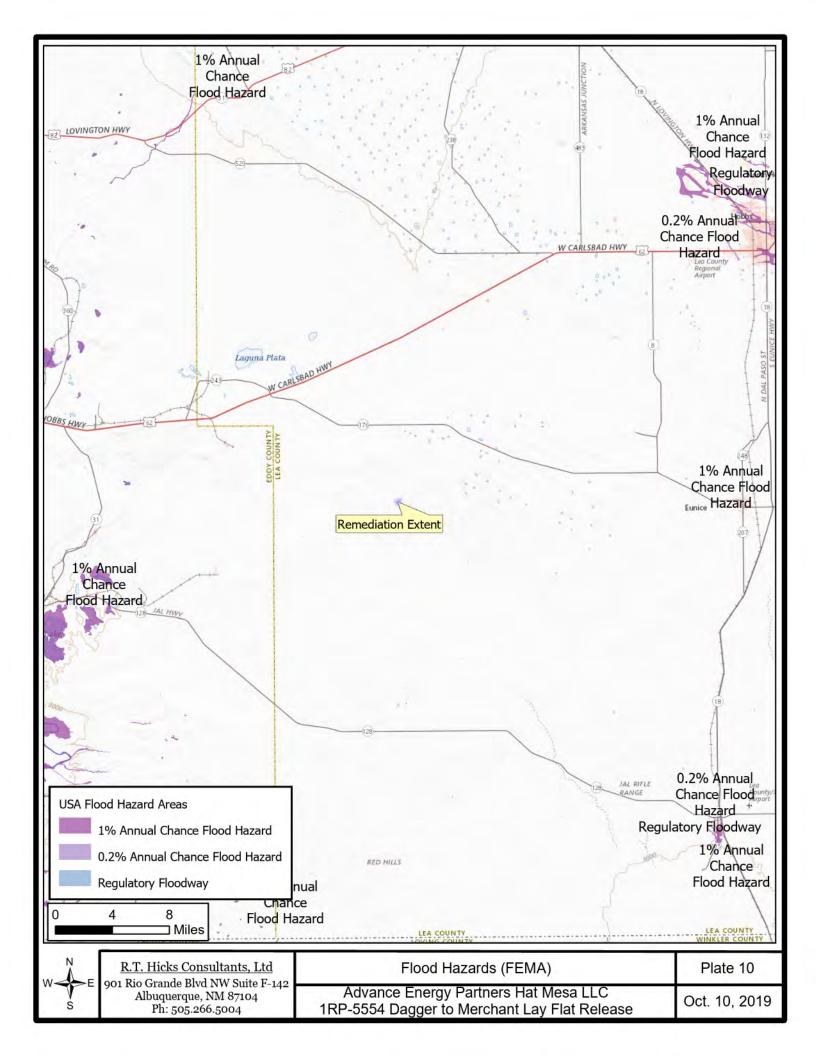


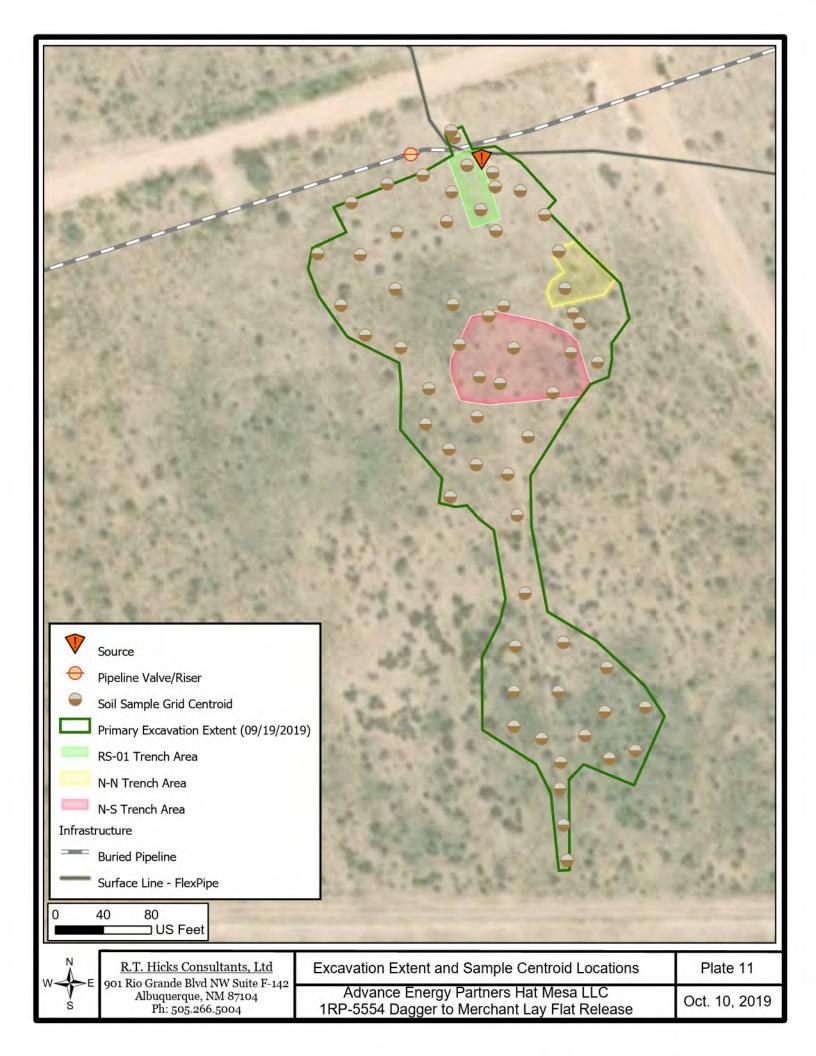


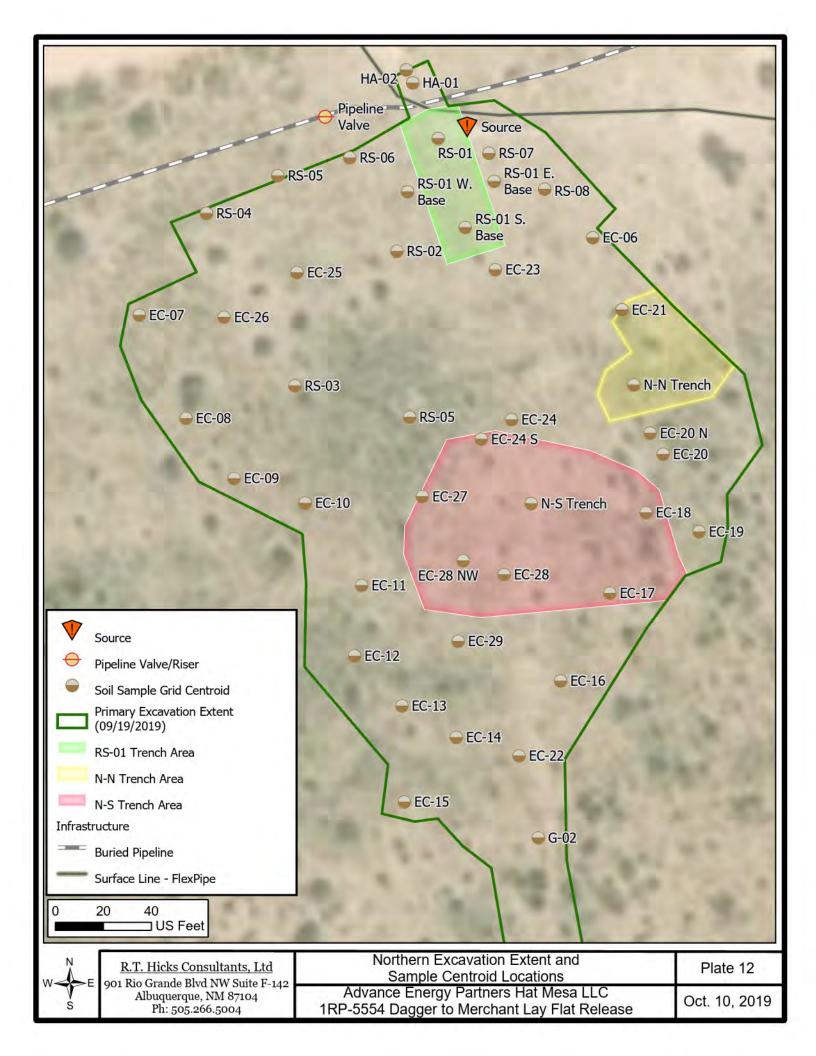


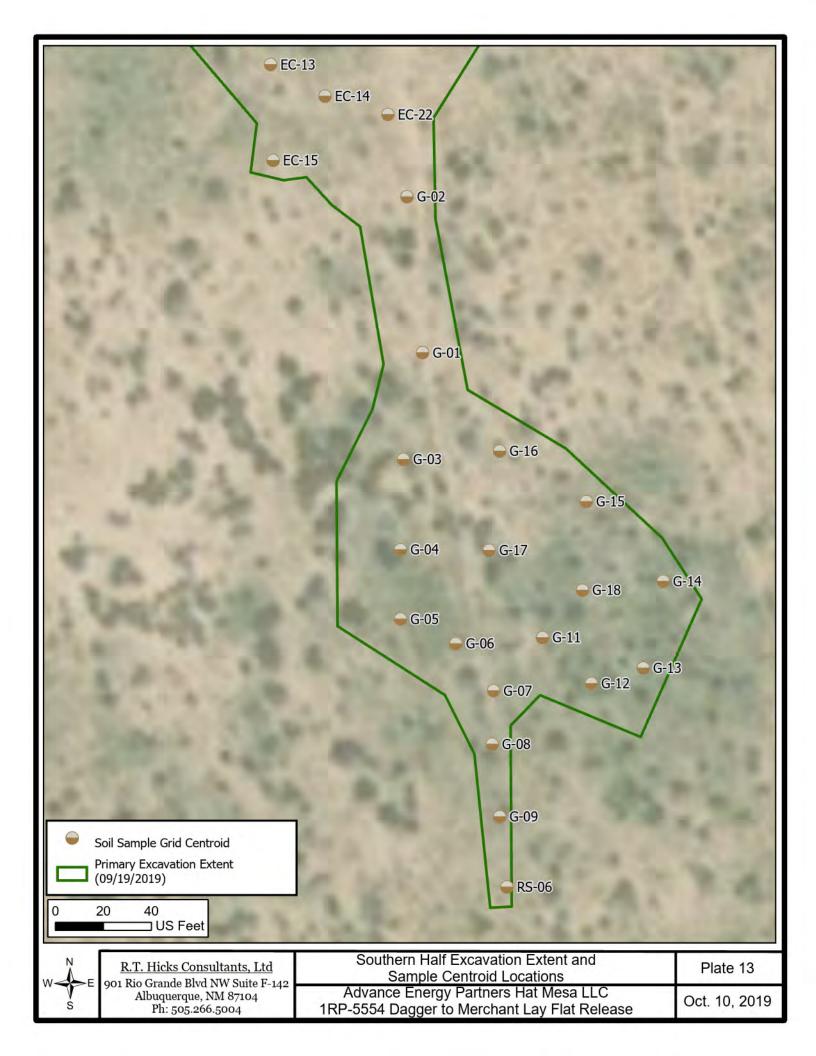












## **Tables**

October 10, 2019

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-00601	1952		223	178		
CP 00854	6/22/1996	755	890	600	Artesian	155
CP 01349 POD 1	7/18/2014	990	1188	572	Artesian	418
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

Sample ID	Date	Discrete Depth	Top Depth	Bottom Depth	EC (Hanna)	Chloride	Comments	Lab	Lab #
		(Feet)	(Feet)	(Feet)	dS/m	(PPM)		(Hall/Cardinal)	
NMOCD Limits									
0 - 4 feet & "not in-use"						600			
> 4 ft or "in-use" EC-06 Base	6/10/2019	4.0			0.1	20,000 32		Cardinal	H902018
EC-06 E. Wall	6/26/2019	4.0	0.0	4.0	0.1	32		Cardinal	H902201
EC-06 N. Wall	6/26/2019		0.0	4.0	0.24	432		Cardinal	H902201
EC-07 Base	6/10/2019	3.5			0.13	80		Cardinal	H902018
EC-07 N. Wall	6/10/2019		0.0	3.5	0.07	32		Cardinal	H902018
EC-08 Base	9/3/2019	2.0			0.1	32		Cardinal	H903036
EC-08 W. Wall	6/20/2019	4.0	0.0	2.0	0.09	32 48		Cardinal	H902137
EC-09 Base EC-09 W. Wall	9/3/2019 6/22/2019	4.0	0.0	4.0	0.11	16		Cardinal Cardinal	H903036 H902153
EC-10 Base	9/3/2019	4.0	0.0	4.0	0.08	32		Cardinal	H903036
EC-10 W. Wall	6/22/2019		0.0	4.0	0.1	48		Cardinal	H902153
EC-11 Base	9/3/2019	3.0			0.11	32		Cardinal	H903036
EC-11 S. Wall	6/26/2019		0.0	3.0	0.08	48		Cardinal	H902201
EC-12 Base	8/29/2019	5.0			0.18	32	Against Wall	Cardinal	H903017
EC-12 Base	9/4/2019	3.5	0.0	4.0	0.14	32	20ft from wall	Cardinal	H903062
EC-12 S. Wall EC-13 Base	8/29/2019 8/29/2019	5.0	0.0	4.0	0.14	32 32	Against Wall	Cardinal Cardinal	H903017
EC-13 Base	9/4/2019	3.5			0.14	64	20ft from wall	Cardinal	H903062
EC-13 S. Wall	8/29/2019	3.3	0.0	4.0	0.22	80	2010 HOIH Wall	Cardinal	H903017
EC-14 Base	9/4/2019	3.5				16		Cardinal	H903062
EC-14 S. Wall	8/26/2019		1.3	4.0	0.11	16	Upper 1.3 Ft Removed	Cardinal	H902938
EC-15 Base	8/26/2019	1.3			0.13	80		Cardinal	H902938
EC-15 E. Wall	8/26/2019		0.0	1.3	0.1	64		Cardinal	H902938
EC-15 S. Wall	8/26/2019		0.0	1.3	0.08	48		Cardinal	H902938
EC-15 W. Wall EC-16 Base	8/26/2019 8/28/2019	2.0	0.0	1.3	0.13 0.13	16 32		Cardinal Cardinal	H902938 H902992
EC-16 Base	8/28/2019	2.0	0.0	2.0	0.13	64		Cardinal	H902992
EC-17 Base	8/28/2019	2.0	0.0	2.0	0.25	176		Cardinal	H902992
EC-17 E. Wall	8/28/2019		0.0	2.0	0.25	384		Cardinal	H902992
EC-18 Base	9/3/2019	2.5			0.09	<16		Cardinal	H903036
EC-19 Base	8/28/2019	2.5			0.07	32		Cardinal	H902992
EC-19 E. Wall	8/28/2019		0.0	2.5	0.1	80		Cardinal	H902992
EC-20 Base	9/4/2019	2.0	0.0	2.0	0.09	<16		Cardinal	H903062
EC-20 E. Wall EC-20 Trench Base	9/4/2019 9/4/2019	4.5	0.0	2.0	0.09 0.09	128 16		Cardinal Cardinal	H903062 H903062
EC-20 Trench Wall	9/5/2019	4.5	2.0	4.0	0.03	128	Upper 2ft Removed	Cardinal	H903078
EC-20N	9/10/2019	5.0	2.0		0.09	32	eTech's F24	Cardinal	H903127
EC-21 Base	9/4/2019	2.5			0.08	<16		Cardinal	H903062
EC-21 E. Wall	9/4/2019		1.0	2.5	0.09	<16	Upper 1 Ft Removed	Cardinal	H903062
EC-21 N. Wall	9/4/2019		2.5	4.0	0.08	<16	Upper 2.5 Ft Removed	Cardinal	H903062
EC-21 W. Wall	9/4/2019	4.5	1.5	2.5	0.11	32	Upper 1.5 Ft Removed	Cardinal	H903062
EC-21 Trench EC-22 Base	9/4/2019 8/28/2019	4.5 2.0			0.16 0.13	<16 48		Cardinal Cardinal	H903062 H902992
EC-22 E. Wall	8/28/2019	2.0	0.0	2.0	0.13	<16		Cardinal	H902992
EC-23 Base	8/28/2019	3.5	0.0	2.0	0.24	176		Cardinal	H902992
EC-24 Base	8/28/2019	4.5				48		Cardinal	H902992
EC-24S	9/10/2019	5.0			0.08	32	eTech's F29	Cardinal	H903127
EC-25 Base	8/28/2019	4.5				64		Cardinal	H902992
EC-26 Base	8/28/2019	4.5				48		Cardinal	H902992
EC-27 Base	8/28/2019	4.5				208		Cardinal	H902992 H902992
EC-28 Base EC-28 NW	8/28/2019 9/10/2019	4.0 6.0			0.08	64 32	eTech's F26	Cardinal Cardinal	H902992
EC-29 Base	8/28/2019	4.0			0.00	16	CIECIISTZU	Cardinal	H902992
G-01 Base	6/25/2019	2.0				16		Cardinal	H902173
G-01 E. Wall	6/25/2019		0.0	2.0		32		Cardinal	H902173
G-01 W. Wall	6/25/2019		0.0	2.0		32		Cardinal	H902173
G-02 Base	6/25/2019	2.0				32		Cardinal	H902173
G-02 E. Wall	6/18/2019		0.0	1.0		64		Cardinal	H902108
G-02 W. Wall G-03 Base	6/18/2019	3.5	0.0	1.0		48 <16		Cardinal Cardinal	H902108 H902153
G-03 W. Wall	6/22/2019	3.3	0.0	3.0		32		Cardinal	H902153
G-04 Base	6/22/2019	3.0	0.0	3.5		32		Cardinal	H902153
G-04 W. Wall	6/18/2019		0.0	3.0		32		Cardinal	H902108
C OF Bass	6/18/2019	2.0				48		Cardinal	H902108
G-05 Base			0.0	2.0		<16		Cardinal	H902108
G-05 S. Wall	6/18/2019		0.0	2.0					
G-05 S. Wall G-06 Base	6/18/2019		0.0	2.5		176		Cardinal	H902108
G-05 S. Wall		2.5							

Commis ID	Doto	Discusto Double	Ton Donah	Dattom Douth	FC (Hanna)	Chlavida	Commonto	Lab	106#
Sample ID	Date	(Feet)	(Feet)	Bottom Depth (Feet)	EC (Hanna) dS/m	Chloride (PPM)	Comments	Lab (Hall/Cardinal)	Lab #
NMOCD Limits		(1001)	(1000)	(1 661)	us/iii	(1 1 101)		(Hally car amaly	
0 - 4 feet & "not in-use"						600			
> 4 ft or "in-use"						20,000			
G-07 W. Wall	6/18/2019		0.0	2.5		<16		Cardinal	H902108
G-08 Base	6/18/2019	2.5				16		Cardinal	H902108
G-08 E. Wall	6/22/2019		0.0	2.5		<16		Cardinal	H902153
G-08 W. Wall	6/18/2019		0.0	2.5		<16		Cardinal	H902108
G-09 Base	6/18/2019	2.0	0.0	2.0		<16		Cardinal	H902108
G-09 E. Wall G-09 W. Wall	6/18/2019 6/18/2019		0.0	2.0		<16 <16		Cardinal Cardinal	H902108 H902108
G-10	0/18/2019		0.0	2.0		<10	Does Not Exist	Cardinal	H902108
G-11 Base	6/18/2019	2.0				32	DOCS NOT EXIST	Cardinal	H902108
G-11 S. Wall	6/18/2019	2.0	0.0	2.0		48		Cardinal	H902108
G-12 Base	6/19/2019	2.0				32		Cardinal	H902119
G-12 S. Wall	6/19/2019		0.0	2.0		16		Cardinal	H902119
G-12 W. Wall	6/19/2019		0.0	2.0		208		Cardinal	H902119
G-13 Base	6/19/2019	2.5				48		Cardinal	H902119
G-13 E. Wall	6/19/2019		0.0	2.5		16		Cardinal	H902119
G-13 S. Wall	6/19/2019		0.0	2.5		16		Cardinal	H902119
G-14 Base	6/22/2019	4.0				16		Cardinal	H902153
G-14 E. Wall	6/19/2019		0.0	2.0		16		Cardinal	H902119
G-14 N. Wall	6/22/2019	2.0	0.0	4.0		<16		Cardinal	H902153
G-15 Base G-15 N. Wall	6/19/2019	3.0	0.0	3.0		176 80		Cardinal Cardinal	H902119 H902119
G-15 N. Wall	6/19/2019 6/22/2019	4.0	0.0	3.0		48		Cardinal	H902119
G-16 N. Wall	6/22/2019	4.0	0.0	4.0		<16		Cardinal	H902153
G-17 Base	6/19/2019	3.0	0.0	4.0		208		Cardinal	H902119
G-18 Base	6/19/2019	2.5				32		Cardinal	H902119
HA-01 E. Wall	9/19/2019		0.0	3.5	0.12	160		Cardinal	H903256
HA-01 W. Wall	9/19/2019		0.0	3.5	0.2	144		Cardinal	H903256
HA-01 Base	9/19/2019	3.5			0.17	160		Cardinal	H903256
HA-02	6/26/2019		0.0	2.0	0.17	160	Hand Auger Sample	Cardinal	H902201
HA-02	6/26/2019		2.0	4.0	0.09	48	Hand Auger Sample	Cardinal	H902201
N-N Trench Base	9/4/2019	5			0.15	16		Cardinal	H903062
N-N Trench E. Wall	9/4/2019		1.5	4	0.11	<16		Cardinal	H903062
N-N Trench N. Wall	9/4/2019		2.5	4	0.14	16		Cardinal	H903062
N-N Trench S. Wall N-N Trench W. Wall	9/4/2019 9/4/2019		1.5	4	0.12	64 32		Cardinal	H903062 H903062
N-S Trench Base	8/28/2019	4	2	4	0.12 0.16	48		Cardinal Cardinal	H903062
N-S Trench E. Wall	8/27/2019	4	0	3	0.09	32		Cardinal	H902960
N-S Trench N. Wall	8/28/2019		2	4	0.25	272	Upper 2ft Removed	Cardinal	H902992
N-S Trench S. Wall	8/28/2019		2	4	0.12	48	Upper 2ft Removed	Cardinal	H902992
N-S Trench W. Wall	8/28/2019		2	4	0.15	48	Upper 2ft Removed	Cardinal	H902992
RS-01 E. Wall	6/20/2019		5.0	8.0		4720	Select Release	Cardinal	H902137
RS-01 N. Wall	6/20/2019		5.0	8.0		240	Select Release	Cardinal	H902137
RS-01 Trench Base	6/27/2019	9.0			0.35	688		Cardinal	H902229
RS-01 Trench Base	8/28/2019	9.0	_	_	0.45	672	Resampled	Cardinal	H902992
RS-01 W. Wall	6/20/2019	2.2	5.0	8.0	0.15	400	Select Release	Cardinal	H902137
RS-01 S. Base	9/10/2019	9.0			0.15	112	eTech's F37	Cardinal	H903127
RS-01 W. Base	9/10/2019	6.5			0.2	176		Cardinal	H903127
RS-01 E. Base RS-01 S. Wall	9/10/2019 9/10/2019	6.5 7.0			0.22 0.25	240 192		Cardinal Cardinal	H903127 H903127
RS-02 Base	6/13/2019	3.0			0.23	64		Cardinal	H902066
RS-03 Base	6/13/2019	3.0				32		Cardinal	H902066
RS-04 Base	6/13/2019	5.0				80		Cardinal	H902066
RS-04 N. Wall	6/20/2019		0.0	4.0	0.15	80		Cardinal	H902137
RS-04 W. Wall	6/20/2019		0.0	4.0	0.04	16		Cardinal	H902137
RS-05 Base	6/13/2019	3.5				32		Cardinal	H902066
RS-05 N. Wall	6/20/2019		0.0	4.0	0.1	32		Cardinal	H902137
RS-06 Base	6/13/2019	1.5			0.05	<16		Cardinal	H902108
RS-06 E. Wall	6/18/2019		0.0	1.5		<16		Cardinal	H902108
RS-06 N. Wall	6/20/2019		0.0	4.0	0.25	192		Cardinal	H902137
RS-06 S. Wall	6/13/2019		0.0	1.5	0.05	<16		Cardinal	H902066
RS-06 W. Wall	6/18/2019		0.0	1.5	0.15	<16		Cardinal	H902108
RS-07 N. Wall RS-08 N. Wall	6/26/2019		0.0	4.0	0.15	192 64		Cardinal Cardinal	H902201 H902201
NO-00 IV. Wdll	6/26/2019		0.0	4.0	0.1	04		Cardinal	LI305501

# Appendix A OSE Well Logs

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104 5F

CAPITAN BASIN		is ark 20. I
DASIN NAME		
claration No. CP-601 Date receiv	ed April 17	, 1879 ENGINEE SANTA FE, N.A
STATEMENT		TOWN A FE, N.A
Value of Declarant THE MERCHANT LIVESTOCK COM		
Mailing Address P.O. Box 548 Carlsbad County of Eddy , State of		<u> </u>
Source of water supply shallow	New Mexic	
(artesian or shallow Describe well location under one of the following subheadings:	water aquifer)	
114 NE 14 NW 14 of Sec. 28	Twp21S Rge	<b>33-E</b> N.M.P.M., in
c. X = feet, Y = feet, N. M. Co	ordinate System	Zone
in theOn land owned by	<del> </del>	Grant.
Description of well: date drilled 1952 driller		
outside diameter of casing 6 5/8 inches; original capacity	gal. per min.; pres	ent capacity3
gal. per min.; pumping liftfeet; static water level_ <u>178</u> fe	eet (above) (below) lar	d surface;
make and type of pump		
make, type, horsepower, etc., of power plant		
Fractitional or percentage interest claimed in well		
Quantity of water appropriated and beneficially used(axix to ext		re feet per annum)
for stock water		purposes.
	Acres rigated	Owner
	rigated	Owner  [erchant Livesto
	only The N	lerchant Livesto
	only The N	lerchant Livesto
	only The N	lerchant Livesto
	only The N	lerchant Livesto
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on revers	lerchant Livesto
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on reverse year	lerchant Livesto
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse year	lerchant Livesto
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on reverse year	and cace that time
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on reverse year	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use month day has been used fully and continuously on all of the above described last follows:	shown on plat on reverse year	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use month day has been used fully and continuously on all of the above described last follows:	shown on plat on revers  1952  year  ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on reverse 1952 year ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be Water was first applied to beneficial use	shown on plat on reverse 1952 year ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use month day has been used fully and continuously on all of the above described last follows:	shown on plat on reverse 1952 year ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use month day has been used fully and continuously on all of the above described last follows:  Additional statements or explanations	shown on plat on reverse 1952 year ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use month day has been used fully and continuously on all of the above described last follows:  Additional statements or explanations	shown on plat on reverse 1952 year ands or for the above of	and cace that time
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse 1952 year ands or for the above of the shown	and cace that time esclibed pureses except
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse 1952 year ands or for the above of the above	duly sworn upon my oath, the instructions on the re-
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse 1952 year ands or for the above of the above	duly sworn upon my oath, the instructions on the re- right, that I have carefully
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse 1952  year ands or for the above of the above of the above of the above of the alid underground water true to the best of my	duly sworn upon my oath, the instructions on the re- right, that I have carefully knowledge and belief.
(Note: location of well and acreage actually irrigated must be  Water was first applied to beneficial use	shown on plat on reverse 1952  year ands or for the above of the above of the above of the above of the alid underground water true to the best of my	duly sworn upon my oath, the instructions on the re- right, that I have carefully
(Note: location of well and acreage actually irrigated must be later was first applied to beneficial use month day as been used fully and continuously on all of the above described as follows:  dditional statements or explanations name of well = Standard  J. D. Merchant, Jr. President epose and say that the above is a full many that it is statement prepareties side of this form and submarfed in the form and submarfed therein and that the same are sad each and all of the items fortained therein and that the same are	shown on plat on reverse 1952  year ands or for the above of the above of the above of the above of the alid underground water true to the best of my	duly sworn upon my oath, the instructions on the retright, that I have carefully knowledge and belief.

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UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROYAL OR REJECTION OF THE CLAIM.

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							*\ *,

, Range

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

Section (s) \_\_\_\_\_, Township \_\_\_

#### 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.

0-760

Secs. 1-3. Complete all blanks.

- Sec. 4. Fill out all blanks applicable as fully as possible.
- Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.
- Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 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.

\*/0 APA 20 PM 3 00

April 17, 1979

OF THE ENGINEER OFFICE 1. 33 79, N.M. 8**1**501

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 Files:

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



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00854 POD1

1 1 2 33 21S 33E

633879 3590223

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY" (LD)

Drill Start Date: 06/22/1996 Drill Finish Date: 06/22/1996 Plug Date:

Log File Date: PCW Rcv Date: 10/17/2013 Shallow 07/11/1996 Source: **Pump Type:** Pipe Discharge Size: Estimated Yield: 100 GPM **SUBMER** 2.875 **Depth Well:** Casing Size: 6.63 950 feet **Depth Water:** 600 feet

Water Bearing Stratifications: Top Bottom Description

755 805 Sandstone/Gravel/Conglomerate860 890 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

760 950

Meter Number:8514Meter Make:BLANCETTMeter Serial Number:040711711Meter Multiplier:1.0000Number of Dials:7Meter Type:Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

#### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
03/15/2004	2004	121	Α	jw	0
03/29/2004	2004	69871	Α	jw	0
05/17/2004	2004	8758	Α	jw	2.651
06/11/2004	2004	79641	Α	jw	2.998
01/27/2012	2012	18062553	Α	RPT Initial reading	0
03/01/2012	2012	19039807	Α	RPT	2.999
05/29/2013	2013	179696	Α	RPT initial reading	0
10/07/2013	2013	460774	Α	RPT Qtr IV 2013	36.229
11/11/2013	2013	540326	Α	RPT	10.254
01/01/2014	2013	614283	Α	RPT	9.533
10/01/2014	2014	1122654	Α	RPT	65.526
01/01/2015	2014	1212343	Α	RPT	11.560
03/31/2015	2015	1307063	Α	RPT	12.209
06/27/2015	2015	1369556	Α	RPT	8.055

#### **Meter Readings (in Acre-Feet)**

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



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

Υ X

CP 01349 POD1

27 21S 33E

3591576 635304

**Driller License: 421** 

**Driller Company:** GLENN'S WATER WELL SERVICE

GLENN, CLARK A. "CORKY" **Driller Name:** 

08/04/2014

7.00

Drill Start Date: 07/12/2014

**Drill Finish Date:** 

07/18/2014

Plug Date:

Source: Artesian

Log File Date: **Pump Type:** 

**PCW Rcv Date:** 

Depth Well:

**Casing Size:** 

Pipe Discharge Size:

1188 feet

**Estimated Yield: Depth Water:** 

572 feet

Water Bearing Stratifications:

**Top Bottom Description** 

1188

1188 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

990

721

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

POD SUMMARY - CP 01349 POD1 3/5/19 2:09 PM Page 1 of 1

# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

LOCATION

STATE ENGINEER OFFICE

2014 SEP 10 PM 2: 15

PAGE 1 OF 2

			ELL NUMBER) andard South) **	* Revised 09/09/14 * * *		OSE FILE NU	MBER(S)			
	1	VER NAME		nevised 03/03/14		PHONE (OPT)	ONAL			
	· [	,	າ's Water Well Serv	vice, Inc.		575-398-2424				
.   .			IG ADDRESS	· · · · · · · · · · · · · · · · · · ·		ĊITY		STATE		ZIP
	P. O. Box					Tatum		NM	8826	
	WELL		DEGREE		OS	İ	<u> </u>			
	LOCATION	ON LA	ATITUDE 32	26 54.8	N	* ACCURACY	REQUIRED: ONE TEN	NTH OF A SE	ECOND	
	(FROM G	PS)	DNGITUDE 103	33 58.3	· w	* DATUM RE	QUIRED: WGS 84			
	DESCRIPTIO			T ADDRESS AND COMMON LANDMARKS - PL	SS (SECTION, T	OWNSHJIP, RANG	GE) WHERE AVAILABLE			· · · · · · · · · · · · · · · · · · ·
	NE1/4NV	W1/4SW1	1/4 Section 27, To	wnship 21 South, Range 33 Eas	t on Merc	:hants Lives	tock Land			
	LICENSE N	UMBER	NAME OF LICENSED	DRILLER	<del></del>		NAME OF WELL DI	RILLING CO	MPANY	· · · · · · ·
	.WD 421		Corky Glenn				Glenn's Water	Well Ser	vice, Inc.	
	DRILLING S 07/22/14		DRILLING ENDED 07/29/14	DEPTH OF COMPLETED WELL (FT) 1,192'	BORE HO 1,192'	LE DEPTH (FT)	DEPTH WATER FIF 925'	RST ENCOU	NTERED (FT)	)
	COMPLETE	D WELL IS:	• ARTESIAN	C dry hole C shallow (unc	ONFINED)		STATIC WATER LE 582'	VEL IN COM	APLETED WE	ELL (FT)
	DRILLING I	FLUID:	€ AIR	C MUD ADDITIVES - SPI	ECIFY:	<del></del>	1			*****
	DRILLING I	METHOD:	ROTARY	C HAMMER C CABLE TOOL	С отн	R - SPECIFY:				
	DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR		AND IC	CASING	CASIN	IG WALL	1 010
	FROM	ТО	DIAM	GRADE		ASING NECTION	INSIDE DIAM.		KNESS	SLO:
			(inches)	(include each casing string, and note sections of screen)	T	YPE	(inches)	(in	iches)	(inche:
	·0'	40'	20"	16"	None		15 1/2"	.250		
- 1	0'	757'	14 3/4"	9 5/8"	Thread	& Collar	8.921"	36 lbs	) <b>,</b>	none
·	690,	1,192'	8 3/4"	7" (502.14' Total)	Thread	& Collar	6.366"	23 lbs	j.	1/8"
ı				317.96 perforated						
				on bottom of liner						
										<u> </u>
				-						
								-		
ᆜ							<u> </u>	<u> </u>		<u> </u>
		(feet bgl)	BORE HOLE DIAM, (inches)	LIST ANNULAR SEAL MA			AMOUNT		METHO	
	FROM	TO	` ´	GRAVEL PACK SIZE-RANG	EBI INIE	KYAL	(cubic feet)		PLACEN	JEIN I
	0'	40'	20"	Cemented	<i>t</i>		2 yds.		p Pour	<del></del>
	0	757'	14 3/4"	Float and shoe cemented to	surrace		962	Cii	rculated	
ļ					,	- Andrews - Andr				
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ŀ									•	
1		<u> </u>								

	DEPIH (I	feet bgl)	#WWW.	COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
0	)	4'	4'	Sand	CYGN	
4	4'	28'	24'	Caliche	CY ON	
2	28'	120'	92'	Sand & Clay	C Y © N	
1	120'	260'	140'	Red Clay	C Y © N	
2	260'	757'	497'	Red & Brown Shale, and Clay (some blue)	$C_A \bullet_N$	
7	757'	815'	58'	Red & Brown Shale	CY ON	
8	B15'	840'	25'	Blue Clay & Shale	$C_A                                    $	
8	840'	925'	85'	Red and Brown Shale (some sandrock)	C Y O N	
9	925'	975'	50'	Watersand and Gravel	© Y C N	
9	975'	1,185'	210'	Watersand (brown sandrock)	⊙ Y O N	
1	1,185'	1,192'	7'.	Red Shale	C Y © N	
					CY © N	
					CY © N	
					CY ON	
					$C_A C_N$	
					$C^{Y}C^{N}$	
-		,			$O^{Y}$ , $O^{N}$	
					$C^{Y}C^{N}$	
					$O^{Y} O^{N}$	
					1 X Z Z X Z	
					$O^{Y} O^{N}$	
					$\begin{array}{c c} C & C & N \\ \hline C & C & N \\ \hline C & C & N \end{array}$	
	METHOD U	JSED TO ES	STIMATE YIELI	D OF WATER-BEARING STRATA: PUMP TO		
	METHOD U				$O^{Y} O^{N}$	
<u></u>		T C	BAILER C		O Y C N DTAL ESTIMATED //ELL YIELD (gpm):	
v	AIR LIF	T C TEST	BAILER C RESULTS - ATT T TIME, END TI	OTHER – SPECIFY:  WATER A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU	O Y C N DTAL ESTIMATED //ELL YIELD (gpm):	
v	AIR LIF	T C TEST	BAILER C	OTHER – SPECIFY:  WATER A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU	O Y C N DTAL ESTIMATED //ELL YIELD (gpm):	
V	AIR LIF	T C TEST STAR NEOUS INI drilled wi	BAILER C RESULTS - ATT T TIME, END TI FORMATION:	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"	OY CN DTAL ESTIMATED VELL YIELD (gpm):	
V	AIR LIF	T C TEST STAR NEOUS INI drilled wi	BAILER C RESULTS - ATT T TIME, END TI FORMATION:	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"	OY CN DTAL ESTIMATED VELL YIELD (gpm):	
V M	AIR LIF WELL TES MISCELLA 0' to 757' 757' to 11	T C TEST STAR NEOUS INI drilled wi	BAILER C RESULTS - ATT T TIME, END TI FORMATION: ith mud. d with air and	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"  foam.	OY CN DTAL ESTIMATED /ELL YIELD (gpm):  BDING DISCHARGE ITHE TESTING PERIO	DD.
V M	AIR LIF WELL TES MISCELLA 0' to 757' 757' to 11	T C TEST STAR NEOUS INI drilled wi	BAILER C RESULTS - ATT T TIME, END TI FORMATION: ith mud. d with air and	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"	OY CN DTAL ESTIMATED /ELL YIELD (gpm):  BDING DISCHARGE ITHE TESTING PERIO	DD.
V M	AIR LIF WELL TES MISCELLA 0' to 757' 757' to 11	T C TEST STAR NEOUS INI drilled wi	BAILER C RESULTS - ATT T TIME, END TI FORMATION: ith mud. d with air and	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"  foam.	OY CN DTAL ESTIMATED /ELL YIELD (gpm):  BDING DISCHARGE ITHE TESTING PERIO	DD.
M C 7	WELL TES  MISCELLA  O' to 757'  757' to 11  PRINT NAM	T TEST STAR NEOUS INI drilled wi 192' drilled ME(S) OF D  RESIGNED I RECORD O	RESULTS - ATT T TIME, END TI FORMATION: ith mud. d with air and RILL RIG SUPE	OTHER – SPECIFY:  "ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER"  foam.	THE FOREGOING IS	HAN LICENSEE
M C 7	WELL TES  MISCELLA  O' to 757'  757' to 11  PRINT NAM	T TEST STAR NEOUS INI drilled wi 192' drilled ME(S) OF D  RESIGNED I RECORD O	RESULTS - ATT T TIME, END TI FORMATION: ith mud. d with air and RILL RIG SUPE	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO	THE FOREGOING IS	HAN LICENSEE:
M C 7	WELL TES  MISCELLA  O' to 757'  757' to 11  PRINT NAM	T TEST STAR NEOUS INI drilled wi 192' drilled ME(S) OF D  RESIGNED I RECORD O	RESULTS - ATT T TIME, END TI FORMATION:  ith mud. d with air and  RILL RIG SUPE  HEREBY CERTIL OF THE ABOVE IS  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 RECO	THE FOREGOING IS	HAN LICENSEE:

 FOR OSE INTERNAL USE
 WR-20 WELL RECORD & LOG (Version 06/08/2012)

 FILE NUMBER CP - 1355
 POD NUMBER
 TRN NUMBER
 5 4945 O

 LOCATION
 2/5.33 € .27.3/2
 PAGE 2 OF 2



LOCATION

well own Merchan	ER NAME(S) <b>ts Livest</b> ( ER MAILING	ock/Glenn's Wate	r Well Service, Inc			PHONE (OPTI	ONAL			3	<b>-</b> -:
Merchan WELL OWN P.O. Box WELL LOCATIO	ts Livesto	ock/Glenn's Wate	r Well Service, Inc			DUONE (OPE)	CONTAIN				
WELL OWN P.O. BOX WELL LOCATIO	ER MAILING		r weii Service, Inc		(575)398-2			(C)	Ξ'n	1	
P.O. Box WELL LOCATIO		ADDRESS	VELL OWNER MAILING ADDRESS								7
LOCATIO						Tatum NM © 88267.					Ē
LOCATIO		DEGREE	S MINUTES	SECONI	)S				The state of the s		)
(FROM G	ON LAT	птире 32	26	<b>54.8</b>	N	* ACCURACY	' REQUIRED: ONE TEN	TH OF A	SECOND	遺异	;
	PS). LO	NGITUDE 103	33	58.3	W	* DATUM RE	QUIRED: WGS 84		Ų,	27	<u> </u>
DESCRIPTIO	7. *		T ADDRESS AND COMMO	N LANDMARKS - PL	SS (SECTION, T	L. OWNSHJIP, RANC	SE) WHERE AVAILABLE				
NE/NW/S	SW Sec. 2	7, T21S, R33E on	Merchants Livesto	ock Land							
	JMBER		DRILLER	manuscus no non transcription of the	······································	V 18/14/4/4					
WD 421		Corky Glenn					Glenn's Water \	Nell Se	rvice,	Inc.	
DRILLING S 7/29/14		DRILLING ENDED 8/2/14	DEPTH OF COMPLETED 1192'	D WELL (FT)	BORE HO!	LE DEPTH (FT)	DEPTH WATER FIR. 925'	ST ENCOU	JNTERE	D (FT)	
COMPLETE	D WELL IS:	• ARTESIAN	C DRYHOLE C	SHALLOW (UNC	ONFINED)		STATIC WATER LEV 582'	VEL IN CO	MPLET	ED WEI	L (FT)
DRILLING F	LUID:	C AIR	Смир	ADDITIVES - SPI	ECIFY:						
<del></del> _		© ROTARY	C HAMMER C	CABLE TOOL		R - SPECIFY:					
DEPTH	(feet bgl)	PODE HOLE	CASING MATER	IAL AND/OR			CACDIO	<u> </u>			
FROM TO DIAM (inches)		GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE		01		THICKNESS (inches)		SLOT SIZE (inches	
0'	40'	20"	16"		None		15 1/2"	.250			
0'	757'	14 3/4"	9 5/8"		Thread	and Collar	.352		os.		none
757'	1192'	8 3/4'	7"		Thread	and Collar	6.5"	23 lb	S.		1/8"
				·							
y m see S. V to see a r. Seeling			B	. to			, , , , , , , , , , , , , , , , , , ,	le den a C. C. o mondant l'illian a de	provide and a		
		BORE HOLE DIAM (inches)					AMOUNT				
				CIC SIZEMINO	EDI MIE	NYAL	` '				D111
		ł	1	Composted to	Curfoco		ł.				
<u> </u>	/5/	14 3/4	Float and Snoe	Cemented to	<b>Surrace</b>		1034		ırcuia	tea	
							:				
				······································							
	DEPTH FROM	NE/NW/SW Sec. 2  LICENSE NUMBER WD 421  DRILLING STARTED 7/29/14  COMPLETED WELL IS:  DRILLING METHOD:  DEPTH (feet bgl)  FROM TO  O' 40' O' 757' 757' 1192'  DEPTH (feet bgl)  FROM TO  O' 40' O' 757' 757' 757'  DEPTH (feet bgl)  FROM TO  O' 40' O' 757'  DEPTH (feet bgl)	NE/NW/SW Sec. 27, T215, R33E on  LICENSE NUMBER WD 421  DRILLING STARTED 7/29/14  COMPLETED WELL IS: ARTESIAN  DRILLING HUID: AIR  DRILLING METHOD: ROTARY  DEPTH (feet bgl) BORE HOLE DIAM (inches)  D' 40' 20"  D' 757' 14 3/4"  DEPTH (feet bgl) BORE HOLE DIAM (inches)   NE/NW/SW Sec. 27, T21S, R33E on Merchants Liveston  LICENSE NUMBER WD 421  NAME OF LICENSED DRILLER  Corky Glenn  DRILLING STARTED 7/29/14  COMPLETED WELL IS: ARTESIAN DEPTH OF COMPLETE 11192'  COMPLETED WELL IS: ARTESIAN DRIP HOLE OF MUD  DRILLING METHOD: ROTARY HAMMER DEPTH (feet bgl)  FROM TO DIAM (inches)  DEPTH (feet bgl) BORE HOLE DIAM (include each casi note sections)  O' 40' 20" 16"  O' 757' 14 3/4" 9 5/8"  757' 1192' 8 3/4' 7"  DEPTH (feet bgl) BORE HOLE DIAM (inches)  DEPTH (feet bgl) BORE HOLE DIAM (inches)  TO T57' 14 3/4" Float and Shoe of the section of th	NE/NW/SW Sec. 27, T215, R33E on Merchants Livestock Land  LICENSE NUMBER WD 421  DRILLING STARTED R/2/14  COMPLETED WELL IS: ARTESIAN DEPTH OF COMPLETED WELL (FT) 1192'  COMPLETED WELL IS: ARTESIAN DEPTH OF COMPLETED WELL (FT) 1192'  COMPLETED WELL IS: ARTESIAN DEPTH OF COMPLETED WELL (FT) 1192'  COMPLETED WELL IS: ARTESIAN DEPTH OF COMPLETED WELL (FT) 1192'  DRILLING METHOD: AIR DEPTH OF COMPLETED WELL (FT) 1192'  BORE HOLE DIAM (inches)  DIAM (inches)  CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)  DO' 40' 20" 16"  DEPTH (feet bgl) BORE HOLE TO	NE/NW/SW Sec. 27, T21S, R33E on Merchants Livestock Land  LICENSE NUMBER   NAME OF LICENSED DRILLER   Corky Glenn   DRILLING STARTED   DRILLING ENDED   DEPTH OF COMPLETED WELL (FT)   BORE HOI   7/29/14   8/2/14   1192'   1192'    COMPLETED WELL IS:	NE/NW/SW Sec. 27, T215, R33E on Merchants Livestock Land  LICENSE NUMBER WID 421  DATE Corky Glenn  DRILLING STARTED DRILLING ENDED DRILLING ENDED DRILLING ENDED DRILLING ENDED DRILLING ENDED DRILLING ENDED DRILLING FLUID.  COMPLETED WELL IS:  ARTESIAN  ARTESIAN  DRIVING ADDITIVES - SPECIFY:  DRILLING METHOD  ROTARY  DEPTH (Feet bgl) BORE HOLE (include each casing string, and include each casing string, and include each casing string, and include each casing string. Type  D' 40' 20" 16" None  D' 757' 14 3/4" 9 5/8" Thread and Collar  DEPTH (Feet bgl) BORE HOLE DIAM (inches) Thread and Collar  DEPTH (Feet bgl) BORE HOLE DIAM (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL  D' 40' 20" Cemented  D' 757' 14 3/4" Float and Shoe Cemented to Surface  SEINTERNAL USE WR-2  SEINTERNAL USE  WR-2  SEINTERNAL USE  WR-2  WR-2	LICENSE NUMBER WD 421 Corky Glenn  DRILLING STARTED R/29/14 DRILLING ENDED R/2/14 DRILLING METHOD  ROTARY DRILLING METHOD ROTARY DRILLING METHOD DIAM (inches) DRILLING METHOD DIAM (inches) DRILLING METHOD CONTRICTION TYPE (CASING CONNECTION TYPE (Inches and Collar) DRILLING METHOD DRILLING METHOD DRILLING METHOD DIAM (inches) DRILLING METHOD CONTRICTION TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of screen) TYPE (Inches cache rasing string, and note sections of scre	NE/NW/SW Sec. 27, T215, R33E on Merchants Livestock Land  LICENSE NUMBER  WD 421  Corky Glenn  DBRILING STARTED  BRILING ENDED  BRILING ENDED  BRILING FLID2  ARR  ARTESIAN  C DRY HOLE  C SHALLOW (UNCONFINED)  DBRILING FLID2  STATIC WATER LEVEL IN CC 582  SEATIC WATER LEVEL IN CC 582  DBRILING FLID2  ARR  C MUD ADDITIVES - SPECIFY:  DBRILING FLID2  BORE HOLE  DIAM (inches)  FROM  TO  JO' 40' 20"  14 3/4'  7"  Thread and Collar  SEATIC WATER LEVEL IN CC 583 In Thread and Collar  ASS 352  DEPTH (feet bgl)  DEPTH (feet bgl)  DIAM (inches)  STATIC WATER LEVEL IN CC 582  THE CONNECTION INSIDE DIAM (inches)  THE CONNECTION INSIDE DIAM (inches)  THE CONNECTION INSIDE DIAM (inches)  Thread and Collar  SEA 3/4'  Thread and Collar  AMOUNT (cubic feet)  DEPTH (feet bgl)  DEPTH (feet bgl)  DEPTH (feet bgl)  DEPTH (feet bgl)  DIAM (inches)  BORE HOLE  CASING MATERIAL AND/OR  GRADE  (inches sections of screen)  Thread and Collar  SEA 3/4'  Thread and Collar  GRAVE INTERVAL  AMOUNT (cubic feet)  DIAM (inches)  GRAVE INTERVAL  CONNECTION  AMOUNT (cubic feet)  DIAM (inches)  DIAM (inches	NAME OF WELL DRILLING COMPAN   WD 421   NAME OF LICENSED DRILLER   Corky Glenn   SWater Well Service, BELLING STARTED   DRILLING ENDED   DEPTH OF COMPLETED WELL (FT)   BOBE HOLE DEPTH (FT)   DEPTH WATER FIRST ENCOUNTERS   7/29/14   8/2/14   DEPTH OF COMPLETED WELL (FT)   1192'   1192'   STATIC WATER LEVEL IN COMPLETED WELL (FT)   DEPTH WATER FIRST ENCOUNTERS   STATIC WATER LEVEL IN COMPLETED WELLING FLUID   C ARTESIAN   C DRY HOLE   SHALLOW (UNCONFINED)   STATIC WATER LEVEL IN COMPLETED WELLING FLUID   C ARTESIAN   C DRY HOLE   C SHALLOW (UNCONFINED)   STATIC WATER LEVEL IN COMPLETED WELLING FLUID   C ARTESIAN   C ADDITIVES - SPECITY:    DEPTH (feet bgl)	NAME OF LICENSED DRILLER CORKY Glenn  NAME OF LICENSED DRILLER Glenn's Water Well Service, Inc.  DELLING STARTED BRILLING ENDED BRILLING METHOD  ROTARY  NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.  BORE HOLE DEPTH (FPT) BORE HOLE DEPTH (FPT) STATIC WATER REST ENCOUNTERED (FT) 925'  STATIC WATER REST ENCOUNTERED (FT) 925' STATIC WATER REST ENCOUNTERED (FT) 1192' STATIC WATER REST ENCOUNTER ENCOUNTERED (FT) 1192' STATIC WATER REST ENCOUNTERED (FT) 1192'	

PAGE 1 OF 2

	DEPTH (	feet bgl)			Charles of the same seman	The Late Control of the Control of the	ESTIMATED		
	FROM	ТО	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERS INCLUDE WATER-BEARING CAVITIES OR FRACTURS (attach supplemental sheets to fully describe all uni	E ZONES	WATER BEARING? (YES/NO)	YIELD FOR WATER- BEARING ZONES (gpm)		
	0'	4'	4'	Soil		CY ® N			
5.5	4'	28'	24'	Caleche		CYON			
	28'	120'	92'	Sand and Clay		C Y © N			
315 315	120'	260'	140'	Red Clay		CYON			
	260'	757'	497'	Red and Brown Shale and Clay(some blue)		$C_{\Lambda} \bullet M$	i		
ا برا	757'	815'	58'	Red and Brown Shale		CYON			
OF WELL	815'	840'	25'	Blue Clay and Shale		$O_{A} \odot_{N}$			
O.F.	840'	925'	85'	Red and Brown Shale(some sandrock)		CYEN			
00	925'	975'	50'	Watersand and Gravel		© Y C N			
4. HYDROGEOLOGIC LOG	975'	1185'	210'	Watersand(brown sandrock)		© Y C N			
01	1185'	1192'	7'	Red Shale		$C^{Y} \bullet N$			
						$O^{Y}O^{N}$			
ROC						$C^{Y}C^{N}$			
HXII						$C_A C_N$	* *		
4						$O_A O_N$			
						$C^{Y}$			
						$C^{Y}C^{N}$			
						$O_A O_N$			
Auto-						$C_A C_N$			
49 A (10)						$C^{Y} C^{N}$			
						$C^{Y} C^{N}$			
	METHOD U	ISED TO ES	STIMATE YIELI	OF WATER-BEARING STRATA: PUMP		AL ESTIMATED	EO .		
2000 (Maio 2000 (Maio 2000 (Maio	C AIR LIF	т С	BAILER C	OTHER - SPECIFY:	WE	LL YIELD (gpm):	<b>30</b>		
ISION	WELL TES			TACH A COPY OF DATA COLLECTED DURING WELL TESTI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDO					
	MISCELLA	NEOUS IN	FORMATION:				en salab ter jedicen alle de er e		
RIG SUPERV	! _ <u>.</u>								
5 5	0' to 757	" drilled w	ith mud. 757	" to 1192' drilled with air and foam.					
L R									
TEST;	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:								
vi									
SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:								
NE NE									
6. SIC	10	they.	ftem	Corky 6/ess	81	2/14			
3	. •	SIGNAT	URE OF DRILLI	ER / PRINT SIGNEE NAME	- /	DATE			
FOH	R OSE INTER	NAL USE	· · · · · · · · · · · · · · · · · · ·	WR	-20 WELL RI	ECORD & LOG (Ve	rsion 06/08/2012)		



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

CP 01356 POD1

2 33 21S 33E

634560 3590014

**Driller License: 421 Driller Company:** GLENN'S WATER WELL SERVICE

GLENN, CLARK A. "CORKY" **Driller Name:** 

**Drill Start Date:** 08/01/2014 **Drill Finish Date:** 

08/09/2014 Plug Date:

Log File Date: 08/25/2014 **PCW Rcv Date:** Source: Artesian

**Pump Type:** Pipe Discharge Size: **Estimated Yield:** 

**Casing Size: Depth Well: Depth Water:** 6.37 1098 feet 555 feet

Water Bearing Stratification	ons: Top	Bottom	Description
	765	795	Sandstone/Gravel/Conglomerate
	795	825	Shale/Mudstone/Siltstone
	825	920	Sandstone/Gravel/Conglomerate
	920	935	Shale/Mudstone/Siltstone
	935	968	Sandstone/Gravel/Conglomerate
	968	976	Shale/Mudstone/Siltstone
	976	1005	Sandstone/Gravel/Conglomerate
	1005	1092	Sandstone/Gravel/Conglomerate
Casing Perforati	ons: Top	Bottom	

735

1098

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

POD SUMMARY - CP 01356 POD1 3/5/19 1:52 PM Page 1 of 1



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01357 POD1

4 3 1 27 21S 33E

634782 3591347

ð

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY"

**Drill Start Date:** 08/16/2014

**Drill Finish Date:** 

08/26/2014

Plug Date:

Log File Date:

09/10/2014

PCW Rcv Date:

0,20,20 . .

Source: Artesian

Pump Type:

**Pipe Discharge Size:** 

**Estimated Yield:** 

Casing Size:

6.37

Depth Well:

1286 feet

Depth Water:

578 feet

Water Bearing Stratifications: Top Bottom Description

945

960 Sandstone/Gravel/Conglomerate

960

1077 Shale/Mudstone/Siltstone

1077

1215 Sandstone/Gravel/Conglomerate

1215

15 1286 Shale/Mudstone/Siltstone

**Casing Perforations:** 

**Top Bottom** 

846

1286

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3/5/19 2:11 PM Page 1 of 1 POD SUMMARY - CP 01357 POD1

## Appendix B

**EM Survey** 

R.T. Hicks Consultants, Ltd.

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

### R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745 ★ Durango, CO ★ Carlsbad, NM ★ Midland, TX

## **ELECTROMAGNETIC SURVEY**

RELATIONSHIP WITH ELECTRICAL CONDUCTIVITY AND CHLORIDE

Revised: October 12, 2019 (DRAFT)

Electromagnetic surveys (EM Survey) are commonly used to measure electrical conductivity (EC, "soil salinity") in soils. Employing a Geonics EM38 (Exhibit 1), field personnel can effectively delineate the horizontal extent of a produced water release by measuring EC and monitoring for EC changes between background and higher EC readings. Increasing EC measurements suggest that the edge of the release extent is approaching.

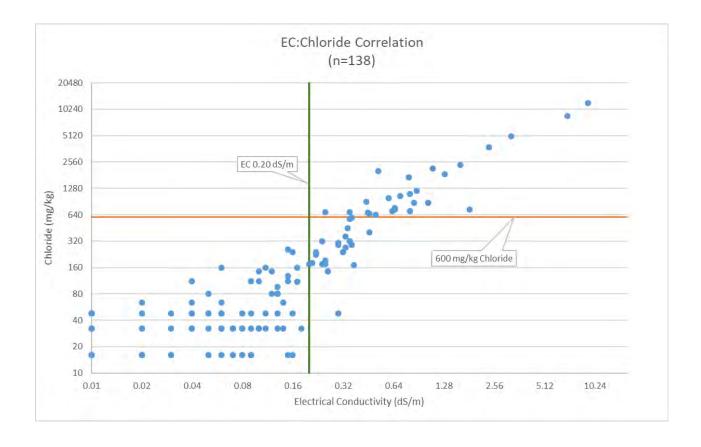


Exhibit 1: Measuring EC with the EM38 in the vertical position.

The EM38 detects EC from the surface to a depth of approximately 4-feet. EC measurements can be obtained in the vertical or horizontal positions. In the vertical position, EC readings are weighted toward the lower depths of 3 to 4 feet. In the horizontal position, EC readings are weighted toward the upper 0 to 2 feet. If a higher EC reading is obtained in the horizontal position than the vertical position, produced water has likely impacted the upper surface more than at lower depths. If a higher EC reading is obtained in the vertical position than the horizontal position, produced water has likely impacted lower soils than the upper surface soils.

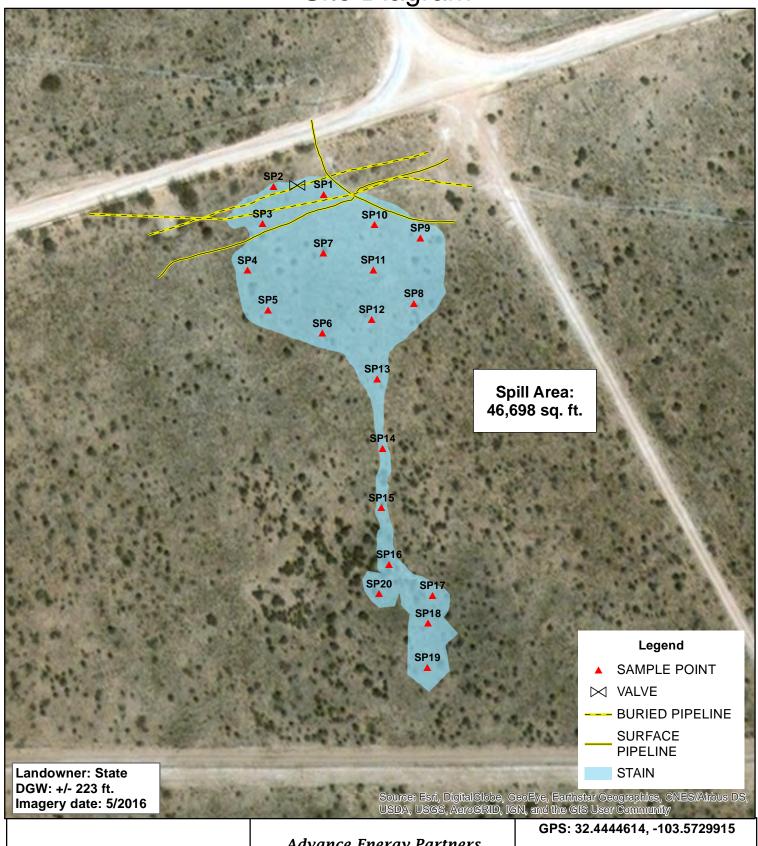
The below charts show the correlation between EC and Chloride (Cl) measurements measured over 139 sample points (n=138). The EC measurements collected in the field are temperature corrected (TC) to 25° Celsius.

Analysis of data shows that an EC values greater than 0.20 dS/m is the delineation threshold where chloride in soil has a potential to be greater than 600 mg/kg. Furthermore, field personnel can survey a release and identify "hot spots" with the highest EC readings. These hot spots are likely areas where impacted to near surface soils (0 to 4 feet) from released produced water will be the greatest.



# **Appendix C**eTECH Sampling Data

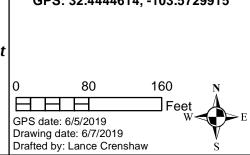
Site Diagram





Advance Energy Partners (Kingsley Construction) Merchant Recycling Containment (Blueberry to Cheddar)

> UL/P, Sec. 28 T21S R33E Lea County, NM





June 13, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: BLUEBERRY TO CHEDDAR

Enclosed are the results of analyses for samples received by the laboratory on 06/06/19 15:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 06/06/2019
 Sampling Date:
 06/05/2019

 Reported:
 06/13/2019
 Sampling Type:
 Soil

Reported: 06/13/2019 Sampling Type: Soil
Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

4 .. . l. ... . d D. .. ... .

Project Location: NONE GIVEN

#### Sample ID: SP 1 @ 1' (H901988-01)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	80.0	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	94.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

#### Cardinal Laboratories \*=Accredited Analyte

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



Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019 Reported: Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

06/13/2019

#### Sample ID: SP 1 @ 2' (H901988-02)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	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	48.0	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	90.8 9	6 41-142							
Surrogate: 1-Chlorooctadecane	95.8 9	6 37.6-14	7						

#### Cardinal Laboratories \*=Accredited Analyte

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: NONE GIVEN

#### Sample ID: SP 2 @ SURFACE (H901988-03)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	96.0	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	98.1	% 41-142	·						
Surrogate: 1-Chlorooctadecane	102 9	% 37 6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 2 @ 1' (H901988-04)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019 Reported: Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

06/13/2019

#### Sample ID: SP 3 @ 3' (H901988-05)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	304	16.0	06/11/2019	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	95.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 3 @ 4' (H901988-06)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	97.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 4 @ 2' (H901988-07)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 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	80.0	16.0	06/11/2019	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	90.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 4 @ 3' (H901988-08)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	3.92	
TPH 8015M	mg,	/kg	Analyze	ed 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	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.9	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 5 @ 1' (H901988-09)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	32.0	16.0	06/11/2019	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.5	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 5 @ 2' (H901988-10)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	78.4	% 41-142							
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 6 @ 3' (H901988-11)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	< 0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/11/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed 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	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane 93.0 %

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Fax To: (575) 396-1429

 Received:
 06/06/2019
 Sampling Date:
 06/05/2019

 Reported:
 06/13/2019
 Sampling Type:
 Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 6 @ 4' (H901988-12)

Analyte Result Reporting Limit Analyzed Method Blank BS % Benzene* <0.050 0.050 06/11/2019 ND 2.37 Toluene* <0.050 0.050 06/11/2019 ND 2.37 Ethylbenzene* <0.050 0.050 06/11/2019 ND 2.23 Total Xylenes* <0.150 0.150 06/11/2019 ND 6.70 Total BTEX <0.300 0.300 06/11/2019 ND	118 119 111 112	2.00 2.00 2.00 2.00 6.00	RPD 1.09 0.114 1.10 1.29	Qualifier
Toluene* <0.050 0.050 06/11/2019 ND 2.37 Ethylbenzene* <0.050 0.050 06/11/2019 ND 2.23 Total Xylenes* <0.150 0.150 06/11/2019 ND 6.70	119 111	2.00 2.00	0.114 1.10	
Ethylbenzene* <0.050 0.050 06/11/2019 ND 2.23 Total Xylenes* <0.150 0.150 06/11/2019 ND 6.70	111	2.00	1.10	
Total Xylenes* <0.150 0.150 06/11/2019 ND 6.70				
, ,	112	6.00	1.29	
Total BTEX <0.300 0.300 06/11/2019 ND				
Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129				
Chloride, SM4500Cl-B mg/kg Analyzed By: AC				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
<b>Chloride 192</b> 16.0 06/11/2019 ND 400	100	400	3.92	
TPH 8015M mg/kg Analyzed By: MS				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 06/09/2019 ND 228	114	200	6.68	
DRO >C10-C28* <10.0 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 93.2 % 41-142				
Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147				

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil
Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP 7 @ 3' (H901988-13)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	288	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	93.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.5	% 37.6-14	7						

54.10 gate. 1 Chio/occidatectaric 70.3 /v 57.0 17/

Cardinal Laboratories \*=Accredited Analyte

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 7 @ 4' (H901988-14)

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	06/11/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/11/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 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	96.0	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	102 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	107 9	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019 Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 8 @ 4' (H901988-15)

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	06/12/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/12/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	32.0	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	98.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 8 @ 5' (H901988-16)

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	06/12/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/12/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	90.1	% 41-142							
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 9 @ SURFACE (H901988-17)

Benzene* <0.050 0.050 06/12/2019 ND 2.37 118 2.00 1.05 Toluene* <0.050 0.050 06/12/2019 ND 2.37 119 2.00 0.11 Ethylbenzene* <0.050 0.050 0.050 06/12/2019 ND 2.37 119 2.00 1.10 Total Xylenes* <0.050 0.050 0.6/12/2019 ND 2.23 111 2.00 1.10 Total BTEX <0.300 0.300 06/12/2019 ND 6.70 112 6.00 1.25  **Total BTEX <0.300 0.300 06/12/2019 ND  **Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129  **Chloride, SM4500Cl-B mg/kg Analyzed By: AC  **Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC  **Chloride 192 16.0 06/11/2019 ND 400 100 400 3.92  **TOTAL BTEX Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC  **TOTAL BTEX Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC  **TOTAL BTEX TOTAL BTEX TOT	BTEX 8021B	mg/	/kg	Analyze	ed By: ms					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 06/12/2019 ND 2.23 111 2.00 1.10 Total Xylenes* <0.150 0.150 06/12/2019 ND 6.70 112 6.00 1.29 Total BTEX <0.300 0.300 06/12/2019 ND  Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129  Chloride, SM4500Cl-B mg/kg Analyzed By: AC  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC  Chloride 192 16.0 06/11/2019 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 RPC  GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.68  DRO >C10-C28* <10.0 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 91.1 % 41-142	Benzene*	<0.050	0.050	06/12/2019	ND	2.37	118	2.00	1.09	
Total Xylenes*	Toluene*	<0.050	0.050	06/12/2019	ND	2.37	119	2.00	0.114	
Total BTEX	Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.10	
Surrogate: 4-Bromofluorobenzene (PID         101 % 73.3-129           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPC           Chloride         192         16.0         06/11/2019         ND         400         100         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank         BS         % Recovery         True Value QC         RPC           GRO C6-C10*         <10.0	Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.70	112	6.00	1.29	
Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPC           Chloride         192         16.0 06/11/2019 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 RPC           GRO C6-C10*         <10.0 10.0 06/09/2019 ND 228 114 200 6.68	Total BTEX	<0.300	0.300	06/12/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 192 16.0 06/11/2019 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  GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.68  DRO >C10-C28* <10.0 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 91.1 % 41-142	Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride         192         16.0         06/11/2019         ND         400         100         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed By: MS           GRO C6-C10*         < 10.0         10.0         06/09/2019         ND         228         114         200         6.68           DRO >C10-C28*         < 10.0         10.0         06/09/2019         ND         202         101         200         9.54           EXT DRO >C28-C36         < 10.0         10.0         06/09/2019         ND         ND         202         101         200         9.54           Surrogate: 1-Chlorooctane         91.1 % 41-142	Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD RDD Properties (Control of the control of the contr	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.68 DRO >C10-C28* <10.0 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 91.1 % 41-142	Chloride	192	16.0	06/11/2019	ND	400	100	400	3.92	
GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.68 DRO >C10-C28* <10.0 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 91.1 % 41-142	TPH 8015M	mg/	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 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 91.1 % 41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 91.1 % 41-142	GRO C6-C10*	<10.0	10.0	06/09/2019	ND	228	114	200	6.68	
Surrogate: 1-Chlorooctane 91.1 % 41-142	DRO >C10-C28*	<10.0	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-Chlorooctadecane 90.0 % 37.6-147	Surrogate: 1-Chlorooctane	91.1	% 41-142	?						
	Surrogate: 1-Chlorooctadecane	90.0	% 37.6-14	7						

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Tamara Oldaker



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil
Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By:
Project Location: NONE GIVEN

## Sample ID: SP 9 @ 1' (H901988-18)

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	06/12/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/12/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 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	176	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	94.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 10 @ 2' (H901988-19)

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	06/12/2019	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	06/12/2019	ND	2.37	119	2.00	0.114	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.23	111	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.70	112	6.00	1.29	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	352	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	95.7 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/05/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 10 @ 3' (H901988-20)

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	QR-03
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	QR-03
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	QR-03
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	97.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: NONE GIVEN

## Sample ID: SP 14 @ 2' (H901988-21)

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 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	128	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	98.4	% 41-142	<u> </u>						
Surrogate: 1-Chlorooctadecane	104	% 37 6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 14 @ 3' (H901988-22)

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	< 0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	94.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition:

Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: NONE GIVEN

## Sample ID: SP 15 @ 1' (H901988-23)

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.4	% 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	240	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	101 9	% 41-142	·						
Surrogate: 1-Chlorooctadecane	101 9	% 37 6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 15 @ 2' (H901988-24)

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 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	240	16.0	06/11/2019	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	105	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Tamara Oldaker

Sample Received By:



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: Sampling Type: Soil 06/13/2019 Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact

Project Location: NONE GIVEN

NONE GIVEN

## Sample ID: SP 16 @ 3' (H901988-25)

Project Number:

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	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	176	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	98.5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Coo

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: BE

Project Location: NONE GIVEN

## Sample ID: SP 16 @ 4' (H901988-26)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	94.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	93.5	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil
Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 17 @ 2' (H901988-27)

Benzene*	BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* < 0.050 0.050 06/11/2019 ND 2.11 106 2.00 4.7  Total Xylenes* < 0.150 0.150 06/11/2019 ND 5.53 92.2 6.00 8.1  Total BTEX < 0.300 0.300 06/11/2019 ND  Surrogate: 4-Bromofluorobenzene (PID 106 % 73.3-129  Chloride, SM4500Cl-B mg/kg Analyzed By: AC  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPI Of ND 400 100 400 0.0  The Bolism mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPI Malyte Method Blank BS % Recovery True Value QC RPI Of ND 400 100 400 0.0  The Bolism mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPI Of ND 228 114 200 6.6  DRO >C10-C28* < 10.0 10.0 06/09/2019 ND 202 101 200 9.5  EXT DRO >C28-C36 < 10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	Benzene*	<0.050	0.050	06/11/2019	ND	1.93	96.5	2.00	2.46	
Total Xylenes*	Toluene*	<0.050	0.050	06/11/2019	ND	1.63	81.4	2.00	4.96	
Total BTEX	Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.11	106	2.00	4.73	
Surrogate: 4-Bromofluorobenzene (PID         106 %         73.3-129           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery         % Recovery True Value QC RPI Analyzed By: MS           Chloride         80.0         16.0         06/11/2019 ND 400 100 400 100 400 0.0         0.0           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank BS Recovery         % Recovery True Value QC RPI Analyzed Method Blank BS Recovery         % Recovery True Value QC RPI Analyzed Price Value QC	Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.53	92.2	6.00	8.11	
Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPC           Chloride         80.0 16.0 06/11/2019 ND 400 100 400 0.0           TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPC         RPC           GRO C6-C10*         <10.0 10.0 06/09/2019 ND 228 114 200 6.6	Total BTEX	<0.300	0.300	06/11/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPIC  Chloride 80.0 16.0 06/11/2019 ND 400 100 400 0.0  TPH 8015M mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPIC  GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.6  DRO >C10-C28* <10.0 10.0 06/09/2019 ND 202 101 200 9.5  EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	Surrogate: 4-Bromofluorobenzene (PII	106	% 73.3-12	9						
Chloride         80.0         16.0         06/11/2019         ND         400         100         400         0.0           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank         BS         % Recovery         True Value QC         RPI           GRO C6-C10*         <10.0	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPI           GRO C6-C10*         <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPI GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.6 DRO >C10-C28* <10.0 10.0 06/09/2019 ND 202 101 200 9.5 EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	Chloride	80.0	16.0	06/11/2019	ND	400	100	400	0.00	
GRO C6-C10* <10.0 10.0 06/09/2019 ND 228 114 200 6.6  DRO >C10-C28* <10.0 10.0 06/09/2019 ND 202 101 200 9.5  EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	TPH 8015M	mg	/kg	Analyze	d By: MS					
DRO >C10-C28* < 10.0 10.0 06/09/2019 ND 202 101 200 9.5  EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 06/09/2019 ND  Surrogate: 1-Chlorooctane 87.2 % 41-142	GRO C6-C10*	<10.0	10.0	06/09/2019	ND	228	114	200	6.68	
Surrogate: 1-Chlorooctane 87.2 % 41-142	DRO >C10-C28*	<10.0	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-Chlorooctadecane 87.3 % 37.6-147	Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
	Surrogate: 1-Chlorooctadecane	87.3	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 17 @ 3' (H901988-28)

BTEX 8021B	mg,	/kg	Analyze	ed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/11/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	92.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.7	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: BE

Project Location: NONE GIVEN

## Sample ID: SP 18 @ 2' (H901988-29)

RTFY 8021R

BIEX 8021B	mg/	кg	Anaiyze	a By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	144 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	97.5	% 41-142	)						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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Celey D. Keine

C-04



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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 18 @ 3' (H901988-30)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	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	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	<10.0	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	96.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.9	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 11 @ 3' (H901988-31)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	140 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	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	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	91.3	% 41-142	<b>)</b>						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 11 @ 4' (H901988-32)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	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	06/09/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/09/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2019	ND					
Surrogate: 1-Chlorooctane	79.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	80.9	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact

Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 12 @ 2' (H901988-33)

BTEX 8021B	mg/	kg	Analyzed By: BF						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	< 0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 %	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	496	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	100 %	% 41-142	·						
Surrogate: 1-Chlorooctadecane	96.89	% 37 6-14	7						

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Celey D. Keine



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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: BE

Project Location: NONE GIVEN

## Sample ID: SP 12 @ 3' (H901988-34)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	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	97.0	% 41-142	1						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 13 @ 4' (H901988-35)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	96.0	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	90.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: BLUEBERRY TO CHEDDAR Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 19 @ 1' (H901988-36)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	145	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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	85.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: 06/13/2019 Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 19 @ 2' (H901988-37)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0	% 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	06/11/2019	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	93.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.6	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019

Reported: Sampling Type: Soil 06/13/2019

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

## Sample ID: SP 20 @ 2' (H901988-38)

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	06/12/2019	ND	1.93	96.5	2.00	2.46	
Toluene*	<0.050	0.050	06/12/2019	ND	1.63	81.4	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.11	106	2.00	4.73	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	5.53	92.2	6.00	8.11	
Total BTEX	<0.300	0.300	06/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	208	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	97.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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Fax To: (575) 396-1429

Received: 06/06/2019 Sampling Date: 06/06/2019 Reported: Sampling Type: Soil

Project Name: **BLUEBERRY TO CHEDDAR** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

06/13/2019

## Sample ID: SP 20 @ 3' (H901988-39)

True Value QC 2.00 2.00 2.00 6.00	RPD 2.46 4.96 4.73 8.11	Qualifier
2.00 2.00 6.00	4.96 4.73 8.11	
2.00 6.00	4.73 8.11	
6.00	8.11	
T W 00		
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True Value QC	RPD	Qualifier
400	0.00	
True Value QC	RPD	Qualifier
200	5.54	
200	6.64	
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## **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.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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LEASE NOTE: Liability and Day nalyses, All claims including the ervice. In no event shall Cardina ffillates or successors arising out	mages. Cardinal's liability and clier se for negligence and any other ca I be liable for incidental or conseq of or related to the performance or	nt's exclusive remedy for a suse whatsoever shall be uental damages, including if services hereunder by C	any claim arising whether based in contra deemed walved unless made in writing a g without limitation, business interruptions bardinal, regardless of whether such clair	FLEASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive enredy for any claim asking whether based in contract or tort, shall be limited to the amount paid by the client for the nanyses. All claims including those for negligence and any other cause whatsoever shall be detended welved unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be fiable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	d by the client for the completion of the applicable lient, its subsidiaries, sons or otherwise.	· ·					
Relinquished By:	a crueler	Date: 19	Received By:	Maken	ļ.	□ Yes	N N		Add'l Phone #: Add'l Fax #:		
Relinquished By:		Date:	Received By:		email results	22	ance	0	ctecho	lance of externer	
Delivered By: (Circle One)	Sircle One)		Sample Condition Cool Intact	tion CHECKED BY:					0.00	no con	
Sampler - UPS - E	Bus - Other:	4.50 Hg	7	2 × S							

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## **Appendix D**

**Laboratory Certificates of Analyses** 



September 23, 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 09/20/19 15:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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:
 09/20/2019
 Sampling Date:
 09/19/2019

 Reported:
 09/23/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: HA - 01 EAST WALL 0-3.5' (H903256-01)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Result 160 Chloride 16.0 09/23/2019 ND 416 104 400 0.00

Sample ID: HA - 01 WEST WALL 0-3.5' (H903256-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 144 16.0 09/23/2019 ND 416 104 400 0.00

Sample ID: HA - 01 BASE 3.5' (H903256-03)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 160 16.0 09/23/2019 ND 400 0.00 416 104

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene

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

Company Name:	7. Hicks								in			6		BILL TO			ANALYSIS	1	S	S	Z	EC	$\tilde{\subseteq}$	REQUEST	7	V.						
Project Manager: 🔔	Indian Passel								0	P.O. #	*							$\dashv$		-		-										
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Phone #:	Fax #:								Ac	Address:	SSS			020100																		
Project #:	Project Owner:	П							Ω	city:												_										
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FOR LAB USE ONLY		IP.				MATRIX	RX			P	ÆS	PRESERV.	!<	SAMPLING		ric															-	
Lab I.D.	Sample I.D.	G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL		OTHER:	DATE 1	TIME	chlo															-	
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Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) 4.70 prested 5.18 Time: 15:20 Date: Time: 9-20-19 Received By: Sample Condition
Cool Infact
Pes Pes
No No CHECKED BY: (Initials) Phone Result:
Fax Result:
REMARKS: ☐ Yes ☐ No Add'l Phone #:
☐ Yes ☐ No Add'l Fax #:



September 11, 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 09/10/19 16:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 09/10/2019 Reported: 09/11/2019

Project Name: ADVANCE ENERGY Project Number: KINGSLEY (KCI) Project Location: NOT GIVEN

Sampling Date: 09/10/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: RS - 01 S. BASE 9' (H903127-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/11/2019	ND	416	104	400	0.00	
Sample ID: RS - 01 W.B. 6.5'	(H90312	7-02)							

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/11/2019	ND	416	104	400	0.00	

### Sample ID: RS - 01 E.B. 6.5' (H903127-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/11/2019	ND	416	104	400	0.00	

### Sample ID: RS - 01 S. W. 7' (H903127-04)

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	09/11/2019	ND	416	104	400	0.00		

Cardinal Laboratories \*=Accredited Analyte

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



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

Received: 09/10/2019 Sampling Date: 09/10/2019

Reported: 09/11/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY ( KCI ) Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: EC 20N 5' (H903127-05)

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 09/11/2019 ND 416 400 0.00 32.0 104

Sample ID: EC 24S 6' (H903127-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 32.0 16.0 09/11/2019 416 400 0.00 ND 104

Sample ID: EC 28NW 6' (H903127-07)

Chloride, SM4500CI-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	09/11/2019	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

(210) 222-222 (210) 22	1110	HOTEL COLOR
Company Name: R. 7. 1410AS	BILL TO	ANALYSIS REQUEST
Project Manager: Andrew Parker	P.O. #:	
1	Company: R.T. 17:065	
City: State:	Zip: Attn: Send to 1800 of the	
Phone #: Fax #:	Address:	
	Project Owner: City:	
Project Name: 1 d Vance Energy	State: Zip:	
n:	Phone #:	
Sampler Name: SACOD SALW2	Fax#:	
	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	: ASE: DOL	
H903127	GROUWAST SOIL OIL SLUD OTHE ACID OTHE	
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive analyses, All claims including those for negligence and any other pertise whatso	PLEASE NOTE: Liability and Damages, Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other exclusive remedy for any claim arising whether based in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other exclusive whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	
service. In no event shall Cardinal be liable for incidental or consequential data	service. In no event shall cardinal be hable for industrial or consequence has been been serviced and the state of whether such daim is based upon any of the above stated reasons or otherwise.	Pa

Relinquished By:

Relinquished By:

Time: 40

Received By

Date: 9/10/19

recunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| 10/14 | Received By: | Phone Result: | Fax Result: | Fax Result: | REMARKS:

☐ Yes ☐ No Add'I Phone #:

Sampler - UPS - Bus - Other: 4.6 5.62 #97

Sample Condition
Cool \_Intact
Yes Yes
No No

RUSH!!

Delivered By: (Circle One) +.405(fested)



September 06, 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 09/06/19 8:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 09/06/2019 Sampling Date: 09/05/2019

Reported: 09/06/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 20 TRENCH WALL 2-4' (H903078-01)

Chioride, SM4500CI-B	mg	/ <b>kg</b>	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/06/2019	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Company Name:	RT Hicks Coosultate	14	BILL TO	ANALYSIS REQUEST
Project Manager:	Andrew P.		P.O. #:	
Address: @	en- 5.10		Company: PLT Hicks	
City:	State:	Zip:	Attn: Mail to ABQ	
Phone #: 970	970-570-9535 Fax#:		Address: OFFICE	
Project #:	Project Owner:	7	City:	
Project Name:	Advance Eneral		State: Zip:	
Project Location:	Kingsle	+)	Phone #:	
Sampler Name:	Andrew Parker		Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chloride
_		X		
	2-4 FT			
PLEASE NOTE: Liability and	Damages. Cardinal's liability and client's exclusive remedy for	any claim arising whether based in contre	PLEASE NOTE; Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	the state of the s
analyses. All claims including service. In no event shall Car	those for negligence and any other cause whatsoever shall be liable for incidental or consequental damages, including the liable for incidental or consequental damages.	deemed waived unless made in writing a	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable sorvice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	s applicable es,
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Relinquished By:

Date: 19. 19. 19. 17. 17. 18. 19. 3

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

8 8 8

Add'I Phone #: Add'I Fax #:

Date: Time:

Received By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

-9.9c

Sample Condition
Cool Intact
Tes Tes
No No

CHECKED BY: (Initials)

Relinquished By:



September 05, 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 09/04/19 17:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 09/04/2019
 Sampling Date:
 09/04/2019

 Reported:
 09/05/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 12 BASE 3.5' (H903062-01)

Chloride, SM4500CI-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	09/05/2019	ND	432	108	400	3.77	
Sample ID: EC - 13 BASE	3.5' (H90306	52-02)							
Chloride, SM4500CI-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	09/05/2019	ND	432	108	400	3.77	
Sample ID: EC - 14 BASE	3.5' (H90306	52-03)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: EC - 20 BASE 2' (H903062-04)

Chloride

16.0

16.0

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	09/05/2019	ND	432	108	400	3 77	

ND

432

108

400

3.77

09/05/2019

Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

 Received:
 09/04/2019
 Sampling Date:
 09/04/2019

 Reported:
 09/05/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 20 E. WALL 0-2' (H903062-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/05/2019	ND	432	108	400	3.77	

### Sample ID: EC - 20 TRENCH BASE 4.5' (H903062-06)

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	09/05/2019	ND	432	108	400	3.77	

### Sample ID: EC - 21 W. WALL 1.5-2.5' (H903062-07)

Chloride, SM4500CI-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	09/05/2019	ND	432	108	400	3.77	

### Sample ID: EC - 21 N. WALL 2.5-4' (H903062-08)

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	09/05/2019	ND	432	108	400	3.77	

### Sample ID: EC - 21 E. WALL 1-2.5' (H903062-09)

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	09/05/2019	ND	432	108	400	3.77	

### Cardinal Laboratories \*=Accredited Analyte

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

 Received:
 09/04/2019
 Sampling Date:
 09/04/2019

 Reported:
 09/05/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 21 TRENCH 4.5' (H903062-10)

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	09/05/2019	ND	432	108	400	3.77	

### Sample ID: EC - 21 BASE 2.5' (H903062-11)

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	09/05/2019	ND	416	104	400	0.00	

### Sample ID: N-N TRENCH W. WALL 2-4' (H903062-12)

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	09/05/2019	ND	416	104	400	0.00	

### Sample ID: N-N TRENCH E. WALL 1.5-4' (H903062-13)

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	09/05/2019	ND	416	104	400	0.00	

### Sample ID: N-N TRENCH N. WALL 2.5-4' (H903062-14)

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	09/05/2019	ND	416	104	400	0.00	

### Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

 Received:
 09/04/2019
 Sampling Date:
 09/04/2019

 Reported:
 09/05/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: N-N TRENCH BASE 5' (H903062-15)

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	09/05/2019	ND	416	104	400	0.00	

### Sample ID: N-N TRENCH S. WALL 1.5-4' (H903062-16)

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	09/05/2019	ND	416	104	400	0.00	

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Project Manager: Andrew Parker P.O. #:
Address: on-file Company: LT Hick
City: State: Zip: Attn: Mail h
Phone #: Fax #: Address: ASQ
Project #: Project Owner: City:
Project Name: Advance Energy State: Zip:
Project Location:   <inabley #:<="" (1))="" (k="" phone="" td=""></inabley>
Sampler Name: Andrew Park Fax #:
Lab I.D.  (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME
1 FC-12 Base 3.5 FT C 1 X X 9.4.19 10:00
BASE
EC -20 Base
S & C - 20 E. WALL 0 - 2 FT 10:40
6 EC-20 Trench Bage 4.5 FT 10:50
7 EC-21 W. WALL 1.5-25 FT 11:00
8 EC-21 N.WALL 2.5-4 FT 11:10
Ec-2)
10 EC-21 Trench 4.5 FT VV V V V V V V 11:30

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above Relinquished By:

| Received By: | Received By: |

Phone Result:
Fax Result:
REMARKS:

☐ Yes

N N

Add'l Phone #: Add'l Fax #:

Relinquished By:

hodinga

Date: 9.49.49
Time: 17:05

Date: Time:

Received By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

からいっ

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

RFN

9



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

anager: Andrew Parker P.O. #:  8 n-1:12 Company:	
Company:	
City: State: Zip: Attn: Mail to All Q	
Phone #: Fax #: Address:	
Project #: City:	
Project Name: Advence Energy State: Zip:	
Project Location: Kings/fy (CCI)  Phone #:	
Sampler Name: Andrew Parker Fax#:	
FOR LAB USE ONLY MATRIX PRESERV. SAMPLING	
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  DATE  TIME	
1/ EC-21 Base 25 FT C1 X X 9449 11:40 X	
12 N-N Trench W.WALL 2-4PT 1 1 13:00 , 13:00	
13 N-N Tranch E. WALL 1.5-4177 13:10	
14 N-N Trouch N.WAUL 2.5-4 F7 13:20	
16 N-N Trench S, WALL 1.5-41:7 V V V V V 13:40 V	
2>	

Relinquished By:

Cracin

Time: 9.4.19

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

33. 20

Sample Condition
Cool Intact
Cycs Tes

CHECKED BY: (Initials)

Page 2/2

REN

Time: Date: Relinquished By:

cessors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Shed By:

Date:

Received By:

Fax Result:

Fax Result:

REMARKS:

□ Yes

□ □ 8 8

Add'l Phone #: Add'l Fax #:



September 04, 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 09/03/19 16:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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:
 09/03/2019
 Sampling Date:
 08/30/2019

 Reported:
 09/04/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 08 BASE 2' (H903036-01)

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	09/04/2019	ND	432	108	400	3.77	
Sample ID: EC - 09 BASE	4' (H903036-	02)							
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	09/04/2019	ND	432	108	400	3.77	
Sample ID: EC - 10 BASE	4' (H903036-	03)							
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	09/04/2019	ND	432	108	400	3.77	
Sample ID: EC - 11 BASE	3' (H903036-	04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	, <u> </u>		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Cardinal Laboratories \*=Accredited Analyte

ND

432

108

400

3.77

09/04/2019

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Celey D. Keine

Chloride

32.0

16.0



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

Fax To: NONE

Received: 09/03/2019 Sampling Date: 08/30/2019

Reported: 09/04/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 18 BASE 2.5' (H903036-05)

Chioride, SM4500CI-B	mg/	кд	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/04/2019	ND	432	108	400	3.77	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Company Name: RT HICKS		BILL TO	ANALYSIS REQUEST
Project Manager: Andrew Parka-		P.O. #:	
7-516		Company: RT Hick	
City: State:	Zip:	Attn: Mail to ASQ	
Phone #: 970 - 570 - 9535 Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name: Advance Enclose		State: Zip:	
on: Kinds		Phone #:	
13		Fax #:	
	MATRIX	PRESERV, SAMPLING	
Lab I.D. Sample I.D.	E)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL LUDGE	THER: CID/BASE: EE / COOL THER:	Chloride
1 80-08 Ber 2 FT		X 8.50-F1 15:00	۶۰
2 61-09 Rase 412T	-	1 15:10	
3 51-10 Ray 4FT		15:20	0
		15:30	00
5 67-18 Base 2.5 FT	4	7.5' X X	40
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service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitiaries,	ng without limitation, business interruptions, k	business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie	bsidanes,

Relinquished By

sors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated ted By:

Date:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

Received By:

Relinquished By:

200

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

W. 80

#57

Sample Condition
Cool Intact
Pes Yes
No No

4

CHECKED BY: (Initials)

RTZ



August 30, 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 08/30/19 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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:
 08/30/2019
 Sampling Date:
 08/29/2019

 Reported:
 08/30/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 12 S. WALL 0-4' (H903017-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00	
Sample ID: EC - 12 BASE 5'	(H903017	-02)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					

Method Blank

ND

BS

400

% Recovery

100

True Value QC

400

RPD

0.00

Qualifier

Analyzed

08/30/2019

### Sample ID: EC - 13 S. WALL 0-4' (H903017-03)

Result

32.0

Reporting Limit

16.0

Analyte

Chloride

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2019	ND	400	100	400	0.00	

### Sample ID: EC - 13 BASE 5' (H903017-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Company Name:	これったいこうこうかけてる:	75	01.7718	The control of the co	ANALYSIS REQUEST
Project Manager:	Andrew		P.O. #:		
Address: ⊙ n)-	5.16		Company: RT 4:ck	5	
City:	State:	Zip:	Attn: Ma; 1 to	480	
Phone #: 970	-570-9535 Fax#:		Address:	,	
Project #:	Project Owner:	Ä	City:		
Project Name:	Advance Energy		State: Zip:		
Project Location:	Kind SI		Phone #:		
Sampler Name:	ob Sacny/And	raw Parler	Fax #:		
FOR LAB USE ONLY	,	MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorid	
-	EC-12 S WALL 0-4 FT	C - \	8.27.19	IS: 00 ≯	
2	EC-12 BASE S ET			15:10	
W	EC -13 S WALL 0-417			15:15	
4	EC-13 BASE 5 FT	*	*	N &:51	
PLEASE NOTE: Liability an	d Damanes, Cardinal's liabiliN and client's exclusive remedy for	any claim arising whether based in contract	for for shall be limited to the amount paid	he the client for the	
analyses, All claims includir service. In no event shall Ca	T-LEASE NOTE: Lubinity and Jamages, Cardinals lability and client's exclusive femely for any claim arising whether based in confract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatebover's hall be deemed which and lease in writing and reserved by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or foss of profits incurred by client, its subsidiaries.	any claim arising whether based in control deemed waived unless made in writing ar g without limitation, business interruptions	or tort, shall be limited to the amount paid id received by Cardinal within 30 days after or loss of use, or loss of profits incurred by clin	by the client for the completion of the applicable ent, its subsidiaries.	

Relinquished By:

Time: Time:

Received By:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes

□ □ No

Add'I Phone #: Add'I Fax #:

Sampler - UPS - Bus - Other: Assisted 3.4

Delivered By: (Circle One) 3.02

イも井

Sample Condition
Cool Intact
Yes Yes
No No

40

CHECKED BY: (Initials)

RFN

Relinquished By:



August 29, 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 08/29/19 9:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 08/29/2019
 Sampling Date:
 08/28/2019

 Reported:
 08/29/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: RS - 01 TRENCH BASE 9' (H902992-01)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/29/2019	ND	416	104	400	3.92	
Sample ID: N-S TRENCH B	ASE 4' (H90:	•	Analyze	ed By: AC					

	,				•					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cl	hloride	48.0	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: N-S TRENCH N. WALL 2-4' (H902992-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: N-S TRENCH S. WALL 2-4' (H902992-04)

Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	

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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: KINGSLEY (KCI)

NOT GIVEN Project Location:

Sample ID: N-S TRENCH	W. WALL 2-	4' (H902992-0	5)						
Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 16 BASE	2' (H902992	2-06)							
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	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 16 E. WA	LL 0-2' (H90	2992-07)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 17 BASE 2' (H902992-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 17 E. WALL 0-2' (H902992-09)

Chloride, SM4500Cl-B	` mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/29/2019	ND	416	104	400	3.92	

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Celeg D. Keene



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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) KINGSLEY (KCI) Sample Received By: Tamara Oldaker Project Number:

Project Location: **NOT GIVEN** 

Sample ID: EC - 18 BASE	2' (H902992	<b>!-10</b> )							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 18 E. WA	LL 0-2' (H90	2992-11)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/29/2019	ND	416	104	400	3.92	

Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 19 E WALL 0-2.5' (H902992-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 20 BASE 1' (H902992-14)

Chloride, SM4500Cl-B	` mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/29/2019	ND	416	104	400	3.92	

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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: KINGSLEY (KCI)

Project Location: NOT GIVEN

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	lt Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2019	ND	416	104	400	3.92	
			Sample ID: EC - 21 BASE 1' (H902992-16)						
Sample ID: EC - 21 BASE Chloride, SM4500CI-B	: 1' (H902992 mg	-	Analyze	d By: AC					
	•	-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: EC - 21 E. WALL 1' (H902992-17)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	80.0	16.0	08/29/2019	ND	432	108	400	7.69				

### Sample ID: EC - 21 N. WALL 1' (H902992-18)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/29/2019	ND	432	108	400	7.69	

### Sample ID: EC - 22 BASE 2' (H902992-19)

Chloride, SM4500CI-B	` mg/	'kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/29/2019	ND	432	108	400	7.69	

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

 Received:
 08/29/2019
 Sampling Date:
 08/28/2019

 Reported:
 08/29/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 22 E. WALL 0-2' (H902992-20)

Sample ID: EC - 22 E. WAL	-	-							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 23 BASE	3.5' (H9029	92-21)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 24 BASE	4.5' (H9029	92-22)							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 25 BASE	4.5' (H9029	92-23)							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 26 BASE	4 5' (H9029	92-24)							
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/29/2019	ND	432	108	400	7.69	Ç

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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019

Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: EC - 27 BASE 4.5' (H902992-25)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 208 16.0 08/29/2019 ND 432 108 400 7.69

Sample ID: EC - 28 BASE 4' (H902992-26)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 64.0 16.0 08/29/2019 432 400 7.69 ND 108

Sample ID: EC - 29 BASE 4' (H902992-27)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 08/29/2019 ND 400 16.0 432 108 7.69

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Company Name: K. /. HICKS		- 1
Project Manager: Andrew Parker	P.O. #:	ANALYSIS REQUEST
Address: ON File	Company: R.T. Hicks	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address: Send to ABQ	
Project #: Project Owner:	City:	
Project Name: Advance Energy		
Project Location: Kings/ob (KI)		
KAINA N	rnone #:	
JACOB JI	Fax #:	
THE USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	AB OR (C)OMINTAINERS JINDWATER TEWATER  GE ER: BASE: COOL R:	
1 RS-01 Treach Base 9F.F	2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×	
2 NS Treach Base 4Ft	9.5	
3 N-5 Trench N. Wall 2-4Ft	25.	
4 N-S Treach S. Wall 2-4/EF	10.30	
5 N-5 Trench W. Wall 2-4Ft	70,400	
CC=16 Base 2Ft	10:50	
2 EC-16 E.Wall O-JF		
-17 Base 2F)	11:100	
	11.30	
10 EC-18 Base JET	V V V V II:30-	
analyses. All claims including those for negligence and any other cause whatsoever shall be de	analyses. All claims including those for negligence and any other cause whatspever shall be deemed waived in loss made in contract or tort, shall be limited to the amount paid by the client for the	
service. In no event shall Cardinal be lable for incidental or consequental damages, including was affiliates or successors arising out of or related to the performance of services because the consequence of the performance of services because or services because of the performance of services because or services when the performance of services because or services are serviced by the performance of services because of the performance of the	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the porformance of services however the control of the porformance of the po	
Relinquished By:  Date: Received By:	Relinquished By:  Date:  Received By:	

Relinquished By:

Time: 0905

Received By:

8-29-19

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ □ No

Add'l Phone #: Add'l Fax #:

RFN Page #1

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

10.20

497

Sample Condition
Cool Intact
Yes 7 Yes
No No

CHECKED BY: (Initials) 0

Time: Date:



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

	Character and a state of the st		AIVALIOIO	מ אחביים
1	P.O. #:			
	Company:	any: R.T. Hicks		
City: State:	Zip: Attn:			
Phone #: Fax #:	Addre	Address: Send to ABQ		
Project #: Project Owner:				
Project Name: Advance Energy	State:	Zip:		
Project Location: Kingsly (KCI)	Phone #:			
Sampler Name: 5006 Sacra	Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	de	
Lab I.D. Sample I.D.	-	R:	Chlori	
100	# CO GRO WAS SOIL OIL SLUI	DATE		
6-19 Base 2,5,		11:59am	>	
13 EC-19 E. Wall 0-2.5F.	173	W081		
14 EC-20 Base IFF		19:1000		
15 EC-20 E. Wall 0.51	[+ ]	12:30,0		
16 EC-21 Base 1Pt		1 / 13:39		
17 EC-21 E. Wall IF	+	12:4000		
18 EC-21 N. Wall IF	<i>y</i>	12,500%		
19 EC-22 Base 2F	+	1 1000		
20 EC-32 E-Wall 0-31	6+ V V	V 001:1000	<	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deeped unless made in writing and received by Cardinal within 30 days after completion of the applicable in new ways that the completion of the applicable in new ways that the contract the contract of the contract that the	dy for any claim arising whether based in contract or tort, shall be deemed walved unless made in writing and received by	be limited to the amount paid by the client to Cardinal within 30 days after completion of	or the the applicable	
out of or related to the performance of	toruging wirrout inniagon, business interruptions, loss of use, of the by Cardinal, regardless of whether such claim is based upo	or loss of profits incurred by client, its subsiding any of the above stated reasons or otherw	1	
Maisined by.	neceived by:	Fax Result:	lt: ☐ Yes ☐ No Add'I Fay #:	**

Relimquished By:

Date: Time: 9:05

Received By: Watt

Phone Result:
Fax Result:
REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

Time:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

10.20

Sample Condition
Cool Intact
Yes Yes
No No

10°

CHECKED BY: (Initials)

RFN Page#2



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

Company Name:	R. T. Hichs	BILLTO	ANALYSIS REQUEST
Project Manager:	: Andrew Parker	P.O. #:	
Address: QN	P:10	Company: R. T. Hichs	
City:	State:	Zip: Attn:	
Phone #:	Fax #:	Address: Sond to ABR	
Project #:	Project Owner:	r: City:	
Project Name:	Advance Energy	State: Zip:	
Project Location:	King5/4	Phone #:	
Sampler Name:	A	Fax #:	e
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	r.d
Lab I.D.	Sample I.D.	III	Chla
2	EC-23 Base 3.54+	100 1 8 2/3 X X X	~
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から	EC-26 Base 4.SEX	) 750pm	3
Sil		> > ·	
2	EC-28 Base 45+	2:10pm	i,
Sec.	EC-29 Base HF+	W W Asaugan	*
PLEASE NOTE: Liability a	nd Damages. Cardinal's liabiliy and client's exclusive remedy fo	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	t for the

analyses, All claims including those for inegligetics tall ally futer Lause windowers and the control of the co	equental damages, including	without limitation, business interruptions, loss of arclinal regardless of whether such claim is base	use, or loss of profits incurred by	client, its subsidiaries,				
Delinguished By:	Date://a	Received By:		Phone Result:	□ Yes	□ No	Add'I Phone #:	
Nellildustien py.	1. E/A.		0111	Fax Result:	□ Yes	□ No	Add'I Fax #:	
1000/	Time: Ar 15	Thursday 1	The state of the s	REMARKS:				
Relinguished By:	Date:	Received By:	June 9					5
	Time:					0	2 Z	rase #3
Delivered By: (Circle One)	0.20	#97 Sample Condition	CHECKED BY:			9		
Sampler - UPS - Bus - Other:	and	O CYes Tres	8					



August 29, 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 08/29/19 9:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 08/29/2019
 Sampling Date:
 08/28/2019

 Reported:
 08/29/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: RS - 01 TRENCH BASE 9' (H902992-01)

Chloride, SM4500CI-B	mg	ng/kg Analyzed By: AC		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/29/2019	ND	416	104	400	3.92	
Sample ID: N-S TRENCH B	ASE 4' (H90:	•	Analyze	ed By: AC					

	,				•					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cl	hloride	48.0	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: N-S TRENCH N. WALL 2-4' (H902992-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: N-S TRENCH S. WALL 2-4' (H902992-04)

Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) KINGSLEY (KCI) Sample Received By: Tamara Oldaker Project Number:

Project Location: **NOT GIVEN** 

Sample ID: N-S TRENCH	W. WALL 2-	4' (H902992-0	5)						
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	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 16 BASE	2' (H902992	2-06)							
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	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 16 E. WA	LL 0-2' (H90	2992-07)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					

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	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 17 BASE 2' (H902992-08)

Chloride, SM4500Cl-B	` mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 17 E. WALL 0-2' (H902992-09)

Chloride, SM4500Cl-B	`mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/29/2019	ND	416	104	400	3.92	

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Celeg D. Keene



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

Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) KINGSLEY (KCI) Sample Received By: Tamara Oldaker Project Number:

Project Location: **NOT GIVEN** 

Sample ID: EC - 18 BASE	2' (H902992	<b>!-10</b> )							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 18 E. WA	LL 0-2' (H90	2992-11)							
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/29/2019	ND	416	104	400	3.92	

Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 19 E WALL 0-2.5' (H902992-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/29/2019	ND	416	104	400	3.92	

### Sample ID: EC - 20 BASE 1' (H902992-14)

Chloride, SM4500Cl-B	` mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/29/2019	ND	416	104	400	3.92	

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Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019 Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: KINGSLEY (KCI)

Project Location: NOT GIVEN

Chloride, SM4500CI-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	08/29/2019	ND	416	104	400	3.92	
Sample ID: EC - 21 BASE Chloride, SM4500CI-B	: 1' (H902992 mg	-	Analyze	d By: AC					
	•	-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Sample ID: EC - 21 E. WALL 1' (H902992-17)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/29/2019	ND	432	108	400	7.69	

### Sample ID: EC - 21 N. WALL 1' (H902992-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/29/2019	ND	432	108	400	7.69	

### Sample ID: EC - 22 BASE 2' (H902992-19)

Chloride, SM4500CI-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	08/29/2019	ND	432	108	400	7.69	

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

 Received:
 08/29/2019
 Sampling Date:
 08/28/2019

 Reported:
 08/29/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC - 22 E. WALL 0-2' (H902992-20)

Sample ID: EC - 22 E. WAL	-	-							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 23 BASE	3.5' (H9029	92-21)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 24 BASE	4.5' (H9029	92-22)							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 25 BASE	4.5' (H9029	92-23)							
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	08/29/2019	ND	432	108	400	7.69	
Sample ID: EC - 26 BASE	4 5' (H9029	92-24)							
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/29/2019	ND	432	108	400	7.69	Ç

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

Fax To: NONE

Received: 08/29/2019 Sampling Date: 08/28/2019

Reported: 08/29/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KINGSLEY ( KCI ) Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: EC - 27 BASE 4.5' (H902992-25)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 208 16.0 08/29/2019 ND 432 108 400 7.69

Sample ID: EC - 28 BASE 4' (H902992-26)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 64.0 16.0 08/29/2019 432 400 7.69 ND 108

Sample ID: EC - 29 BASE 4' (H902992-27)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 08/29/2019 ND 400 16.0 432 108 7.69

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



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

Company Name: K. I. HICKS		- 1
Project Manager: Andrew Parker	P.O. #:	ANALYSIS REQUEST
Address: ON File	Company: R.T. Hicks	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address: Send to ABA	
Project #: Project Owner:	City:	
Project Name: Advance Energy		
Project Location: Kings/ph (KI)		
A ALAN A	Fnone #:	
Sampler Name: SHCOB SHENC	Fax #:	
TOR LABORE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	AB OR (C)OMINTAINERS JINDWATER FEWATER  GE R: BASE: COOL R:	
1 RS-01 Treach Rage 9F.	G W S O O A A I I I I I I I I I I I I I I I I	
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10 EC-18 Base JET	V 5	
analyses. All claims including those for negligence and any other cause whatsnever shall be do	analyses. All claims including those for negligence and any other cause whatsnewer shall be deeped watered in contract or tort, shall be limited to the amount paid by the client for the	
service. In no event shall Cardinal be flable for incidental or consequental damages, including waffiliates or successors arising out of or reliable for incidental or consequental damages, including waffiliates or successors arising out of or reliable for the neofformance of continue.	service. In no event shall Cardinal be lable for incidental or consequent datasee whatesoe shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the cardinance of consequence of the applicable affiliates or successors arising out of or related to the cardinance of consequence.	
Relinquished By:  Date: Received By:	Relinquished By:  Date:  Received By:  Received By:  Received By:	

Relinquished By:

Time: 0905

Received By:

8-29-19

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ □ No

Add'l Phone #: Add'l Fax #:

RFN Page #1

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

10.20

497

Sample Condition
Cool Intact
Yes 7 Yes
No No

CHECKED BY: (Initials) 0

Time: Date:



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

	Character and a state of the st		AIVALIOIO	מ אחביים
1	P.O. #:			
	Company:	any: R.T. Hicks		
City: State:	Zip: Attn:			
Phone #: Fax #:	Addre	Address: Send to ABQ		
Project #: Project Owner:				
Project Name: Advance Energy	State:	Zip:		
Project Location: Kingsly (KCI)	Phone #:			
Sampler Name: 5006 Sacra	Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	de	
Lab I.D. Sample I.D.	-	R:	Chlori	
100	# CO GRO WAS SOIL OIL SLUI	DATE		
6-19 Base 2,5,		11:59am	>	
13 EC-19 E. Wall 0-2.5F.	173	W081		
14 EC-20 Base IFF		19:1000		
15 EC-20 E. Wall 0.51	[+ ]	12:30,0		
16 EC-21 Base 1Pt		1 / 13:39		
17 EC-21 E. Wall IF	+	12:4000		
18 EC-21 N. Wall IF	<i>y</i>	12,500%		
19 EC-22 Base 2F	+	1 1000		
20 EC-32 E-Wall 0-31	6+ V V	V 001:1000	<	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deeped unless made in writing and received by Cardinal within 30 days after completion of the applicable in new ways that the completion of the applicable in new ways that the contract the contract of the contract that the	dy for any claim arising whether based in contract or tort, shall be deemed walved unless made in writing and received by	be limited to the amount paid by the client to Cardinal within 30 days after completion of	or the the applicable	
out of or related to the performance of	toruging wirrout inniagon, business interruptions, loss of use, of the by Cardinal, regardless of whether such claim is based upo	or loss of profits incurred by client, its subsiding any of the above stated reasons or otherw	1	
Maisined by.	neceived by:	Fax Result:	lt: ☐ Yes ☐ No Add'I Fay #:	**

Relimquished By:

Date: Time: 9:05

Received By: Watt

Phone Result:
Fax Result:
REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

Time:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

10.20

Sample Condition
Cool Intact
Yes Yes
No No

10°

CHECKED BY: (Initials)

RFN Page#2



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

Company Name:	R. T. Hichs	BILLTO	ANALYSIS REQUEST
Project Manager:	: Andrew Parker	P.O. #:	
Address: QN	P:10	Company: R. T. Hichs	
City:	State:	Zip: Attn:	
Phone #:	Fax #:	Address: Sond to ABR	
Project #:	Project Owner:	r: City:	
Project Name:	Advance Energy	State: Zip:	
Project Location:	King5/4	Phone #:	
Sampler Name:	A	Fax #:	e
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	r.d
Lab I.D.	Sample I.D.	III	Chla
2	EC-23 Base 3.54+	100 1 8 2/3 X X X	~
N.	_	1:30,7	
מט	base	1.4004	3
から	EC-26 Base 4.SEX	) 750pm	3
Sil		> > ·	
2	EC-28 Base 45+	2:10pm	i,
Sec.	EC-29 Base HF+	W W Asaugan	*
PLEASE NOTE: Liability a	nd Damages. Cardinal's liabiliy and client's exclusive remedy fo	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	t for the

analyses, All claims including those for inegligetics tall ally futer Lause windowers and the control of the co	equental damages, including	without limitation, business interruptions, loss of arclinal regardless of whether such claim is base	use, or loss of profits incurred by	client, its subsidiaries,				
Delinguished By:	Date://a	Received By:		Phone Result:	□ Yes	□ No	Add'I Phone #:	
Nellildustien py.	1. E/A.		0111	Fax Result:	□ Yes	□ No	Add'I Fax #:	
1000/	Time: Ar 15	Thursday 1	The state of the s	REMARKS:				
Relinguished By:	Date:	Received By:	June 9					5
	Time:					0	2 Z	rase #3
Delivered By: (Circle One)	0.20	#97 Sample Condition	CHECKED BY:			9		
Sampler - UPS - Bus - Other:	and	O CYes Tres	8					



August 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 08/28/19 8:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 08/28/2019
 Sampling Date:
 08/27/2019

 Reported:
 08/28/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: N-N TRENCH N. WALL 0-3' (H902960-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/28/2019 ND		432	108	400	7.69	
Sample ID: N-N TRENCH	E. WALL 0-3' (	(H902960-02)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/28/2019	ND	432	108	400	7.69	
Sample ID: N-N TRENCH		(H902960-03)							
•		•	Analyze	d By: CK					
•	S. WALL 0-3' (	•	<b>Analyze</b> Analyzed	d By: CK  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: N-N TRENCH Chloride, SM4500Cl-B  Analyte Chloride	S. WALL 0-3' (	/kg	-	-	BS 432	% Recovery	True Value QC 400	RPD 7.69	Qualifier
Chloride, SM4500CI-B  Analyte	S. WALL 0-3' ( mg Result 112	Reporting Limit	Analyzed 08/28/2019	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride	S. WALL 0-3' ( mg Result 112	Reporting Limit 16.0 (H902960-04)	Analyzed 08/28/2019	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: N-N TRENCH	S. WALL 0-3' (  mg  Result  112  W. WALL 0-3'	Reporting Limit 16.0 (H902960-04)	Analyzed 08/28/2019	Method Blank ND		,	•		Qualifier

### Cardinal Laboratories \*=Accredited Analyte

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



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

Received: 08/28/2019 Sampling Date: 08/27/2019

Reported: 08/28/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: N-S TRENCH E. WALL 0-3' (H902960-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2019	ND	432	108	400	7.69	

### Sample ID: N-N TRENCH BASE 3' (H902960-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/28/2019	ND	400	100	400	0.00	QM-07

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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



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

Company Name:	ER.T. HICKS		0717113	The second secon		
Project Manager:	er: Andrew Parker		P.O. #:	The restrict of the state of th	מואר המואר ה	
Address: 0 /	N ESTE		Company: RT H:	15 KS		
City:	State:	Zip:	Attn: Mail to	480		
Phone #:	Fax #:	1	ess:			
Project #:	Project Owner:		City:			
Project Name:	Adavance Energy		State: Zip:			
Project Location:	KINGSLE		#			
Sampler Name:	JALOB SAENZ		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	3 OR (C)OMP. TAINERS NDWATER EWATER	ASE; OOL	Chlorid		
H902960		# COI GROI	OTHE ACID/ ICE/( OTHE	TIME		
	VIrench	×	1 8/27	12 pm V		
12	N-N Trench E. WALL O-SFT			13,1000		
.(1)			Name of the second	12:200		
1-6	1 yours		W	13:30/0		
2	N-> 1 couch E.Wall 0-3++	4	V	12 49m		
6	N'N Trench Base 3H+	X	× 8/37	17:50/1 1		
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's explusive remodu for an					
analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	those for negligence and any other ca final be liable for incidental or conseq out of or related to the performance o	y claim arising whether based in contra semed waived unless made in writing a without limitation, business interruptions irdinal, regardless of whether such clain	ot or tort, shall be limited to the amount p nd received by Cardinal within 30 days a , loss of use, or loss of profits incurred b n is based upon any of the above stated	ald by the client for the first completion of the applicable yellow, its subsidiaries,	-	
Relinquished By:	Date: 8/28	Received By:	0011	ılt: □ Yes		
J.	Time: 8:35	y Oxernal	Whates	REMARKS:	□ No Add'I Fax #:	

Refinquished By:

Date: Time:

Time: 8:35

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

0.60

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:
(Initials)



August 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 08/27/19 9:25.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 08/27/2019
 Sampling Date:
 08/26/2019

 Reported:
 08/28/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: EC 14 S. WALL 1.3-4' (H902938-01)

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	08/28/2019	ND	432	108	400	0.00	
Sample ID: EC 15 S. WA	ALL 0-1.3' (H90	02938-02)							
Chloride, SM4500CI-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	08/28/2019	ND	432	108	400	0.00	

### Sample ID: EC 15 E. WALL 0-1.3' (H902938-03)

Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2019	ND	432	108	400	0.00	

### Sample ID: EC 15 W. WALL 0-1.3' (H902938-04)

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	08/28/2019	ND	432	108	400	0.00		

Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

Received: 08/27/2019 Sampling Date: 08/26/2019

Reported: 08/28/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: **KINGSLY** 

Project Location: **NOT GIVEN** 

### Sample ID: EC 15 BASE 1.3' (H902938-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2019	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Company Name: K.T. Hich S	BILL TO	ANALYSIS REQUEST
Project Manager: Andrew Packer	P.O. 井:	- 1
Address: ON File	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	wner: City:	
Project Name: Advance Energy	State: Zip:	
Project Location: Kings/4	Phone #:	
Sampler Name: Sacab Saca 2	Fax#:	
FOR LAB USE DNLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chiopia
EL 14 S. WALL	× ×	
2 EC15 5. WALL 0-1.3FF		
ECIS E. Wall		
4 EC 15 WWW 0-13F+		
SECIS BASE 1.3F	F+ W 10:1000 W	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive rem	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the	

Relinquished By: analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Sampler - UPS - Bus - Other: Corrected 0.4 Relifiquished By: Delivered By: (Circle One) 0.00 SZEGIII. Time: Date: Bate: 27-19 なな Received By: Received By: Sample Condition
Cool Intact
Ges Yes
No No CHECKED BY: (Initials) 10 Fax Result: REMARKS: Phone Result: ☐ Yes No No Add'l Phone #: Add'l Fax #:



July 10, 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 07/09/19 16:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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:
 07/09/2019
 Sampling Date:
 07/09/2019

 Reported:
 07/10/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: ML - 01 0' (H902344-01)

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	07/10/2019	ND	432	108	400	3.77	
Sample ID: ML - 01 2' (H	902344-02)								
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	07/10/2019	ND	432	108	400	3.77	
Sample ID: ML - 02 0' (H	902344-03)								
	mg/kg								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Chloride, SM4500CI-B  Analyte	Result	/kg  Reporting Limit	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B  Analyte  Chloride			•		BS 432	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Analyte  Chloride	Result 32.0	Reporting Limit	Analyzed	Method Blank		,	·		Qualifier
Analyte  Chloride  Sample ID: ML - 02 2' (H	Result 32.0	Reporting Limit	Analyzed 07/10/2019	Method Blank		,	·		Qualifier
Analyte	Result 32.0 902344-04)	Reporting Limit	Analyzed 07/10/2019	Method Blank ND		,	·		Qualifier

Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

Received: 07/09/2019 Sampling Date: 07/09/2019

Reported: 07/10/2019 Sampling Type: Soil
Project Name: ADVANCE ENERGY Sampling Condition: \*\* (

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: ML - 03 0' (H902344-05)

			d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	07/10/2019	ND	432	108	400	3.77	
2344-06)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	07/10/2019	ND	432	108	400	3.77	
2344-07)								
-	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	07/10/2019	ND	432	108	400	3.77	
2344-08)								
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	07/10/2019	ND	432	108	400	3.77	
2344-09)								
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	16.0	07/10/2019	ND	432	108	400	3.77	
2	32.0 2344-06) mg Result 16.0 2344-07) mg Result <16.0 2344-08) mg Result 16.0 2344-09) mg	32.0 16.0  2344-06)  mg/kg  Result Reporting Limit  16.0 16.0  2344-07)  mg/kg  Result Reporting Limit  <16.0 16.0  2344-08)  mg/kg  Result Reporting Limit  <16.0 16.0  2344-08)  mg/kg  Result Reporting Limit  16.0 16.0	32.0 16.0 07/10/2019  2344-06)  mg/kg  Result Reporting Limit Analyzed  16.0 16.0 07/10/2019  2344-07)  mg/kg  Result Reporting Limit Analyzed  <16.0 16.0 07/10/2019  2344-08)  mg/kg  Result Reporting Limit Analyzed  <16.0 16.0 07/10/2019  2344-08)  mg/kg  Analyzed  16.0 16.0 07/10/2019  2344-09)  mg/kg  Analyzed   32.0 16.0 07/10/2019 ND  2344-06)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank 16.0 16.0 07/10/2019 ND  2344-07)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank <16.0 16.0 07/10/2019 ND  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank <16.0 16.0 07/10/2019 ND  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank 16.0 16.0 07/10/2019 ND	32.0 16.0 07/10/2019 ND 432  2344-06)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS  16.0 16.0 07/10/2019 ND 432  2344-07)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS  <16.0 16.0 07/10/2019 ND 432  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS  16.0 16.0 07/10/2019 ND 432  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS  16.0 16.0 07/10/2019 ND 432	32.0 16.0 07/10/2019 ND 432 108  2344-06)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 16.0 07/10/2019 ND 432 108  2344-07)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery <16.0 16.0 07/10/2019 ND 432 108  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery <16.0 16.0 07/10/2019 ND 432 108  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 16.0 07/10/2019 ND 432 108	32.0 16.0 07/10/2019 ND 432 108 400  2344-06)     mg/kg	32.0 16.0 07/10/2019 ND 432 108 400 3.77  2344-06)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 16.0 07/10/2019 ND 432 108 400 3.77  2344-07)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <16.0 16.0 07/10/2019 ND 432 108 400 3.77  2344-08)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 16.0 07/10/2019 ND 432 108 400 3.77  2344-08)  mg/kg  Analyzed By: AC	

### Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

Received: 07/09/2019 Sampling Date: 07/09/2019

Reported: 07/10/2019 Sampling Type: Soil
Project Name: ADVANCE ENERGY Sampling Condition: \*\*(

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: ML - 05 2' (H902344-10)

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	07/10/2019	ND	432	108	400	3.77	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

	ANALYSIS KECCES
P.O. #:	
RT	
1	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	
MATRIX PRESERV. SAMPLING	
DGE ER: /BASE: COOL ER:	Chloride
SL OT AC OT DATE	*
04:0]	
Sh:01	
6:01	
55:01	
αD: M	
50:11	
01:11	
2 4 1015	Se
	WASTEWATER  WASTEWATER  SOIL  OIL  SLUDGE  OTHER:  ACID/BASE:  ACID/BASE:  ACID/BASE:  TIME  TIME  TIME  10:35  10:45  10:56  TIME

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
No No

ig

CHECKED BY: (Initials)

Delivered By: (Circle One)

Relinquished By:

Date: 7/9
Time: 16:30

Received By:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

Date: Time: Relinquished By:



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 06/28/19 9:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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: 06/28/2019 Sampling Date: 06/27/2019

Reported: 06/28/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KCI Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: RS - 01 TRENCH BASE 9' (H902229-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/28/2019	ND	400	100	400	3.92	
Sample ID: EC - 12 S. WA	LL 0-4' (H90	2229-02)							
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	06/28/2019	ND	400	100	400	3.92	
Sample ID: EC - 13 S. WA	LL 0-4' (H90	2229-03)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/28/2019	ND	400	100	400	3.92	
Sample ID: EC - 14 S. WA	LL 0-4' (H90	2229-04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Cardinal Laboratories \*=Accredited Analyte

ND

400

100

400

3.92

06/28/2019

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Celey D. Keine

Chloride

752

16.0



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Company Name:	RT Histo Contat	The state of the s	814470	ANALYSIS REQUEST
Project Manager:	Andrew Par	P.O. #:	to the second se	- 1
Address:		Company:	1: PT Hicks	
City:	State:	Zip: Attn:	hail to	
Phone #:	Fax #:	Address:	150 office	
Project #:	Project Owner:	City:		
Project Name:	Advance Energy	State:	Zip:	
Project Location:	KC I	Phone #:		
Sampler Name:	Andrew Parlor	Fax #:		
FOR LAB USE ONLY		MATRIX PRESERV	ERV. SAMPLING	
Lab I.D. H <i>9</i> 02229	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER: DATE TIME	Chloride
_	RS-0) Trench Base 9FT	CIX	6-27-19 15:15	×
2		C		
w	EC-13 S, WALL O-4FT	0	15:25	
t	EC- 14 S, WALL 0-4FT	0		×
PLEASE NOTE: Liability and	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	any claim arising whether based in contract or tort, shall be	imited to the amount paid by the client for the	
analyses. All claims including	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	deemed waived unless made in writing and received by Ca	dinal within 30 days after completion of the ap	pplicable

Relinquished By:

Enia Mostra

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

20.00

1492

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

PENNN

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

| Date: | Phone Result: | Fax Result: | REMARKS: | REMARKS: | service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries

h show

□ Yes

□ No Add'I Phone
□ No Add'I Fax#:

Add'l Phone #:

Time: 07: 00 Date 4 6 /28/19 Time: 50

Received By:



June 27, 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 06/27/19 8:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. 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:
 06/27/2019
 Sampling Date:
 06/26/2019

 Reported:
 06/27/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact

Project Number: KCI Sample Received By: Tamara Oldaker
Project Location: NOT GIVEN

Sample ID: HA - 01 0-3' (H902201-01)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Result Chloride 1710 16.0 06/27/2019 ND 416 104 400 0.00

Sample ID: HA - 01 3-4' (H902201-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 832 16.0 06/27/2019 ND 416 104 400 0.00

Sample ID: HA - 02 0-2' (H902201-03)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 160 16.0 06/27/2019 400 0.00 ND 416 104

Sample ID: HA - 02 2-4' (H902201-04)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte Result Chloride 48.0 16.0 06/27/2019 ND 416 104 400 0.00

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Fax To: NONE

Received: 06/27/2019 Sampling Date: 06/26/2019

Reported: 06/27/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: Sample Received By: KCI Tamara Oldaker

NOT GIVEN Project Location:

Sample ID: RS - 07 N. WALL	_ 0-4' (H90	) <b>2201-05</b> )							
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/27/2019	ND	416	104	400	0.00	
Sample ID: RS - 08 N. WALL	_ 0-4' (H90	)2201-06)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/27/2019	ND	416	104	400	0.00	

### Sample ID: EC - 06 N. WALL 0-4' (H902201-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/27/2019	ND	416	104	400	0.00	

### Sample ID: EC - 06 E. WALL 0-4' (H902201-08)

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	06/27/2019	ND	416	104	400	0.00	

### Sample ID: EC - 12 S. WALL 0-3' (H902201-09)

Chloride, SM4500Cl-B	` mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/27/2019	ND	416	104	400	0.00	

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Celeg D. Keene



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

Fax To: NONE

Received: 06/27/2019 Sampling Date: 06/26/2019

Reported: 06/27/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: EC - 11 S. WALL 0-3' (H902201-10)

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 06/27/2019 ND 416 104 400 0.00

Sample ID: EC - 13 S. WALL 0-3' (H902201-11)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank % Recovery Qualifier Chloride 400 16.0 06/27/2019 416 400 0.00 ND 104

Sample ID: EC - 14 S. WALL 0-3' (H902201-12)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 880 06/27/2019 ND 400 0.00 16.0 416 104

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Celeg D. Freene



# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company Name: RT Hicks Consult to	8/11/70	ANALYSIS REQUEST
	P.O. #:	
	Company: RT Hicks	
City: State:		
Phone #: Fax #:	Address: Mail to ABQ	
Project #: Project Owner:	City:	
Project Name: Advance Energy	State: Zip:	
Project Location: kC1	Phone #:	
Sampler Name: And rew Party	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	R: BASE: COOL	loride
0	# CON GROU WAST SOIL OIL SLUDG OTHER ACID/E	-
2 HA-01 0-3 FT	80:11 bi-96:7	
3 NA-02 0-2 FT	O:h!	
4 HA-02 2-4 FT	31.41	
5 RS-07 N.WALL 0-4 FT	14:20	
6 RS-08 NWALL O-4FT	\$1:41	
7 EC-06 N.WALL O-4FT	€: h(	
8 5 C- 06 E, WALL 0-4 PT	14:35	
9 EC-12 SWALL 0-3FT		
16 EC-11 S.WALL 0-317	54.41	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the armount of the contract of the contrac	PLEASE NOTE: Liability and Camages, Continat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client to the analyses. All clients in cliently and the critical paid in the client of the analyses. All clients in cliently and the critical paid in the client of t	for the

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clean it, its substitutions affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Received By:

Received By:

I services hereunder by Cardinal, regardless of whether such claim is based upon any of the a control of the co

Phone Result:
Fax Result:
REMARKS:

☐ Yes

□ □ □

Add'l Phone #: Add'l Fax #:

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

١

30.00

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Page 12

Time: Date: Time: 45

Received By:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hrcks		ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	: City:	
Project Name: A 2vance Energy	State: Zip:	
	#	
Sampler Name: Andrew Parker	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	LING
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME Chloride
11 EC-13 SWALL 0-3 FT		X 4:51
14 23 - M		
12 EC-14 S. WALL 0-3 FT	C 1 X X 6.26	X 21:51
PLEASE NOTE: Liability and Damages. Cardinal's leability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other paids whatenower shall be described in the client for the	y claim arising whether based in contract or tort, shall be limited to the amount p	paid by the client for the
new year. An usual in the state of the state	eemed waved unless made in writing and received by Cardinal within 30 days a without limitation, business interruptions, loss of use, or loss of profits incurred by ardinal, regardless of whether such claim is based upon any of the above stated.	plicat
Relinquished by:	Received By:	Phone Result:
Time: us	human Milkel	

Relinquished By:

lelig or

Time: 08:45 Date: Time:

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

3.30

Sample Condition
Cool Intact
Yes 7es

CHECKED BY: (Initials)

REN

Page 2/2

Ø



June 26, 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 06/26/2019 Sampling Date: 06/25/2019

Reported: 06/26/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: G 1 E WALL 0-2' (H902173-01)

Chloride, SM4500Cl-B	` mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/26/2019	ND	416	104	400	0.00	
Sample ID: G 1 BASE 2'	(H902173-02)	)							
Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

416

104

400

0.00

## Sample ID: G 1 W WALL 0-2' (H902173-03)

16.0

16.0

Chloride

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	06/26/2019	ND	416	104	400	0.00	

06/26/2019

# Sample ID: G 2 BASE 2' (H902173-04)

Chloride, SM4500CI-B	oride, 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	06/26/2019	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	RT Hicks		BILL TO	ANALYSIS	S REQUEST
Project Manager:	Andrew Parker		P.O. #:		- 1
Address:			Company: QT Hicks		
City:	State:	Zip:	Attn:		
Phone #:	Fax #:		Address: May to ABQ		
Project #:	Project Owner:				
Project Name: /	Advance Energy		State: Zip:		
Project Location:			Phone #:		
Sampler Name:	Antrew Parker		Fax #:		
FOR LAB USE ONLY	A STATE OF THE PARTY OF THE PAR	MATRIX	PRESERV. SAMPLING	e	
Lab I.D. 14902,173	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chlorid	
16	1 E WALL 0-2 FT	C 1 ×	× 6.25.19 16:00	×	
2 61	1 Base 2 FT		16:10	0	
3	1>		16:20	8	
	62 Base 2 FT	*	16:30	8	
PLEASE NOTE: Liability and Dame	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	y claim arising whether based in contract of	or tort, shall be limited to the amount paid by the clie	ant for the	

Relinquished By: service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions; loss of use, or loss of profits incurred by client, its subsidiaries, Reclinquished By:

| Reclinquished By: | Date: | Received By: | Sampler - UPS - Bus - Other: Delivered By: (Circle One) Time 08:30 Date: 26-14 Time: Date: Received By: Sample Condition
Cool Intact
Pes Pes
No No CHECKED BY: (Initials) Phone Result:
Fax Result:
REMARKS: ☐ Yes □ □ No Add'I Fax #: Add'l Phone #:



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 9:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 Project: ADVANCE ENERGY

Reported:

Project Number: KCI

25-Jun-19 10:57

ALBUQUERQUE NM, 87104

Project Manager: ANDREW PARKER

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
	U0021E2 01	0.11	22-Jun-19 10:00	04 1 40 00 50
G 3 BASE 3.5'	H902153-01	Soil	0 10 10.00	24-Jun-19 09:50
G4 BASE 3'	H902153-02	Soil	22-Jun-19 10:15	24-Jun-19 09:50
G 7 E. WALL 0-3'	H902153-03	Soil	22-Jun-19 10:30	24-Jun-19 09:50
G 8 E. WALL 0-2.5'	H902153-04	Soil	22-Jun-19 11:00	24-Jun-19 09:50
G 14 BASE 4'	H902153-05	Soil	22-Jun-19 11:15	24-Jun-19 09:50
G 14 N. WALL 0-4'	H902153-06	Soil	22-Jun-19 11:30	24-Jun-19 09:50
G 16 BASE 4'	H902153-07	Soil	22-Jun-19 13:00	24-Jun-19 09:50
G 16 N. WALL 0-4'	H902153-08	Soil	22-Jun-19 13:30	24-Jun-19 09:50
EC -09 W. WALL 0-4'	H902153-09	Soil	22-Jun-19 13:45	24-Jun-19 09:50
EC -10 W. WALL 0-4'	H902153-10	Soil	22-Jun-19 15:00	24-Jun-19 09:50

Client revised the sample ID of -08 from E. to N. See COC. This is the revised report and will replace the one sent earlier 06/25/19.

Cardinal Laboratories \*=Accredited Analyte

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 25-Jun-19 10:57

rax IO. NONE

G 3 BASE 3.5' H902153-01 (Soil)

A	nalyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
Inc	Inorganic Compounds										
Chl	oride	<16.0		16.0	mg/kg	4	9062501	AC	25-Jun-19	4500-Cl-B	

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25-Jun-19

Reported:

4500-Cl-B

25-Jun-19 10:57



32.0

# **Analytical Results For:**

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

Chloride

Project: ADVANCE ENERGY

9062501

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G4 BASE 3' H902153-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compo	unds		Cardi	nal Labor	atories					

mg/kg

16.0

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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: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 7 E. WALL 0-3' H902153-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	l Laborato	ries					

 Inorganic Compounds

 Chloride
 <16.0</td>
 16.0
 mg/kg
 4
 9062501
 AC
 25-Jun-19
 4500-C1-B

Cardinal Laboratories \*=Accredited Analyte

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 8 E. WALL 0-2.5' H902153-04 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	l Laborato	ories					
	Inorganic Compounds										
(	Chloride	<16.0		16.0	mg/kg	4	9062501	AC	25-Jun-19	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 14 BASE 4' H902153-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	16.0		16.0	mg/kg	4	9062501	AC	25-Jun-19	4500-Cl-B		

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 14 N. WALL 0-4' H902153-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					

 Inorganic Compounds

 Chloride
 <16.0</td>
 16.0
 mg/kg
 4
 9062501
 AC
 25-Jun-19
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

DE BLVD SUITE F-142 Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 16 BASE 4' H902153-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					

 Inorganic Compounds

 Chloride
 48.0
 16.0
 mg/kg
 4
 9062501
 AC
 25-Jun-19
 4500-Cl-B

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

Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

G 16 N. WALL 0-4' H902153-08 (Soil)

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	9062501	AC	25-Jun-19	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

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Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Reported: 25-Jun-19 10:57

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

EC -09 W. WALL 0-4' H902153-09 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Reporting							

## **Cardinal Laboratories**

 Inorganic Compounds

 Chloride
 16.0
 16.0
 mg/kg
 4
 9062501
 AC
 25-Jun-19
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

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25-Jun-19



48.0

# Analytical Results For:

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

Chloride

Project: ADVANCE ENERGY

9062501

Reported: 25-Jun-19 10:57

4500-Cl-B

Project Number: KCI

16.0

Project Manager: ANDREW PARKER

Fax To: NONE

EC -10 W. WALL 0-4' H902153-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										

mg/kg

Cardinal Laboratories \*=Accredited Analyte

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R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY

Project Number: KCI

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 25-Jun-19 10:57

# **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9062501 - 1:4 DI Water										
Blank (9062501-BLK1)				Prepared &	Analyzed:	25-Jun-19				
Chloride	ND	16.0	mg/kg							
LCS (9062501-BS1)				Prepared &	z Analyzed:	25-Jun-19				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9062501-BSD1)				Prepared &	Analyzed:	25-Jun-19				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

Cardinal Laboratories \*=Accredited Analyte

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



# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		REMARKS:		A Part	0	muse	3	Y .	Ilme:	and a	hadrifaki
	□ Yes	Fax Result:	1	1			-		6.24.14	2	)
□ No Add'! Phone 件·	□ Yes	Phone Result:		)		By:	Received By:	Rece	Date:	у:	Relinquished By:
		easons or otherwise	s of profits incurred by	oss of use, or loss based upon any	erruptions, I	usiness int	ardless o	vithout lin	Service. In the event shall calculate the lable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	sing out of or related to the	affiliates or successors ari
	pplicable	aid by the client for the ter completion of the a	nited to the amount p final within 30 days at	or lort, shall be lir received by Card	writing and	ss made in	ived unle	emed wa	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	ling those for negligence a	analyses. All claims include
	¥	15:00 B	_ Z_	e		<	_	4	EC-10 W, WALL 0-4F7	10-10	DI FACE NOTE: ISANT
		13:45							WWALL O-4FT	1.60-23	7
		13:30					319	54	EWALL O-4 FT	616	) 00
		13:00							BASE 4 FT	616	7
		Æ: 11							NWALL C-4FT	614 NW	6
		St. 11							BASE 4 FT		5
		11:00							E.WALL 0-25 FT	1	0
		10:30							EWALL 0-3 PT	67 EV	, co
		10:15							Base 34 FT		. 2
	メ	10:00	6.22-19	×		×		0		( ~)	1_
	Chloride	TIME	OTHER:	OTHER : ACID/BASE: ICE / COOL	OIL SLUDGE	WASTEWATER SOIL	GROUNDWATER	(G)RAB OR (C)OMP # CONTAINERS	Sample I.D.	Sar	Lab I.D.
		LING	RV. SAMPLING	PRESERV.	MATRIX	MA	T	).			FOR LAB USE ONLY
				Fax #:					Parker	: Andrew Parker	Sampler Name:
				Phone #:							Project Location:
			Zip:	State:					Eneral	Advance Encry	Project Name:
				City:					Project Owner:		Project #:
		48Q	rail to	Address:					Fax #:		Phone #:
		,		Attn:				Zip:	State:		City:
		ks	1: RT Hicks	Company: 2T						のったって	Address: o
				P.O. #:					Andraw Parker		Project Manager:
ANALYSIS REQUEST			BILL TO						its Consultats	1	Company Name.

Relinquished By:

andrulah

Date: 6-24-19
Time: 69:50
Date:

Received By:

lamara a

Push!!

Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

大い

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)



June 21, 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 06/20/19 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 06/20/2019 Sampling Date: 06/20/2019

Reported: 06/21/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: BERM #1 (H902137-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/21/2019	ND	416	104	400	0.00	
Sample ID: BERM #2 (H9	02137-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
		16.0	06/21/2010	ND	416	104	400	0.00	
Chloride	304	16.0	06/21/2019	ND	110	101	100	0.00	
Sample ID: RS - 04 N. W.		2137-03)		d By: AC	110	101	100	0.00	
Sample ID: RS - 04 N. W. Chloride, SM4500Cl-B Analyte	ALL 0-4' (H90	2137-03)			BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: RS - 04 N. W.	ALL 0-4' (H90	<b>2137-03)</b> /kg	Analyze	d By: AC					Qualifier
Sample ID: RS - 04 N. W. Chloride, SM4500Cl-B Analyte	ALL 0-4' (H90 mg, Result 80.0	2137-03) /kg Reporting Limit 16.0	Analyze Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: RS - 04 N. W. Chloride, SM4500Cl-B  Analyte Chloride	ALL 0-4' (H90 mg, Result 80.0	2137-03) /kg  Reporting Limit 16.0	Analyzed  O6/21/2019	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: RS - 04 N. W. Chloride, SM4500Cl-B  Analyte  Chloride  Sample ID: RS - 04 W. W.	ALL 0-4' (H90 mg, Result 80.0	2137-03) /kg  Reporting Limit 16.0	Analyzed  O6/21/2019	d By: AC  Method Blank  ND	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories \*=Accredited Analyte

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

400

0.00



# Analytical Results For:

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

Fax To: NONE

Received: 06/20/2019 Sampling Date: 06/20/2019

Reported: 06/21/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KCI Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: EC - 08 W. WALL 0-2' (H902137-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/21/2019	ND	416	104	400	0.00	
Sample ID: RS - 05 N. WA	ALL 0-4' (H90	2137-06)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

06/21/2019

# Sample ID: RS - 06 N. WALL 0-4' (H902137-07)

32.0

16.0

Chloride

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	06/21/2019	ND	416	104	400	0.00	

ND

416

104

## Sample ID: RS - 07 N. WALL 0-4' (H902137-08)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	06/21/2019	ND	416	104	400	0.00	

## Sample ID: RS - 08 N. WALL 0-4' (H902137-09)

Chloride, SM4500CI-B	` mg	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	06/21/2019	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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

Fax To: NONE

Received: 06/20/2019 Sampling Date: 06/20/2019

Reported: 06/21/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: KCI

NOT GIVEN Project Location:

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/21/2019	ND	416	104	400	0.00	
Sample ID: RS - 01 E. WAL	.L 5-8' (H90	2137-11)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	06/21/2019	ND	416	104	400	0.00	

## Sample ID: RS - 01 W. WALL 5-8' (H902137-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/21/2019	ND	416	104	400	0.00	

## Sample ID: RS - 01 S. WALL 5-8' (H902137-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/21/2019	ND	416	104	400	0.00	

## Sample ID: RS - 01 N. WALL 5-8' (H902137-14)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/21/2019	ND	416	104	400	0.00	

## Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



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

Fax To: NONE

Received: 06/20/2019 Sampling Date: 06/20/2019

Reported: 06/21/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: KCI

Project Location: NOT GIVEN

# Sample ID: RS - 01 BASE 8' (H902137-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/21/2019	ND	416	104	400	0.00	

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# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hicks Sa Consulting by	<b>B</b> /	8/11/0	ANALYSIS REQUEST
Project Manager: Andrew Parker	P.O. #:		
	Company: RT	RT Hicks	
City: State: Z	Zip: Attn:		
Phone #: Fax #:	Address: ma:1	a:1 to ABQ	
Project #: Project Owner:	City:	8 PPICC	
Project Name: Advance Energy	State:	Zip:	
	Phone #:		
Sampler Name: Andrew Parker	Fax #:		
	MATRIX PRESERV	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME Chloride	
Bern # 1	C -	6.20.19 06:00 X	
2 Been # 2	-		
3 RS-OH N. WALL O-4 FT		01:10	
4 RS-04 W.WALL 0-4PT		Q:30	
5 EC-08 W.WALL 0-2 127		06:35	
-		07:40	
7 RS-06 N. WALL O-4FT		07:45	
8 RS- 07 N. WALL O-4FT		07:50	
9 RS-08 N. WALL O-4FT &	2	A 00.80 A	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	salm arising whether based in contract or tort, shall be limited	to the amount paid by the client for the	
analyses, Au canns, including mass for negligence and any oner cause whatsoever shall be deemed waved unless made in writing and received by Cardinal writin 3d days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incitrated by client, its subsidiaries, affiliates or successors addition of the paleting of successors addition of the paleting of successors addition of the paleting of services the paleting of successors addition of the paleting of services the paleting of services and the paleting of the pale	med waived unless made in writing and received by Cardinal hout limitation, business interruptions, loss of use, or loss of j had receardless of whather such claim is based upon any of t	within 30 days after completion of the applicable violits incurred by client, its subsidiaries,	
affiliates or successors arising out of or related to the performance of services hereunder by Card	inal regardless of whether such claim is based upon any of i	a about stated reasons or otherwise	

Relinquished By:

Received By:

Time:

Date:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

Page 1/2

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact
Tes Tes
No No

CHECKED BY:
(Initials)

affiliates or successors arising out of or related to the performance Relinquished By:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Pr Hicks Consultation				8	BILL TO			ANALYSIS I	REQUEST	
Project Manager:	Andrew Par			P.O. #:	#:				- 1		
Address: On-	T:16			Com	Company:	RT Hirds	S				
City:	State:	Zip:		Attn:							
Phone #:	Fax #:			Address:	ess:						
Project #:	Project Owner:			City:							
Project Name:	Advance Energy			State:		Zip:					
Project Location:	kc1			Phone #:	ne #:						
Sampler Name:	Andrew Parket			Fax #:	#:						
FOR LAB USE ONLY			MATRIX		PRESERV.	SAMPLING	NG				
Lab I.D. 14902.137	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	Chloride			
0)	QS-01 0-4 FT N.WALL	5	- X		×	6-20.19	15:05	*			
11	RS-01 & WALL S-8 FT	-			_		15:10				
12	RS-01 W. WALL 5-8PT						15:15				
N N	RI-01 S.WALL 5-8FT						15:20				
14	RS-01 N. WALL 5-8 FT						15:25				
5	RS-01 BASE 8FT	<	<		-	4	15:30	4			
PLEASE NOTE: Liability an analyses. All claims includin	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	ny claim feemed y	arising whether based in co	ntract or tort, s	hall be limited by Cardinal	to the amount paid within 30 days after	by the client for	r the he applicable			ŀ
Service. III 110 event shall ca	service. Il to even state de investiga o consequenta dantages, novadilg minora limitation, business instruption, nes of profis indicate by citatic, its substitutions.	MANAGERIA	milianon, pusitiess illientupi	בנו וס פטו ,פווט	e. 01 1035 01 1	none incurred by c	init, its substitute	alles,			

Relinquished By:

herry

Date: 6-20-19 Time: 17:00

Date: Time:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No

Add'l Phone #: Add'l Fax #:

Page 2/2

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

#97

Sample Condition
Cool Intact
PYes PYes
No No

CHECKED BY: (Initials) Relinquished By



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 12:41.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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:
 06/18/2019

 Reported:
 06/20/2019
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: G 1 0-1' W. WALL (H902108-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/20/2019	ND	400	100	400	3.92	
Sample ID: G 1 E. WALL	0-1' (H90210	8-02)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 1 BASE 1' (H902108-03)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/20/2019	ND	400	100	400	3.92	

# Sample ID: G 2 W. WALL 0-1' (H902108-04)

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	06/20/2019	ND	400	100	400	3.92		

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



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: 06/18/2019

Reported: 06/20/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: G 2 E. WALL 0-1' (H902108-05)

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	06/20/2019	ND	400	100	400	3.92	

# Sample ID: G 2 BASE 1' (H902108-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/20/2019	ND	400	100	400	3.92	

# Sample ID: G 3 W. WALL 0-3' (H902108-07)

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	

## Sample ID: G3 BASE 3' (H902108-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 4 W. WALL 0-3' (H902108-09)

Chloride, SM4500Cl-B	mg/	•	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	

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

Received: 06/19/2019 Sampling Date: 06/18/2019

Reported: 06/20/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: G 4 BASE 3' (H902108-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 5 S. WALL 0-2' (H902108-11)

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	

# Sample ID: G 5 BASE 2' (H902108-12)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 6 0-2.5' BASE (H902108-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 6 S. WALL 0-2.5' (H902108-14)

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	

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Fax To: NONE

Received: 06/19/2019 Sampling Date: 06/18/2019

Reported: 06/20/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

# Sample ID: G 7 BASE 2.5' (H902108-15)

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	

## Sample ID: G 7 W. WALL 0-2.5' (H902108-16)

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	

# Sample ID: G 7 E. WALL 0-2.5' (H902108-17)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	06/20/2019	ND	400	100	400	3.92	

## Sample ID: G 8 E. WALL 0-2.5' (H902108-18)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/20/2019	ND	400	100	400	0.00	QR-03	

## Sample ID: G 8 W. WALL 0-2.5' (H902108-19)

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	0.00	

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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: 06/18/2019

Reported: 06/20/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

## Sample ID: G 8 BASE 2.5' (H902108-20)

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	06/20/2019	ND	400	100	400	0.00	

## Sample ID: G 9 2' E. WALL (H902108-21)

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	06/20/2019	ND	400	100	400	0.00	

## Sample ID: G 9 W. WALL 0-2' (H902108-22)

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	06/20/2019	ND	400	100	400	0.00	

### Sample ID: G 9 BASE 2' (H902108-23)

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	06/20/2019	ND	400	100	400	0.00	

## Sample ID: G 11 S. WALL 0-2' (H902108-24)

Chloride, SM4500CI-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	06/20/2019	ND	400	100	400	0.00	

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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: 06/18/2019

Reported: 06/20/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: G 11 BASE 2' (H902108-25)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 32.0 16.0 06/20/2019 ND 400 100 400 0.00

Sample ID: RS - 06 E. WALL 0-1.5' (H902108-26)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed Method Blank BS True Value QC RPD Analyte Result Reporting Limit % Recovery Qualifier <16.0 16.0 06/20/2019 400 400 0.00 Chloride ND 100

Sample ID: RS - 06 W. WALL 0-1.5' (H902108-27)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 06/20/2019 ND 400 400 0.00 Chloride <16.0 16.0 100

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Celeg D. Kreene



## **Notes and Definitions**

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.

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



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

Company Name:	RT Hicks an Corso to	The second secon	BILL TO	ANALYSIS REQUEST	
Project Manager:	Andrew Parker	P.O. #:			
Address: 🗇		Company: RT	: RT Hicks		
City:	State:	Zip: Attn:			
Phone #:	Fax #:	Address: Mail	mail to ARG		
Project #:	Project Owner:	: City:	off co		
Project Name:	Advance Energy	State:	Zip:		
Project Location:	Kinnsley	Phone #:			
Sampler Name:	Andrew Parker	Fax #:			
FOR LAB USE ONLY	The state of the s	MATRIX PRESERV	RV. SAMPLING		
Lab I.D.	Sample I.D.	DAB OR (C)OMP DINTAINERS DUNDWATER STEWATER DGE ER: D/BASE:	ER:	hloride	
1 was	61 0-1 FT W. WALL	- ## G W S C C S	6:18:14 15:20 X		
2	61 E WALL 0-1 PT	0	15:25		
W	61 BASE IFT	-	15:30		
4	62 W. WALL 0-1 FT	1 1	15:35		
S	62 E, WALL 0-1 FT	0	04:51		
6	62 BASE 1 FT	C -	15:95		
7	63 W. WALL 03 FT	C -	8.56		
000	63 BASE 3 FT		15:51		
a	64 W. WALL 0-3 FT	0 /	6:00		
10	64 BASE 3 FT		16:05		
PLEASE NOTE: Liability ar analyses. All claims including service. In no event shall C	PLEASE NOTE: Liability and Damages. Cardinal's laabily and elient's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which old says after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including which timitation, business interruptions. Is os of true, or loss of troffs income the referring the refe	y claim arising whether based in contract or tort, shall be live eemed walved unless made in writing and received by Caro without limitation, business interruptions, loss of use, or loss	mited to the amount paid by the client for the Jinal within 30 days after completion of the app	plicable	
affiliates or successors arisi	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is	rdinal, regardless of whether such claim is based upon any	based upon any of the above stated reasons or otherwise.		
Kelindulsned by:		Received by:	Phone Result: Fax Result:	t:	
The Man	Time:	alaxan	REMARKS:		

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

3.50

#97

Cool Intact
Tyes Tyes
No No

70

CHECKED BY: (Initials)

Page 1/3

Date: 6.19:19
Time: 30

Date: 1/19

Received By:



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

Company Name:	RT Histor Casalate		B/LL TO	ANALYSIS REQUEST
Project Manager:	Andrew Pa	P.O. #:		
Address:		Company:	y:	
City:	Ga file State:	Zip: Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:	Advose Energy	State:	Zip:	
Project Location:	Kinusi	Phone #:		
Sampler Name:	1. 6	Fax #:		
FOR LAB USE ONLY		MATRIX PRESERV	ERV. SAMPLING	
Lab I.D. <i>1</i> 902.108	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:  DATE  TIME	Chloride
11	65 S, WALL 0-2 1=7	× ×	6.18.19 16:10	Х.
12	CS BASE 2 PT	(1)	1 16:15	
(V	66 0-2.5 FT BASE	0 1	16:20	
14	66 S.WALL 0-2.5 FT	C 1	16:25	
15	67 BASE 2.5 FT	C 1	16:30	
16	G7 W. WALL 0-2517	C 1	16:35	
17	67 E. WALL 0-25 FT	CI	16:48	
18	58 E WALL 6-25 FT	C1 /	54:91	
19	68 W. WALL 0-7,5 FT	0 1	16:50	
20	BASE 1	61	-	8
PLEASE NOTE: Liability an analyses, All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	y claim arising whether based in contract or tort, shall be eemed waived unless made in writing and received by C	limited to the amount paid by the client for ardinal within 30 days after completion of the	or the the applicable
service. In no event shall Ca	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	without limitation, business interruptions, loss of use, or I	oss of profits incurred by client, its subsidia	aries.

Relinquished By:

Date: 6-19-19

Received By:

En anthe

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No No

Add'I Phone #: Add'I Fax #:

Time: 07:30

Relinquished By:

Date 6/19/19

Received By:

Time: 'L'

Sample Condition

CHECKED BY: (Imitials)

RFN

had han

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

3.50

Cool Intact
A Yes A Yes
No No

10



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

company Name:	0 ナーナング でいき	) 4			ANAL	ANALYSIS REQUEST	
Project Manager:	Andrew Par	F	P.O. #:	procedure and an acceptance of the second			
Address:		0	Company:				
City:	State:	Zip:	Attn:				
Phone #:	Fax #:	Þ	Address:				
Project #:	Project Owner:		City:				
Project Name:	Advage Engly	0	State: Zip:				
Project Location:		7	Phone #:				
Sampler Name:	ے ۔	7	Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAN	SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chloride	VI III I SC		
21	69 2FT EWALL	C 1	× 6.18.19	1 60:11 8			
de	G9 W, WALL O-2 FT	(1)		17:05			
છ	69 BASE 2 FT	01		17:70			
36	611 S, WALL 0-2 1-7	C 1		17:15			
25	611 BASE 2FT	0 1		D:10			
R R	RS-06 E. WALL 0-1.ST	1 )		n:25			
27	RS-06 W, WALL 0-1,517	C1 &	¥ ¥	A 05.US			
DI EASE NOTE: Lishiik and	Demonds Continuity liability and slightly overlinks compate for a						Ш
analyses All claims including	analysis All Palms including the for controlled any other controlled and the controlled a	any claim ansing whether based in contract of	tort, shall be limited to the amou	int paid by the client for the	8		

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Exicated -3.5° Time: 7:39 Date: - 19-19 Date: / 19/19 つむな Received By: Evicantas Sample Condition
Cool Intact
Tes Tes
No No 10 CHECKED BY: (Initials) Phone Result:
Fax Result:
REMARKS: MGE 3/3 □ Yes No No Add'l Fax #: Add'l Phone #:

1	7	1
	>	+
1		



June 14, 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 06/13/19 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 06/13/2019 Sampling Date: 06/13/2019
Reported: 06/14/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)
Project Number: ADVANCE - KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

## Sample ID: RS - 01 BASE 5' (H902066-01)

Chloride, SM4500Cl-B	` mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	06/14/2019	ND	416	104	400	3.92	
Sample ID: RS - 02 BASE	3' (H902066	-02)							
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	06/14/2019	ND	416	104	400	3.92	
Cilionae									
Sample ID: RS - 03 BASE	-	-	<b>Analyze</b>	d Rv: AC					
Sample ID: RS - 03 BASE Chloride, SM4500Cl-B	3' (H902066- mg, Result	/kg	-	d By: AC  Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Sample ID: RS - 03 BASE Chloride, SM4500Cl-B Analyte	mg,	-	Analyzed Analyzed 06/14/2019	-	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Sample ID: RS - 03 BASE Chloride, SM4500Cl-B	Result	Reporting Limit	Analyzed	Method Blank		,	·		Qualifier
Sample ID: RS - 03 BASE Chloride, SM4500CI-B Analyte Chloride Sample ID: RS - 04 BASE	Result	Reporting Limit 16.0	Analyzed 06/14/2019	Method Blank		,	·		Qualifier
Sample ID: RS - 03 BASE Chloride, SM4500Cl-B Analyte Chloride	Result 32.0 5' (H902066	Reporting Limit 16.0	Analyzed 06/14/2019	Method Blank ND		,	·		Qualifier

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



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

Received: 06/13/2019 Sampling Date: 06/13/2019

Reported: 06/14/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: \*\* (See Notes)

Project Number: ADVANCE - KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: RS - 05 BASE 3.5' (H902066-05)

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 06/14/2019 ND 384 96.0 400 0.00

Sample ID: RS - 06 BASE 1.5' (H902066-06)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank % Recovery Qualifier <16.0 16.0 06/14/2019 384 96.0 400 0.00 Chloride ND

Sample ID: RS - 06 S. WALL 0-1.5' (H902066-07)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 06/14/2019 ND 400 0.00 Chloride <16.0 16.0 384 96.0

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## **Notes and Definitions**

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.

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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Celeg D. Freene



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

Company Name:	RT Hicks Consultants		77/8	L 70		ANALYSIS REQUEST	
Project Manager:	Andrew Po		P.O. #:				
Address: 0	on- File		Company:				
City:	State:	Zip:	Attn:				
Phone #:	Fax #:		Address:				
Project #: Adv	Advance Energy Project Owner:	.:	City:				
Project Name:	4		State: 2	Zip:			
Project Location:	· Advance - Kingsley		Phone #:				
Sampler Name:	7.0		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	u,		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	Chloride	
1	RS-01 BASE 5 14	C 1 X		6-13-19	\$1:51	*	
7	25-02 BASE 3 ST			-	15:20		
W	RS-03 BASE 3 24	_			15:15		
4	RS-OH BASE 5 ST			1	15:30		
S	RS - 05 BASE 3.5 At			1	15:35		
6	RS-06 BASE 15 \$+				ON:51		
2	SWALL	-		<			
PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Lability and Damages, Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	ny claim arising whether based in contract deemed waived unless made in writing and	or tort, shall be limited to received by Cardinal wit	the amount paid by hin 30 days after co	the client for the appropriate of the appropriate o	pplicable	
service. In no event shall Ca	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	without limitation, business interruptions, I	loss of use, or loss of prof	its incurred by clien	it, its subsidiaries,		

Relinquished By:

Date: Time: 17:8

Received By:

amara

Fax Result: REMARKS: Phone Result:

☐ Yes

□ No

Add'I Fax #: Add'l Phone #:

Time:

was on

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

9.4° #97

Sample Condition
Cool Intact
Yes Yes

10.

CHECKED BY: (Initials)

RFNNN

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above states

Received By:

Received By:

Date: 6-13-19



June 12, 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 06/11/19 9:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. 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: 06/11/2019 Sampling Date: 06/10/2019

Reported: 06/12/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: ADVANCE - KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

## Sample ID: EC - 06 BASE 4' (H902018-01)

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	06/12/2019	ND	384	96.0	400	4.08	
Sample ID: EC - 06 E. WALL	0-3' (H902	018-02)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/12/2019	ND	384	96.0	400	4.08	
Sample ID: EC - 06 N. WALL Chloride, SM4500Cl-B	. 0-4' (H90: mg	-	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/12/2019	ND	384	96.0	400	4.08	
Sample ID: EC - 07 N. WALL	. 0-3.5' (H	902018-04)							
Sample ID: EC - 07 N. WALL	. 0-3.5' (H	-	Analyze	d By: AC					
-	-	-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



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

Fax To: NONE

Received: 06/11/2019 Sampling Date: 06/10/2019

Reported: 06/12/2019 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: ADVANCE - KINGSLEY Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

## Sample ID: EC - 07 BASE 3.5' (H902018-05)

Chioride, SM4500CI-B	mg/	кд	Analyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/12/2019	ND	384	96.0	400	4.08	

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Celey D. Keine



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Company Name:	RI Hicks Consultants	S	811170		AN	ANALYSIS REQUEST	
Project Manager:	Ande		P.O. #:	The second secon			
Address: 01			Company: RT Hicks	Hicks			
City:	State:	Zip:	Attn: MAIL To	TO OFFICE			
Phone #:	Fax #:		Address: in AE	460			
Project #:	Project Owner:	7	City:				
Project Name:	Project Name: Advance - Kingsley		State: Zip:				
Project Location:			Phone #:				
Sampler Name:			Fax #:				
FOR LAB USE ONLY		MATRIX	SERV.	SAMPLING			
Lab I.D.	$\overline{\alpha}$	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	Chloride		
1	EC-06 Base 48+	C - X	6.00.0	× 00:71 PI			
2	EC-06 E Wall 0-3 ft	<u></u>		17:10			
Cu	EC-06 N. WALL O-4 \$+	<u> </u>		51:11			
4	EC-07 N. WALL 0-3,5FT	7 ( )		00: NI			
5	EC-07 BASE 3.5 FT	C +	<	18:15 V			
PLEASE NOTE: Liability an analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	any claim arising whether based in cont deemed waived unless made in writing	ract or tort, shall be limited to the amou and received by Cardinal within 30 day	ant paid by the client for the ys after completion of the appli	icable	-	L
affiliates or successors arish	out of or related to the performance of	Received Ry:	alm is based upon any of the above stat	ted reasons or otherwise.	Von III No	1	
Kelinquished by:	Date:	Received By:	)	Phone Result:	☐ Yes ☐ No Adi	Add'l Phone #:	

Relinquished By:

Time: 09:40 Date: Time:

Received By:

Date: 11 - 1 9

Phone Result:
Fax Result:
REMARKS:

☐ Yes

□ No No

Add'l Phone #: Add'l Fax #:

RUSH

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact
Ares Ares
No No

CHECKED BY:
(Initials)