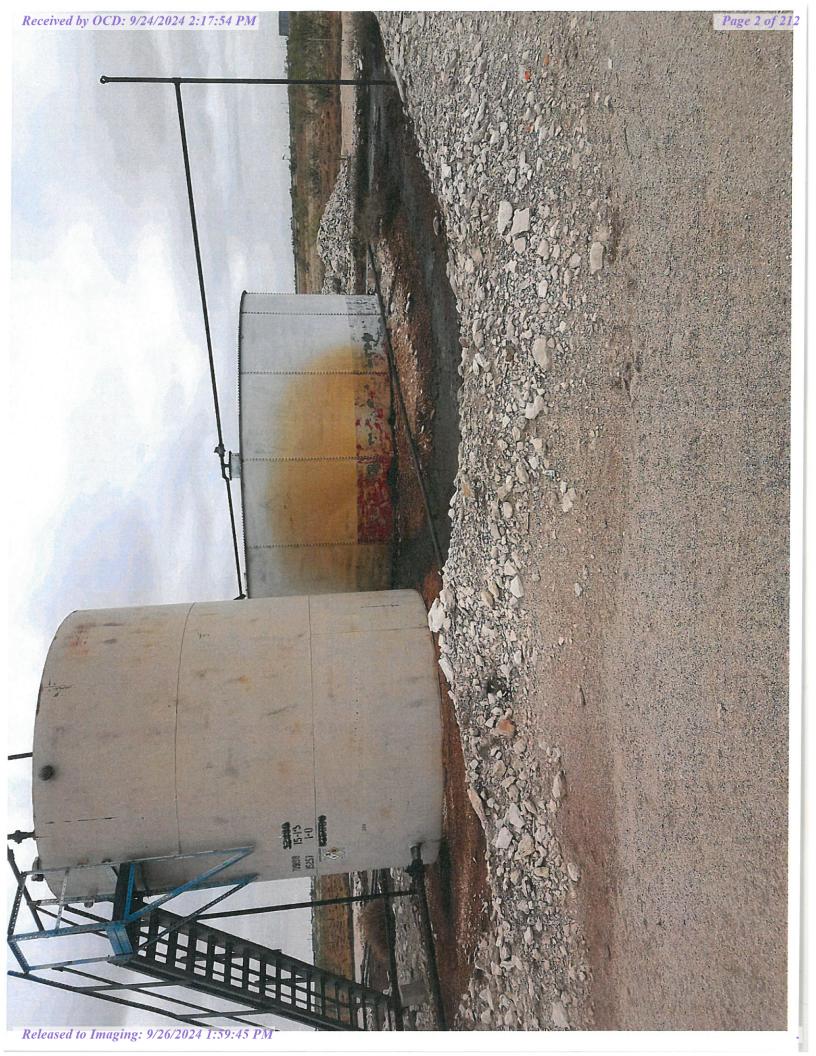
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notific	cation	and Co	orrective A	ction				
						OPERA'	TOR	x	Initi	al Report		Final Repor
		nergen Resource		on		Contact Andy Cobb						
Address 3510 N A Street, Midland, TX 79705 Facility Name State B						Telephone No. 432-686-3599						
Facility Name States						Facility Type Oil and Gas Production Facility						
Surface Ow	ner Dan Fi	eld/Branch Ranc	h	Mineral ()wner	State of New M	lexico		API No	300250270)9	
					OITA	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/Wes	st Line	County		
J	1	16S	35E	4610	FSL		2301	FEL		LEA		
			Latitu	de 32.9565239	Lo	ngitude1	03.4101334	NAD83				
				NAT	URE	OF RELI	EASE					
Type of Relea	ase Crude C	Dil				Volume of	Release 136 barrels		olume F	Recovered)	
Source of Re							lour of Occurrenc	e 5/22/18 D	ate and	Hour of Dis	covery e	5/1/18
Was Immedia	ate Notice (_	Yes 🗓	No Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H	our					
Was a Watero	course Reac	ched?					lume Impacting t	he Waterco	ourse.			
			Yes X] No		*** I						
If a Watercou	rse was Im	pacted, Descri	be Fully.*				CEN/ES					
							CEIVED CHernand		2:31 k	om. Jur	1 04.	2018
Describe Caus	se of Proble	em and Remed	ial Action	Taken *								
				and release fluid.	The fluid	was not imm	ediately discovere	ed.				
Describe Area	Affected a	and Cleanup A	ction Tak	en.*								
The area insid	de the berm	was affected a	ind remed	iation will be as so	on as po	ssible.						
regulations all public health of should their of	operators a or the envir perations ha ment. In ad	are required to conment. The a ave failed to ac dition, NMOC	report and eceptance dequately D accepta	is true and compled/or file certain re of a C-141 repor investigate and re ance of a C-141 re	lease not t by the I mediate	tifications and NMOCD mar contamination	d perform correct rked as "Final Rep on that pose a thre the operator of re	ive actions port" does not to ground esponsibility	for rele not relie d water, y for cor	ases which reverthe operations surface wat mpliance with	nay end tor of lia er, hum th any of	langer ability an health
Signature:	Jul	4 W	88				OIL CONS	SERVAT	ION I	DIVISIO 1	N	
Printed Name:	Andy Cobi	·			A	pproved by I	Environmental Sp	ecialist:		_0+		
Title: Director	r EH&S				A	pproval Date	6/4/2018	Expi	ration D	ate:		
E-mail Addres	s: andy.co	bb@energen.c	om		C	onditions of	Approval:				_/	
Date: 6/4/2018				432-686-3599			hed directiv	⁄е		Attached	⊻	
Attach Additi	onal Shee	ts If Necessa	ry		1F	RP-5082	nC	H1815	5528	62		
					pC	CH18155	554047					



Operator/Responsible Party,

The OCD has received the form C-141 you provided on _6/4/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5082__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _7/4/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Latitude

32.95652

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

-103.41013

Release Notification

Responsible Party

Responsibly Party	Energen Resources Corporation	OGRID	162928	
Contact Name	Tommy York	Contact Telephone	432-209-2483	
Contact Email	tommy.york@energen.com	Incident # (assigned by OCD)	1RP-5082	
Contact Mailing Address	3510 N A Street, Midland, TX 7970)5		

Location of Release Source

Longitude

Site Name	State B			Site Type	Tank Battery		
Date Release I	Discovered	1 06/01/18	"		cable) 30-025-02709		
			 .	1 22 20 (9 appoint			
Unit Letter	Section	Township	Range	Count	y		
"J"	1	16	35	Lea			
Surface Owner	: ☑ Stat	e□ Federal□ T	ribal□ Private (No Nature ane	d Volume of I	State of New Mexico Release		
			·	calculations or specific	c justification for the volumes provided belo	ow)	
Crude Oil		Volume Released (I		136	Volume Recovered (bbls)	0	
☐ Produced Water Volume Released (bbls)			Volume Recovered (bbls)				
		Is the concentration produced water >10		olids (TDS) in the	☐ Yes ☑ No		
☐ Condensate Volume Released (bbls)			Volume Recovered (bbls)				
□ Natural G	as	Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (des	cribe)	Volume/Weight Re	eased (provide unit	s)	Volume/Weight Recovered (provi	de units)	
Cause of Relea A hole develo		e oil tank as a resu	lt of corrosion; th	e fluid was not in	mmediatedly discovered.		

Form C-141 Page 2 State of New Mexico
Oil Conservation Division

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Was this a major	If YES, for what reason(s) does the respons	ible party consid	er this a major release?
release as defined by	R	elease of greate	r than 25 bbls.
19.15.29.7(A) NMAC?		8	
☑ Yes □ No			
ICATEO : III			
	notice given to the OCD? By whom? To who	m? When and by	what means? (phone, email, etc)?
No			÷
	Initial	Response	
The responsi	ble party must undertake the following actions immedi	ately unless they cou	ld create a safety hazard that would result in injury
			
The source of the re	elease has been stopped.		
The impacted area l	has been secured to protect human health and	the environment	•
	ave been contained via the use of berms or di		
	recoverable materials have been removed an		
	d above have not been undertaken, explain v		
ar wire desirate deported	a above have <u>not</u> been undertaken, explain v	my.	
	_		
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence re	mediation immed	iately after discovery of a release. If remediation has
begun, please attach a nar	rative of actions to date. If remedial efforts 1	nave been success	sfully completed or if the release occurred within a lined
containment area (see 19.	15.29.11 (A)(5)(a) NMAC), please attach al	I information nee	ded for closure evaluation.
			edge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release nor	ifications and nerf	form corrective actions for releases which may endanger
public health or the environ	ment. The acceptance of a C-141 report by the (OCD does not relie	ve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a thr	eat to groundwater	surface water, human health or the environment. In
addition, OCD acceptance of	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.			
	<u> </u>		
Printed Name:	Tommy York	Title:	Production Superintendent
-1			
Signature:	nny York	Date:	12-19-18
email: tommy.york@	energen.com	Telephone:	432-209-2483
tommy, yorke	renergen.com	relephone.	432=209-2463
0000		_	
OCD Only			i
Received by:		Date:	
- F	REVIEWED		
		on 16 2010	
E	By CHernandez at 10:12 am, J	an 16, 2019	

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?		63 Ft.	(ft. bgs)
Did this release impact groundwater or surface water?	□	Yes 🗹	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?		Yes 🗹	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinarily high-water mark)?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		Yes 🗹	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?		Yes ☑	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		Yes 🗵	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?		Yes ☑	No
Are the lateral extents of the release within 300 feet of a wetland?		Yes ☑	No
Are the lateral extents of the release overlying a subsurface mine?		Yes 🗵	No
Are the lateral extents of the release overlying an unstable area such as karst geology?		Yes ☑	No
Are the lateral extents of the release within a 100-year floodplain?		Yes ☑	No
Did the release impact areas not on an exploration, development, production or storage site?		Yes 🖸	No

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

Cha	aracterization Report Checklist: Each of the following items must be included in the report.
Ø	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data
0	Data table of soil contaminant concentration data
3	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
团	Boring or excavation logs
Ø	Photographs including date and GIS information
[2]	Topographic/Aerial maps
☑	Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. Than 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 modifies by site- and release-specific parameters.

Form C-141

Page 4

State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

regulations all oper public health or the failed to adequately	environment. The acceptance of a C-141 report investigate and remediate contamination that per	lease notifications and perform by the OCD does not relieve the ose a threat to groundwater, sur	and understand that pursuant to OCD rules and corrective actions for releases which may endanger to operator of liability should their operations have face water, human health or the environment. In pliance with any other federal, state, or local laws
Printed Name:	Tommy York	Title:	Production Superintendent
Signature:	Tommy York	Date:/	2-19-18
email:	tommy.york@energen.com	Telephone:	432-209-2483
OCD Only Received by:	APPROVED By CHernandez at 10:12 a	m, Jan 16, 2019	

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862	
District RP	1RP-5082	
Facility ID	30-025-02709	
Application ID	pCH1815554047	

Remediation Plan

Rei	mediation Plan Checklist: Each of the following items must be included in the report.
3	Detailed description of proposed remediation technique
Ø	Scaled sitemap with GPS coordinates showing delineation points
4	Estimated volume of material to be remediated
V	Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
2	Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Def	ferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
DCI	torial Regards Only. Each of the following tiems 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.
and may shou hum com	reby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which rendanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability and their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, have health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for appliance with any other federal, state, or local laws and/or regulations. Tommy York Title: Production Superintendent
	S
Sign	nature: / mmy 4/2015 Date: 12-19-18
ema	il: tommy.york@energen.com Telephone: 432-209-2483
OC.	D Only
Rece	eived by: Date:
	Approved APPROVED By CHernandez at 10:12 am, Jan 16, 2019 Denied Deferral Approved



APPROVED

By CHernandez at 10:11 am, Jan 16, 2019

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

November 12, 2018

Olivia Yu & Christina Hernandez New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann **Hobbs Field Office** New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Site Assessment Report and Proposed Remediation Plan Re:

Site Name: State B

GPS: Latitude: 32.95652 Longitude: -103.41013

Legals: UL "J", Sec. 1, T16S, R35E

Lea County, New Mexico NMOCD Ref. No. 1RP-5082

Lowry Environmental & Associates, LLC (LEA), on behalf of Energen Resources Corporation, has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the State B. Details of the release are summarized on the table below:

	Nature and	l Volume of Release	
Date Release Discovered	6/1/2018	Source of Release	Tank Battery
Tune of Delege	Court oil	Volume Released (bbls)	136
Type of Release	Crude Oil	Volume Recovered (bbls)	None
Cause of Release		•	
A hole developed in the oil ta	ank as a result of corrosion: the fl	uid was not immediatedly discovered.	
		and machine minimum and county and county and county	
Affected Area			
Affected Area The release affected and area	a within an unlined earthen conta	ainment.	
The release affected and area	T		
The release affected and area	T	ainment. this considered a major release?	
	T		
The release affected and area Was this a major release?	T	this considered a major release?	
The release affected and area Was this a major release? Yes	If YES, for what reasons (s) is	this considered a major release?	
The release affected and area Was this a major release? Yes	If YES, for what reasons (s) is	this considered a major release? Volume Greater than 25 bbls	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	>63'
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	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)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	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?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production or storage site?	No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (L10272) within 1,000 ft. of the Site. A field survey indicated available geographic information for L10272 was outdated and/or incorrect; there was no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release					
Benzene	10 mg/kg				
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg				
Total Petroleum Hydrocarbons	2,500 mg/kg				
Combined GRO and DRO	1,000 mg/kg				
Chloride	10,000 mg/kg				

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	nCH1815552862		
District RP	1RP-5082		
Facility ID	30-025-02709		
Application ID	pCH1815554047		

INITIAL SITE ASSESSMENT

On **July 31, 2018**, two (2) investigative soil bores (SP-1 and SP-2) were advanced at the Site in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. Soil bore SP-1 was advanced to a depth of 30 ft. bgs. During the advancement of the soil bore, 10 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 12 ft. bgs in the area represented by soil bore SP-1.

Soil bore SP-2 was advanced to a depth of 63 ft. bgs. During the advancement of the soil bore, 14 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 9 ft. bgs in the area represented by soil bore SP-1.

On **November 2, 2018**, four (4) soil samples (North @ 1', East @ 1', South @ 1' and West @ 1') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample North @ 1', which exhibited a GRO+DRO concentration of 2,311.4 mg/kg and a TPH concentration of 2,793.4 mg/kg. Collection of soil samples from deeper intervals was precluded due to the presence of an impenetrable rock layer.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided on the following page:

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
				SW 846	8021B	SW 846 8015M Ext.				E300/4500Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{aligned} GRO + DRO \\ C_6\text{-}C_{28} \\ (mg/kg) \end{aligned}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1 @ Surf.	7/31/18	0-6"	In-Situ	2.79	307	2,530	29,500	32,030	3,790	35,820	96.0
SP1 @ 3'	7/31/18	3'	In-Situ	-	-	389	4,400	4,789	447	5,236	1,260
SP1 @ 6'	7/31/18	6'	In-Situ	-	1	1,140	6,980	8,120	837	8,957	480
SP1 @ 9'	7/31/18	9'	In-Situ	-	1	112	1,490	1,602	204	1,806	96.0
SP1 @ 12'	7/31/18	12'	In-Situ	1	ı	<10.0	31.0	31.0	<10.0	31.0	48.0
SP1 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	47.4	47.4	<10.0	47.4	32.0
SP1 @ 18'	7/31/18	18'	In-Situ	-	-	<10.0	21.2	21.2	<10.0	21.2	32.0
SP1 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP1 @ 24'	7/31/18	24'	In-Situ	-	-	<10.0	198	198	68.5	266.5	48.0
SP1 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	309	309	27.8	336.8	48.0
SP1 @ 30'	7/31/18	30'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP2 @ Surf.	7/31/18	0-6"	In-Situ	<1.00	157	877	7,500	8,377	601	8 <mark>,978</mark>	800
SP2 @ 3'	7/31/18	3'	In-Situ	-	-	2,680	12,300	14,980	1,430	1 <mark>6,41</mark> 0	352
SP2 @ 9'	7/31/18	9'	In-Situ	-	-	33.3	556	589	45.0	634.3	1,410
SP2 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SP2 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
SP2 @ 27'	7/31/18	27'	In-Situ	-	ī	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
SP2 @ 33'	7/31/18	33'	In-Situ	-	i	30.0	388	418	68.8	486.8	1,090
SP2 @ 39'	7/31/18	39'	In-Situ	-	ī	<10.0	66.4	66.4	14.8	81.2	720
SP2 @ 45'	7/31/18	45'	In-Situ	<0.050	<0.300	<10.0	29.1	29.1	<10.0	29.1	368
SP2 @ 48'	7/31/18	21'	In-Situ	-	-	<10.0	49.6	49.6	<10.0	49.6	368
SP2 @ 54'	7/31/18	21'	In-Situ	-	-	<10.0	34.5	34.5	<10.0	34.5	256
SP2 @ 57'	7/31/18	57'	In-Situ	-	-	<10.0	50.6	50.6	<10.0	50.6	224
SP2 @ 60'	7/31/18	60'	In-Situ	-	-	<10.0	37.6	37.6	<10.0	37.6	128
SP2 @ 63'	7/31/18	63'	In-Situ	<0.050	<0.300	<10.0	144	144	41.5	185.5	128
East @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	13.4	406	419.4	62.5	481.9	64.0
North @ 1'	11/2/18	1'	In-Situ	<0.050	0.332	11.4	2,300	2,311.4	482	2,793.4	480
West @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	60.1	60.1	36.6	96.7	1,060
South @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	195	195	119	314	3,080
	Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862		
District RP	1RP-5082		
Facility ID	30-025-02709		
Application ID	pCH1815554047		

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Energen Resources Corporation proposes the following remediation activities designed to advance the Site toward an approved closure:

- •Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample point SP-1 to a depth beyond 9 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- •Excavate impacted soil within the release margins in the area characterized by sample point SP-2 to a depth beyond 3 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- •Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria. This will include the impacted area characterized by soil sample North @ 1'.
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft**. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **1,070 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Andy Cobb or the undersigned by phone or email.

Respectfully,

Joel W. Lowry

Environmental Professional

Lowry Environmental & Associates, LLC

Attachments: Attachment #1- Figure 1 - Topographic Map

Attachment #2- Figure 2 - Aerial Map

Attachment #3- Figure 3 - Site & Sample Location Map
Attachment #4- Depth to Groundwater Information

Attachment #5- Soil Profile

Attachment #6- Laboratory Analytical Reports

Attachment #7- Photographic Log

Attachment #8- Release Notification (FORM C-141)

Attachment #9- Field Data

LIMITATIONS

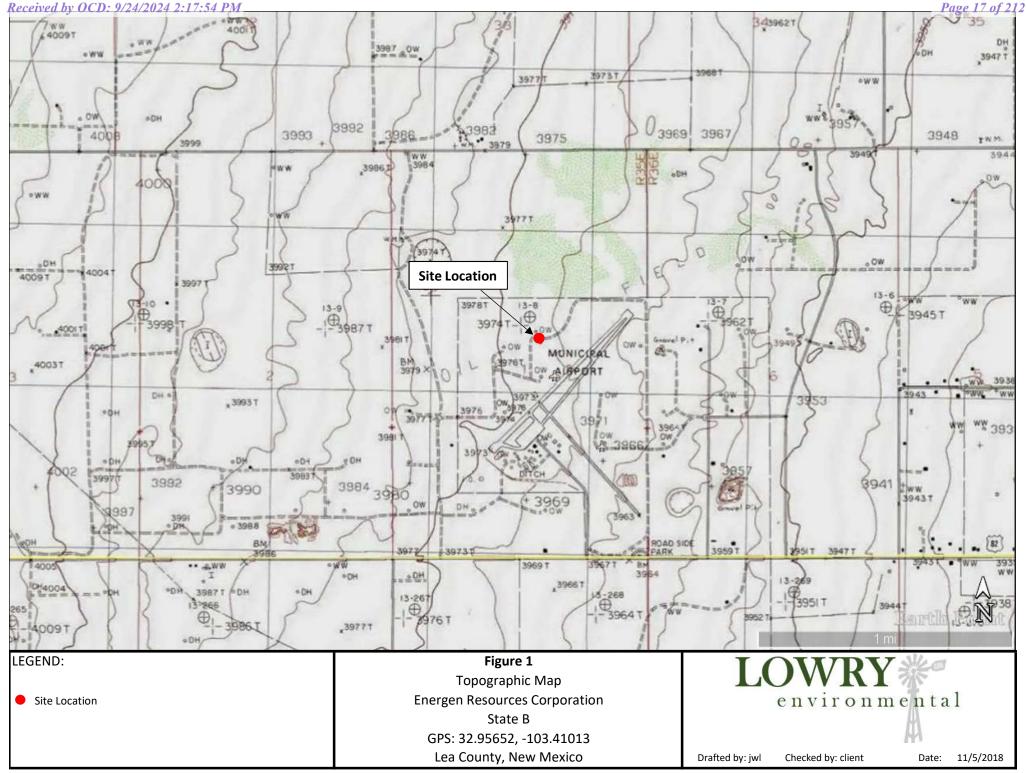
This document has been prepared on behalf of Energen Resources Corporation. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Energen Resources Corporation is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

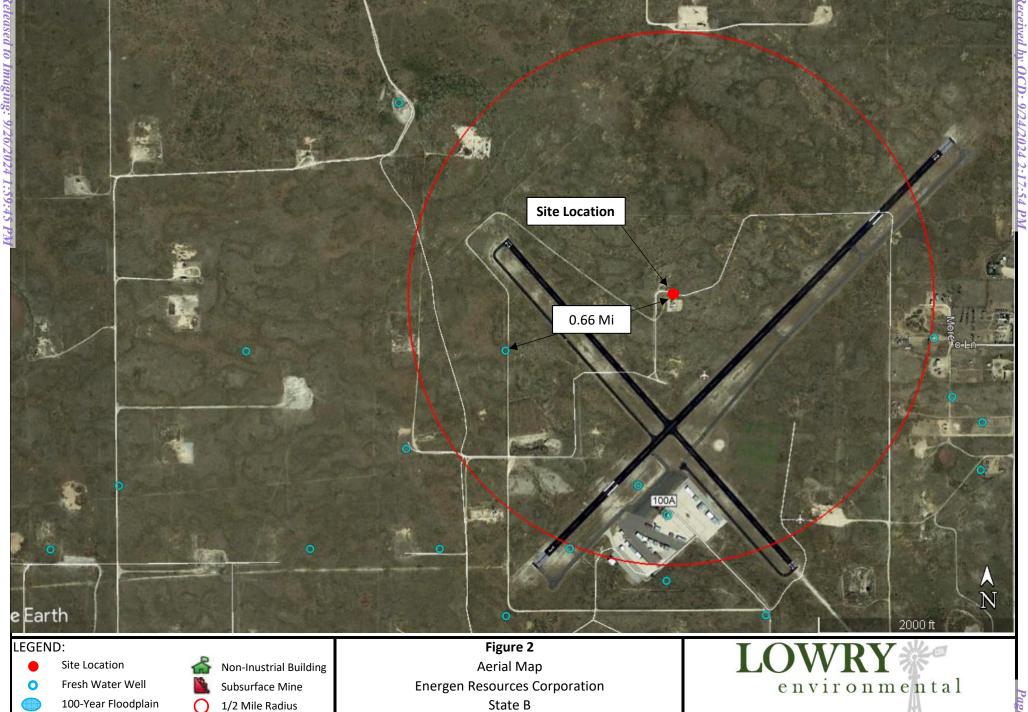
ATTACHMENT #1

Figure 1 - Topograpic Map



ATTACHMENT #2

Figure 2 - Aerial Map



GPS: 32.95652, -103.41013 Lea County, New Mexico

Drafted by: jwl

Checked by: client

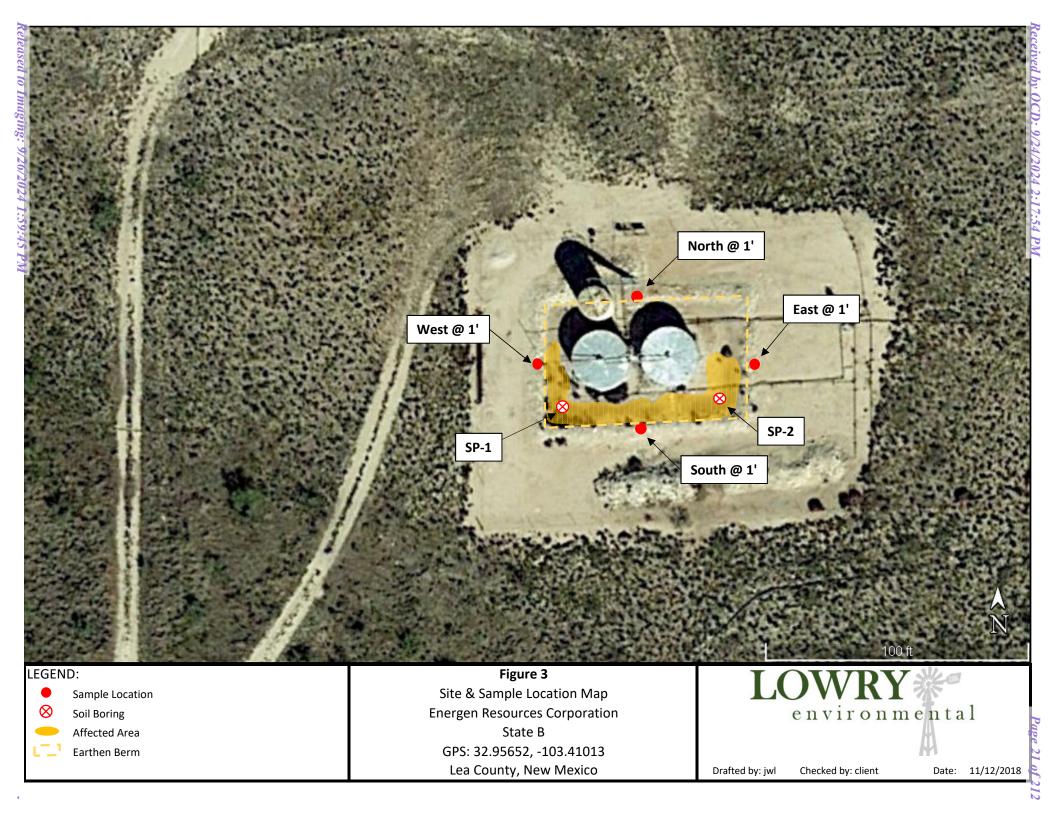
High/Critical Karst

Page 19 of 2

Date: 11/9/2018

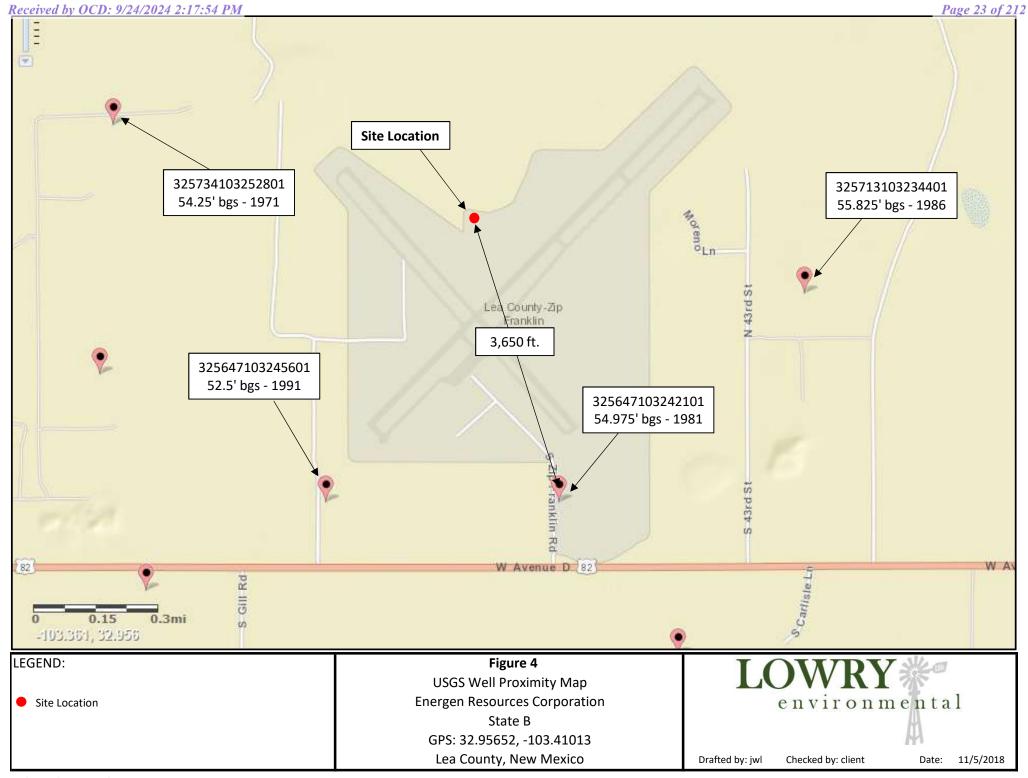
ATTACHMENT #3

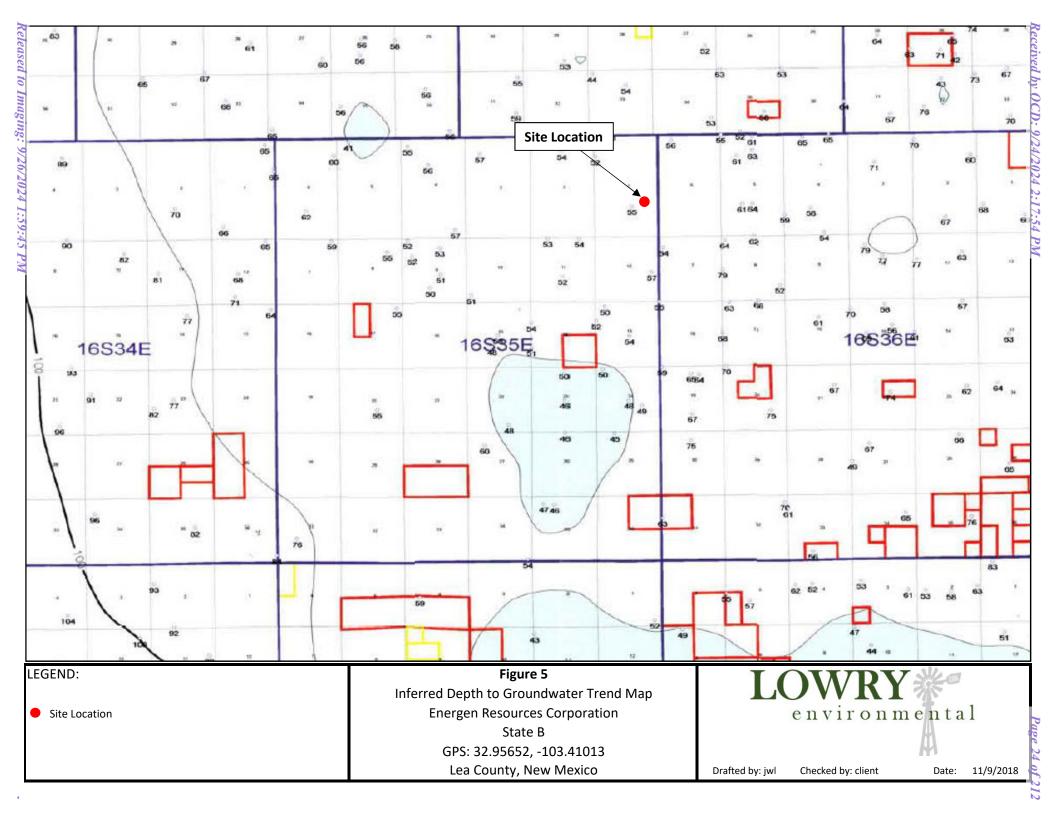
Figure 3 - Site & Sample Location Map



ATTACHMENT #4

Depth to Groundwater Information







USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

Click to hideNews Bulletins

- Please see news on new formats
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325713103234401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325713103234401 16S.36E.06.112414

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code -Latitude 32°57'13", Longitude 103°23'44" NAD27
Land-surface elevation 3,957 feet above NAVD88
The depth of the well is 102 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

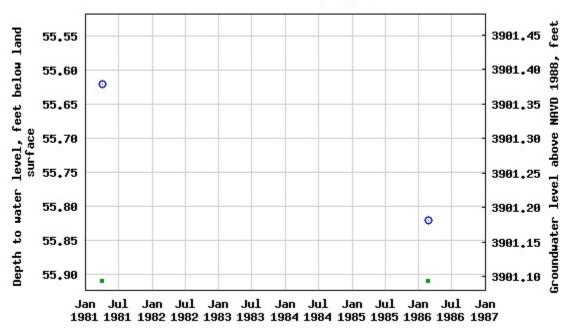
Output formats

Table of data	
Tab-separated data	

Graph of data

Reselect period

USGS 325713103234401 16S.36E.06.112414



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-11-05 12:36:20 EST

1.08 0.94 nadww01





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National Water Information System: Web Interface

HECE	Water	Daca	IIKOOO
uaua	vvalei	RESU	LILLES

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

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- Please see news on new formats
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

325647103242101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103242101 16S.35E.01.41120

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code -
Latitude 32°56'47", Longitude 103°24'21" NAD27

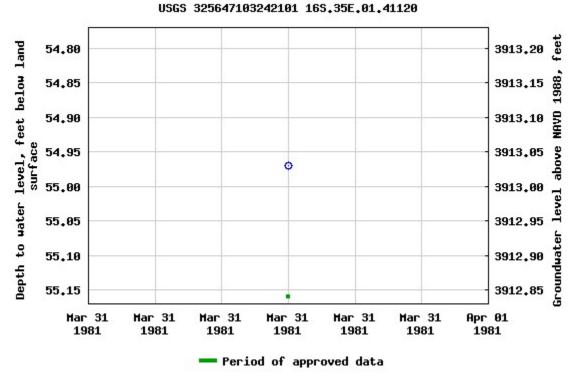
Land-surface elevation 3,968 feet above NAVD88

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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7.04 0.9 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

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- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

325647103245601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103245601 16S.35E.01.131312

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°56'47", Longitude 103°24'56" NAD27

Land-surface elevation 3,976 feet above NAVD88

The depth of the well is 75 feet below land surface.

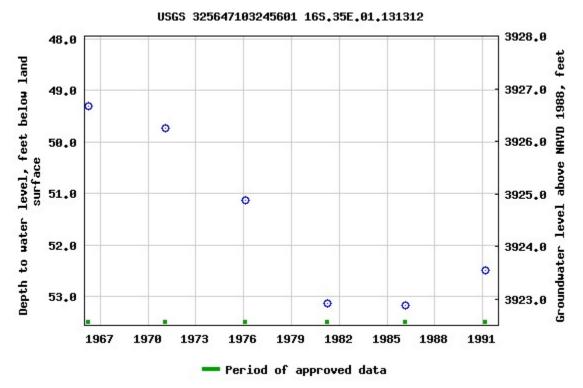
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data		
Tab-separated data		

Graph of data

Reselect period



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Title: Groundwater for USA: Water Levels

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1 0.88 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

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- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325734103252801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325734103252801 16S.35E.02.211134

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°57'34", Longitude 103°25'28" NAD27

Land-surface elevation 3,989 feet above NAVD88

The depth of the well is 100 feet below land surface.

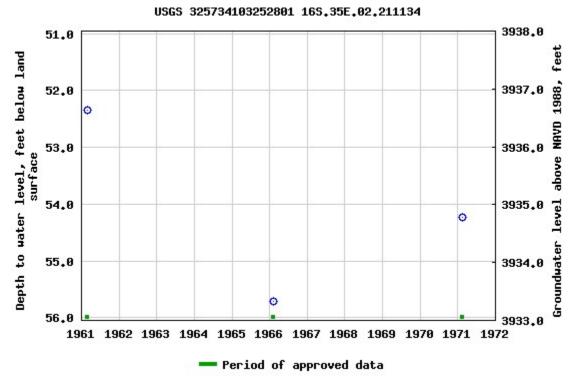
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

o a spat 101 mats					
Table of data					
Tab-separated data					

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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U.S. Department of the Interior | U.S. Geological Survey

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-11-05 12:41:54 EST

1.02 0.89 nadww01





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD														
		Sub-		Q	Q	Q									7	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y		DistanceDep	thWellDej	pthWater C	olumn
<u>L 10272</u>		L	LE	4	2	1	01	16S	35E	648409	3647475*	•	228	120	80	40
<u>L 05904</u>	R	L	LE			1	01	16S	35E	648116	3647369*		539	150	70	80
<u>L 03357</u>		L	LE				01	16S	35E	648532	3646966*		579	120	60	60
<u>L 03420</u>		L	LE				01	16S	35E	648532	3646966*		579	120	60	60
L. 03663 POD2	R	Ī.	LE	1	1	4	01	168	35F	648624	3646878*		659	164	60	104

Average Depth to Water:

66 feet

Minimum Depth:

60 feet

Maximum Depth:

80 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 648628.7 **Northing (Y):** 3647537.3 **Radius:** 805

*UTM location was derived from PLSS - see Help

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.

11/5/18 10:51 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

ATTACHMENT #5 Soil Profile

SOIL PROFILE

Site Name:	State	B

Date:	7/31	12018	

Description	i•ic	Depth (ft. bgs)
Top soil - Brown Hardpan		1
Hardpan		2
	MACOCO	3
		4
		5
		6
		7
		8
		9
:		10
		11
		12
		13
		14
		15
Caliche Ul Sand		16
		17
		18
		19
		20
		21
		22
		23
4		24
	 	25
	 	26
		27
		28
		29
		30
		31
		32 33
		34
		35
		36
		37
		38
		39 40

SOIL PROFILE

Site Name: Stale	<u>" B"</u>		Date: 7/31/2019
	Description		Depth (ft. bgs)
			41
	Caliele w/ Sand		2
	,		3
			4
			200.1
			5
			6
			7
			8
			9
			50
			1
			2
	Brown Sand		5-3
			4
			5
			6
			Z
			8
			9
			o
			6 1
			2
			TD 3
			4
			5
			6
			7
			8
			9
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	,		4
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			7
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			U.

ATTACHMENT #6 Laboratory Analytical Reports



August 01, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 07/31/18 15:25.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

mile South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

08/01/2018 STATE B NONE GIVEN

Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ SURFACE (H802084-01)

Project Name:

DTEV 0021D

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.79	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	38.3	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	53.6	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	212	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	307	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
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	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2530	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	29500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	3790	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	321	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

Analyzed By MC

Cardinal Laboratories *=Accredited Analyte

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with South



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 3' (H802084-02)

Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	08/01/2018	ND	432	108	400	0.00	
PH 8015M mg/kg		kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	389	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	4400	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	447	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	140 %	6 41-142	•						
Surrogate: 1-Chlorooctadecane	243 %	6 37.6-14	7						

Sample ID: SP 1 @ 6' (H802084-03)

hloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	6980	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	837	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	172	% 41-142	,						
Surrogate: 1-Chlorooctadecane	308	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 3 of 21



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Гах

 Received:
 07/31/2018
 Sampling Date:
 07/31/2018

 Reported:
 08/01/2018
 Sampling Type:
 Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: ENERGEN

Sample ID: SP 1 @ 9' (H802084-04)

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	08/01/2018	ND	432	108	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*	112	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	1490	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	204	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	137 9	% 37.6-14	7						

Sample ID: SP 1 @ 12' (H802084-05)

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	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	31.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 15' (H802084-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	0.054	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	0.062	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	0.168	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.8-14	2						
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	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	47.4	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

 Received:
 07/31/2018

 Reported:
 08/01/2018

 Project Name:
 STATE B

Project Number: NONE GIVEN Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 18' (H802084-07)

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	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	21.2	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Sample ID: SP 1 @ 21' (H802084-08)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142	!						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 24' (H802084-09)

Chloride, SM4500CI-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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	198	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	68.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	!7						

Sample ID: SP 1 @ 27' (H802084-10)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	309	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	27.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 30' (H802084-11)

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
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	08/01/2018	ND	416	104	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ SURFACE (H802084-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	8.41	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	6.84	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	142	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	157	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	12						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	877	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	7500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	601	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	156	% 41-142	?						
Surrogate: 1-Chlorooctadecane	384	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

 Received:
 07/31/2018

 Reported:
 08/01/2018

 Project Name:
 STATE B

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 3' (H802084-13)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2680	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	12300	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	1430	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	247 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	503 9	% 37.6-14	7						

Sample ID: SP 2 @ 9' (H802084-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.3	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	556	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	45.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018

Reported: 08/01/2018
Project Name: STATE B
Project Number: NONE GIVEN

Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 15' (H802084-15)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.5	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 21' (H802084-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

Sample ID: SP 2 @ 27' (H802084-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

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Mile Sough



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 33' (H802084-18)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	388	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	68.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Sample ID: SP 2 @ 39' (H802084-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	66.4	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	14.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

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Mile South



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018 Reported:

08/01/2018 STATE B

Project Name: Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 45' (H802084-20)

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	29.1	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Fax

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 48' (H802084-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	49.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

Sample ID: SP 2 @ 54' (H802084-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	34.5	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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Mr. Sough



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018
Reported: 08/01/2018
Project Name: STATE R

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 57' (H802084-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	50.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

Sample ID: SP 2 @ 60' (H802084-24)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	37.6	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 63' (H802084-25)

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.8-14	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	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	144	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	41.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

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Me South



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.

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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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 18 of 21



Sampler - UPS - Bus - Other: 4.32



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/26/2024 1:59:45 PM

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

Company Name	: Caprock Services						7			}//£	L 70						ANA	LYSI	S RE	QUES	ST			
Project Manage	: Caprock Services Fr: Steve Tuylor						P.	O. #	t:															
	Box 457						Co	omp	any:	En	ersen										- 2			
City: Loving	for State: N	M Zip	: 8	82	60		At	tn:	TOM	MY	York										1			
Phone #: 579	5-704-2718 Fax#:										4 304	546 A	1			ŀ				25.0				
Project #:	Project Ow	ner: /	nei	sen					Sen				1			ļ	,							
Project Name:	State B"	B	0								ip: 79_3	360	1											
Project Locatio	n:		Victorii Whom									24/83	1										2	
Sampler Name:	Steve Taylor							x #:			J	7.00	1			1			1					
FOR LAB USE ONLY			П		MATI	RIX		PR	ESER	₹V.	SAMPL	ING												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	I how do	Hd	B-Tex						-			8 14
1	SPI Surface	6	1		X				X	1	7-31-18	8:15 AM	Х	X	X							Parada		
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		6	1		X				×			8:45 AM		X										
4	SP1 8 91	6	1		X				X		7-31-18	9:05 AM 9:88 AM	X	X										
5	SPI @ 121	6	1		X	<u> </u> .			7	_ 7	-31-18	9 BAN	X	X										
6	P10151	6	1		X				>	1	7-31-18	9:15 AM	X	X	X		1	8		14				
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8	SPIRZI'	6	4		Y				>	_ 7	-31-18	9:30 AM	入	X.					Contraction Constitution					
7	SP1824'	6	Li.		X				7		7-31-18	9:30 AM	X	X				×						
10	SP1 R 27	6	1		X				X	17		9:35 AM	X	X	THE STATE OF THE S		19							
analyses. All claims includi service. In no event shall C	Tirge: 5.0	all be deeme luding without by Cardina	d waiv ut limit 1, rega	ed unless ation, busi	made in v	riting ruption ch cla	and rece ns, loss o	elved b of use, sed up	or loss on any o	nal with of profit of the a	nin 30 days after ts incurred by o bove stated re	er completion of t client, its subsidia	he applications, se. sult: It:	Ye	s 🗆	No No	Add'I		#:					
Delivered By	: (Circle One) #75			Sai	mple C	ono	lition	1	CHE	CKE	D.BY:	g g			25		6		£					

Sample Condition
Cool Intact
Yes Yes
No No No

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: 4,39



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/26/2024 1:59:45 PM

101 East Marland, Hobbs, NM 88240

Company Name	e: Procest Courses	470					T			3	/4 <i>5</i> /4	3						ΔΝΔ	LYSI	S RE	OUI	ST			
Project Manage	Et Caprock Services Trylor		-	-		71.11		P.0	. #:						ľ	Ī	T		1	T	T T				
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	gkn State: Wi	M Zip	: 8	8Z	10			Attr	1: -	Tom	my You	K							1						
	5-704-2718 Fax#:							Ado	iress	: HI	PU I	Z/X	5464												
Project #:	Project Own	ner: 🗡	=n	evsi	<u></u>			City	. 5	on	noke	0,-0	70.1				34 a								
Project Name:			71.	1							Zip: 7	92	10									i	l		
Project Locatio	n:										32.20													(96)	
Sampler Name:	Star Tuylor		X-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Andrew Commen		A		Fax		• /			-90-												
FOR LAB USE ONLY		T	П		MA	TRIX	_	THE OWNER OF THE OWNER,		ERV	SAMI	PLIN	IG												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATI	E	TIME	Chlorick	Hdl	B 76x	2								
l n	SP18 30'	6)		X				×		7-3/-19	3 6	3.45 AH	X	X	X									
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19	SPZU 39'	6	1		×			-	>	(7-31-1	8/	0:36M	X	X	ļ.,_	<u> </u>					_			
PLEASE NOTE: Liability a	SP26 45° and Damages. Cardinal's liability and client's exclusive remedy	for any clai	m arisk	ng wheth	or based	in co	ntract o	r tort,	shall be	e limited	7-51-1	paid	10;50 AN	the	X	Ň		7							
analyses. All claims includ	ing those for negligence and any other cause whatsoever shall Cardinal be liable for incidental or consequental damages, inclu	be deeme	d waive	d unless	made in	writin	g and r	ecelv	ed by C	ardinal	within 30 days	after	completion of the	e applica	ble										
Relinquished	ing out of or related to the performance of services hereunder	by Cardinal	regan	dless of v	vhether	such c	laim is	based	upon a	any of th	ne above state	d reas	ons or otherwise Phone Res	е	□ Ye	s D	No	Add'l	Phone	#:					
Me	1/31/1 Times: 3:	5/	W	d	i		1	le	M	5	on		Fax Result REMARKS	t:	□ Ye		No		Fax #:						
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	Time:											1				2	115	h!							
Delivered By	: (Circle One) #75			Sa	mole	Cor	ditio	n	C	HECK	(ED BY:	-				P		0.3							

CHECKED BY:

Sample Condition Cool Intact
Yes Yes
No No



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/26/2024 1:59:45 PM

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

Company Nam	e: Caprock Services									4]/[L 170	## ###################################							ANA	LYS	IS R	EQ	UES	ST			
Project Manage	er: Steve Jullar							P.0	0. #.										1				T			T	T	
Address: Pc	Box 457							Со	mpa	any:	E	Nergen	٠														1	
City: Lovi	y den State: WM	Zip	: 2	582	260			Att	tn:	10	M	My Y	ork															
Phone #: 575	- 704-2718 Fax#:						Anison Gran	Ad	ldre	ss:/ _/	KZ	4 54	16 H											n .				1
Project #:	Project Owne	r: Z	En	erse	VL							noke										ľ						
Project Name:									2000			Zip: 793	3.6				50							3				
Project Location										12-72-90		-209		3														
Sampler Name:	Stude Tutter		ener a traduc	300 HE B. H. S. 455					x #:																			
FOR LAB USE ONLY		T			MA	ATRI	X		PRE	SER	v.	SAMPL	ING									8					2	1
Lab I.D. H8 <i>020</i> 84	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIM	E	Chloride	no-	1/2	T' LEX										
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service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive remedy for a ing those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by C	deeme	i waive It limita	ad unles ation, bu	s made siness ir	in writi	ing and	recen	ved by	Cardina r loss o	al with	in 30 days aft	er completion	n of the	e applicat	ble				14								
Relinquished B	y: Daye: 31/18			red E		2	A	le	N	DI	01	1	Phone Fax Re REMAI	Res sult	ult: :	□ Y	es	□ No	0	Add'l Add'l	Fax #:	#:						
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Sampler - UPS	- Bus - Other: 4.30 4.7	25	0	[Ye No	inta s	Yes		(A	型	(e)			Q.							12						



November 08, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 10:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

гах

Received: 11/02/2018 Reported: 11/08/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: EAST @ 1' (H803144-01)

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.199	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.8-14	2						
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	11/06/2018	ND	416	104	400	3.77	
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*	13.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	406	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	62.5	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 11/02/2018 Reported: 11/08/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NORTH @ 1' (H803144-02)

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	0.085	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.247	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	0.332	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	12						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	2300	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	482	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	173	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 11/02/2018 Reported: 11/08/2018

 11/02/2018
 Sampling Date:

 11/08/2018
 Sampling Type:

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

11/02/2018

Soil

Sample ID: WEST@ 1' (H803144-03)

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/06/2018	ND	416	104	400	3.77	
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	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	60.1	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	36.6	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 11/02/2018 Reported:

11/08/2018

Sampling Date: 11/02/2018 Sampling Type: Soil

Project Name: Project Number:

Project Location:

STATE B NONE GIVEN **ENERGEN**

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: SOUTH @ 1' (H803144-04) RTFY 8021R

B1EX 8021B	mg,	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
	(DID 06.2	0/ /0.0.14							
Surrogate: 4-Bromofluorobenze.	ne (PID 96.2	% 69.8-14	2						

Analyzed By: me

Surrogate:	4-Bromofluorobenzene	(PID	96.2 %	69

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	11/06/2018	ND	416	104	400	3.77	
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	11/05/2018	ND	184	92.2	200	2.91	
DRO >C10-C28*	195	10.0	11/05/2018	ND	208	104	200	1.90	
EXT DRO >C28-C36	119	10.0	11/05/2018	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.6% 37.6-147

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 393-2326 FAX (5/5) 393-24/6						
Company Name: Caprock Services			Section of the sectio		ANALYSIS REQUEST	S
Project Manager: Steve Twy for		P.O. #				
Address: P.O. Box 457		Company: Energen				
State: // M	Zip: 88240	Attn: Tommy Yurk				
Phone #: (575) 704-2718 Fax #:		Address: HCRY BOX SYCA	SYLA			
	••	city: Sem: note				
Project Name:		State: 7x Zip: 79360	660		•	
Project Location: State B		Phone #: (432) 209-2483	2483			
3		Fax #:				
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING	,			
Lab I.D. Sample I.D.		ER: D/BASE: COOL	h lorich	PH -Tex		
H803144	# CO GRO	OTH		1		
(East 0 7'	×	× 11-2-18	8:00 AM Y	+		
1	× - 9	X 11-2-18	X: 10 AM X	X	The state of the s	
3 West @ 1'	6 1 2	× 11-2-18	8:15AM >	×		
South	×	× 11-2-18	8:20AW >	* *		
PLEASE NOTE: Liability and Damagns. Cardinate liability and clients 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 contra	ct or tort, shall be limited to the amount peld	by the client for the			
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walvod unless made in witing and received by Cardinal within 30 days after composition 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, entirely the consequence action on a for critical to the action of the consequence action on a for critical to the confirmance of services thereunder by Cardinal, considers so the best between any of the above stated reasons or otherwise.	deemed waived unless made in writing a g without limitation, business interruptions Cardinal, regardless of whether such clair	cause, whatscover shall be deemed walvod unless made in writing and received by Casdinal within 30 days after compidion of the questlat damages, including without limitation, business interruptions, loss of tee, or loss of profils incurred by client, its subsidiarie of services hereunder by Cardinal, regardiess of whether such claim is based upon any of the above stated reasons or otherwises,	completion of the applicable ent, its subsidiaries, sons or otherwise.		2	
Relinquished By: Date:	Received By:	(111)	Ħ	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
	Received By:	a Mhallyne		รื	And it do w.	
Delivered By: (Circle One)	at 0	ttion CHECKED BY: (Initials)		*		8
Sampler - UPS - Bus - Other: 10.10	6\8 	lo es			•	

ATTACHMENT #7

Photographic Log

PHOTOGRAPHIC LOG



Figure 1 View of surface staining from the initial release, facing East.



Figure 2 View of surface staining from the initial release, facing Northwest.

PHOTOGRAPHIC LOG



Figure 3 View of the affected area upon removal of the above-ground tanks.



Figure 4 View of drilling activities.

ATTACHMENT #8

Release Notification (FORM C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

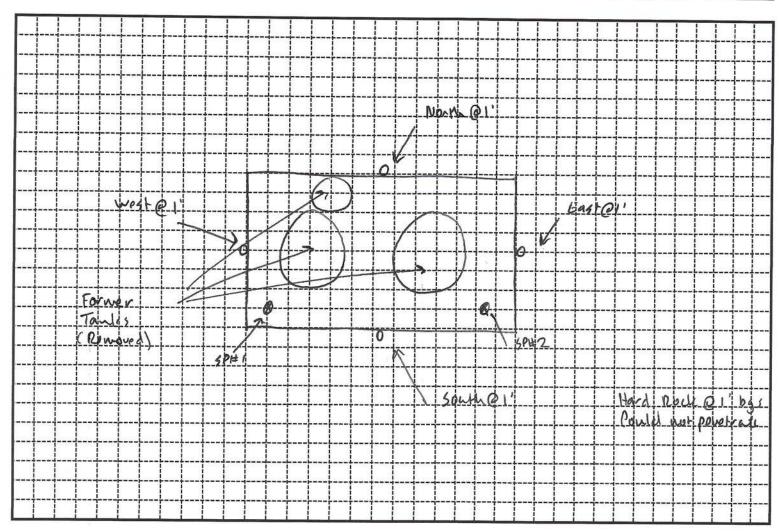
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notific	cation	and Co	rrective	Acti	ion			
						OPERA?	ГOR		x Init	ial Report		Final Repor
Name of Cor				on		Contact And	,					
Address 351		et, Midland, T	X 79705				No. 432-686-3					
Facility Nam	ne State B					Facility Typ	e Oil and Gas P	Producti	on Facility			
Surface Own	ier Dan Fie	eld/Branch Ranc	h	Mineral C)wner	State of New M	exico		API No	30025027)9	
				LOCA	TIOI	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	Ea	ast/West Line	County		
J	1	16S	35E	4610	FSL		2301		FEL	LEA		
			Latitu	de 32.9565239	Lc	ngitude10	03.4101334	NA	D83			
				NAT	URE	OF RELI	EASE					
Type of Releas	se Crude Oi	il					Release 136 bar	rels	Volume I	Recovered ()	
Source of Rele	ase Oil Tan	k				Date and H	our of Occurren	nce 5/22		Hour of Dis		6/1/18
Was Immediat	e Notice G		Yes x	No Not Re	ouired	If YES, To	Whom?					
By Whom?			103 [X	THO LINGUIS		Date and H						
Was a Waterco	ourse Reac	hed?					ume Impacting	the W	Vatercourse			
			Yes X	No	12	11 125, 10	ame impacting	5 the V	vatercourse.			
If a Watercours	se was Imp	acted, Descri	be Fully.*									
Describe Cause Corrosion caus				Taken.* and release fluid.	The fluid		CHernan		at 2:31	om, Jui	1 04	, 2018
Describe Area				en.* ation will be as so	00.00.00	ceible						
					-							
regulations all of public health or should their ope	operators a r the environ erations ha ment. In add	are required to conment. The a live failed to ac dition, NMOC	report and eceptance dequately D accepta	is true and compled or file certain re of a C-141 report investigate and reance of a C-141 re	lease not t by the I mediate	tifications and NMOCD mar contamination	l perform corre ked as "Final R n that pose a th	ective a Report' areat to	actions for rele does not relie ground water	ases which in we the opera	may en tor of l	idanger liability man health
Signature:	July	4 W	3				OIL CON	ISER	EVATION	DIVISIO	N	
Printed Name:	Andy Cobb				A	pproved by E	nvironmental S	Special	list:	_+		
Title: Director	EH&S				A	pproval Date	6/4/201	8	Expiration I	Date:		
E-mail Address:	: andy.cob	b@energen.c	om		C	onditions of A	Approval:				_/	
Date: 6/4/2018				432-686-3599			ned direct	ive		Attached	☑ ′	
Attach Additio	nal Sheet	s If Necessa	ry		1F	RP-5082		CH1	8155528	62		
					pC	CH18155	54047					

ATTACHMENT #9 Field Data

Site Name: State B

Date: 11/2/2018



Hard Rock @ 1' bgs. Could not penetrate

Field ID	Odor/PID	Chloride
Worthel'	None	330
Easto1'	Slight	4120
304401'	Nove	2,652
WOSTO 1'	None	942

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride
	1	

Field ID	Odor/PID	Chloride
	1	
	+ +	

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

From: Hernandez, Christina, EMNRD

To: "Mann, Ryan"; "Joel Lowry"

Subject: RE: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan

 Date:
 Wednesday, January 16, 2019 10:36:00 AM

 Attachments:
 1RP-5082 - State B - C-141 Pages1-5Signed.pdf

image001.png

1RP-5082 - State B - Site Assessment Report and Proposed Remediation Plan (2).pdf

Mr. Lowry:

NMOCD approves of the delineation completed for **1RP-5082**. The proposed remediation and sampling plan are also approved with these conditions:

- Confirmation sampling must include the sidewall at the border between the different depths of excavation for SP1 and SP2 areas.
- Excavated material must be placed on liner pending transport.
- Dated photo documentation of the remedial activities.
- Scaled map with the confirmation sample locations in relation to the delineation sample points.

Thanks,

Christina Hernandez
EMNRD-OCD
Environmental Speciali

Environmental Specialist 1625 N. French Drive Hobbs, NM 88240 575-393-6161 ext. 111

Christina.Hernandez@state.nm.us

From: Mann, Ryan <rmann@slo.state.nm.us> Sent: Thursday, January 3, 2019 11:18 AM

To: 'Joel Lowry' <joel@lowryenvironmental.com>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>

Subject: [EXT] RE: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan

Good morning Mr. Lowry,

NMSLO approves of the proposed with the following comments:

• Confirmation samples need to be taken on the sidewall of all excavation of differing depths. SP1 and SP2 will most like have differing depth. The North @1' looks like it will be a separate excavation and will not adjoin.

Approval is also necessary from NMOCD.

From: Joel Lowry [mailto:joel@lowryenvironmental.com]

Sent: Wednesday, December 19, 2018 2:35 PM

To: christina.hernandez@state.nm.us; Mann, Ryan rmann@slo.state.nm.us;

Subject: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan

Please find attached the *Site Assessment Report and Proposed Remediation Plan* along with pages from the Form C-141, that has been prepared for Energen's State B. The Site is located on State Land in UL "J", Section 1, Township 16 South, Range 35 East in Lea County, New Mexico. Upon your review and approval, Energen is prepared to continue remediation activities as outlined within the attached. If you have any questions or need any additional information, please feel free to contact myself or Tommy York by phone or email. Thanks.

Respectfully,

Joel Lowry

Environmental Professional



PO Box 896 Lovington, NM 88260 Direct 432-466-4450

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 $\label{thm:log-will-bound} PmehniHzHDg8wliwuPbigvv1lcHOHjHFgD4QOBJfJDw8r0x8Zuv03h_Ntm8cw3z2_zk5FSTzQ0il5D75oiSyAjjjJsLj2QTZQ4DT-15TY5IsMWVgL-j35E0go4Q4EzKdplkDsAQTH9MYGBbrVD6VjvDUXe8a6FAWrc8rkGDJeSrg8B4U-slC-O9dzxf8hvS9EPiQ6-qrRn8Tf1hmH2g_Q-6lpPHGHt0XiktdNNQUFGrXzJl22a_CDQtt7PcEbTTjgXovvLqWzx1-4foqnmctWU1B-tHEeCVZtlJY6LEKXhPtz8Cx2d_seRwoWs6T9G9eaWqT6iMv9-harYAk7wlQVEFTC28tpiLDJoZv3-9HyZw%3D%3D&u=http%3A%2F%2Fwww.symanteccloud.com$

nCH1815552862

30-025-02709

pCH1815554047

1RP-5082

Incident ID

District RP

Facility ID

Application ID



May 27, 2019

Dylan Rose-Coss New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Re: Site Assessment and Closure Report

Site Name: State B

GPS: Latitude: 32.95652 Longitude: -103.41013

Legals: UL "J", Sec. 1, T16S, R35E

Lea County, New Mexico
NMOCD Ref. No. 1RP-5082

Lowry Environmental & Associates, LLC (LEA), on behalf of Energen Resources Corporation, has prepared this Site Assessment and Closure Report for the Release Site known as the State B. Details of the release are summarized on the table below:

Date Release Discovered	6/1/2018	Source of Release	Tank Battery
Tune of Pologo	Crude Oil	Volume Released (bbls)	136
Type of Release	Crude Oil	Volume Recovered (bbls)	None
Cause of Release			
A noie developed in the on to	ilik as a result of Corrosion, the fit	iid was not immediatedly discovered.	
		·	
Affected Avec			
Affected Area The release affected and area	a within an unlined earthen conta	inment.	
	T	inment. his considered a major release?	
The release affected and area Was this a major release?	T	his considered a major release?	
The release affected and area	T		
The release affected and area Was this a major release? Yes	If YES, for what reasons (s) is t	his considered a major release?	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization					
What is the shallowest depth to groundwater beneath the area affected by the release?	>63'				
Did this release impact groundwater or surface water?	No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	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)?	No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	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?	No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No				
Are the lateral extents of the release within 300 feet of a wetland?	No				
Are the lateral extents of the release overlying a subsurface mine?	No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	No				
Are the lateral extents of the release within a 100-year floodplain?	No				
Did the release impact areas not on an exploration, development, production or storage site?	No				

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (L10272) within 1,000 ft. of the Site. A field survey indicated available geographic information for L10272 was outdated and/or incorrect; there was no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release							
Benzene 10 mg/kg							
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg						
Total Petroleum Hydrocarbons	2,500 mg/kg						
Combined GRO and DRO	1,000 mg/kg						
Chloride	10,000 mg/kg						

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

INITIAL SITE ASSESSMENT

On **July 31, 2018**, two (2) investigative soil bores (SP-1 and SP-2) were advanced at the Site in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. Soil bore SP-1 was advanced to a depth of 30 ft. bgs. During the advancement of the soil bore, 10 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 12 ft. bgs in the area represented by soil bore SP-1.

Soil bore SP-2 was advanced to a depth of 63 ft. bgs. During the advancement of the soil bore, 14 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 9 ft. bgs in the area represented by soil bore SP-1.

On **November 2, 2018,** four (4) soil samples (North @ 1', East @ 1', South @ 1' and West @ 1') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample North @ 1', which exhibited a GRO+DRO concentration of 2,311.4 mg/kg and a TPH concentration of 2,793.4 mg/kg. Collection of soil samples from deeper intervals was precluded due to the presence of an impenetrable rock layer.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided on the following page:

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

		Conce	ntrations	of BTEX, T	PH and/o	r Chloride	in Soil - I	nitial Asse	ssment(s)		
				SW 846	8021B	SW 846 8015M Ext.					E300/4500Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{aligned} GRO + DRO \\ C_6\text{-}C_{28} \\ (mg/kg) \end{aligned}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1 @ Surf.	7/31/18	0-6"	In-Situ	2.79	307	2,530	29,500	32,030	3,790	35,820	96.0
SP1 @ 3'	7/31/18	3'	In-Situ	-	-	389	4,400	4,789	447	5,236	1,260
SP1 @ 6'	7/31/18	6'	In-Situ	-	-	1,140	6,980	8,120	837	8,957	480
SP1 @ 9'	7/31/18	9'	In-Situ	-	-	112	1,490	1,602	204	1,806	96.0
SP1 @ 12'	7/31/18	12'	In-Situ	-	-	<10.0	31.0	31.0	<10.0	31.0	48.0
SP1 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	47.4	47.4	<10.0	47.4	32.0
SP1 @ 18'	7/31/18	18'	In-Situ	-	-	<10.0	21.2	21.2	<10.0	21.2	32.0
SP1 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP1 @ 24'	7/31/18	24'	In-Situ	-	-	<10.0	198	198	68.5	266.5	48.0
SP1 @ 27'	7/31/18	27'	In-Situ	1	1	<10.0	309	309	27.8	336.8	48.0
SP1 @ 30'	7/31/18	30'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP2 @ Surf.	7/31/18	0-6"	In-Situ	<1.00	157	877	7,500	8,377	601	8,978	800
SP2 @ 3'	7/31/18	3'	In-Situ	-	i	2,680	12,300	14,980	1,430	16,410	352
SP2 @ 9'	7/31/18	9'	In-Situ	-	-	33.3	556	589	45.0	634.3	1,410
SP2 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SP2 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
SP2 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
SP2 @ 33'	7/31/18	33'	In-Situ	1	i	30.0	388	418	68.8	486.8	1,090
SP2 @ 39'	7/31/18	39'	In-Situ	-	-	<10.0	66.4	66.4	14.8	81.2	720
SP2 @ 45'	7/31/18	45'	In-Situ	<0.050	<0.300	<10.0	29.1	29.1	<10.0	29.1	368
SP2 @ 48'	7/31/18	21'	In-Situ	-	-	<10.0	49.6	49.6	<10.0	49.6	368
SP2 @ 54'	7/31/18	21'	In-Situ	-	-	<10.0	34.5	34.5	<10.0	34.5	256
SP2 @ 57'	7/31/18	57'	In-Situ	-	-	<10.0	50.6	50.6	<10.0	50.6	224
SP2 @ 60'	7/31/18	60'	In-Situ	-	-	<10.0	37.6	37.6	<10.0	37.6	128
SP2 @ 63'	7/31/18	63'	In-Situ	<0.050	<0.300	<10.0	144	144	41.5	185.5	128
East @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	13.4	406	419.4	62.5	481.9	64.0
North @ 1'	11/2/18	1'	In-Situ	<0.050	0.332	11.4	2,300	2,311.4	482	2,793.4	480
West @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	60.1	60.1	36.6	96.7	1,060
South @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	195	195	119	314	3,080
Closure Criteria		10	50	-	-	1,000	-	2,500	10,000		

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Energen Resources Corporation proposes the following remediation activities designed to advance the Site toward an approved closure:

- •Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample point SP-1 to a depth beyond 9 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- •Excavate impacted soil within the release margins in the area characterized by sample point SP-2 to a depth beyond 3 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- •Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria. This will include the impacted area characterized by soil sample North @ 1'.
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft**. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **1,070 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

NMOCD APPROVALS/STIPULATIONS

On December 19, 2018, a Site Assessment Report and Proposed Remediation Plan was submitted to the NMOCD and NMSLO proposing remediation activities designed to advance the Site toward and approved closure.

The Site Assessment Report and Proposed Remediation Plan was subsequently approved. Please reference the associated Site Assessment Report and Proposed Remediation Plan that was submitted 1RP-5082 for for additional details.

REMEDIATION ACTIVITIES SUMMARY

On **February 4, 2019,** remediation activities commenced at the release site. Impacted soil within the release margins was excavated and stockpiled on-site, atop an impermeable plastic liner, pending final disposition. The floor and sidewalls of the excavation were advanced until field test results suggested concentrations of BTEX, TPH and chloride were below the NMOCD Closure Criteria.

On **February 19, 2019**, twenty-nine (29) excavation confirmation soil samples (Floor #1 - Floor #20, NSW 1, NSW 2, ESW 1, ESW 2, SSW 1, SSW 2, WSW 1, WSW 2 and) WSW 3 GC were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of BTEX, TPH and/or chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples Floor #2, which exhibited a TPH concentration of 4,842 mg/kg, Floor #7, which exhibited a GRO+DRO concentration of 1,051 mg/kg, Floor #8, which exhibited a GRO+DRO concentration of 1,241 mg/kg, soil sample Floor #10, which exhibited a TPH concentration of 3,506 mg/kg, soil sample Floor #11, which exhibited a TPH concentration of 2,737 mg/kg, Floor #13, which exhibited a TPH concentration of 4,830 mg/kg, SSW 1, which exhibited a GRO+DRO concentration of 1,010 mg/kg and WSW 3 GC, which exhibited a GRO+DRO concentration of 1,281.0 mg/kg.

In addition, two (2) grab soil samples (Floor Stain @ 10' and Floor Stain @ 4') were collected from stained areas within the floor of the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples.

Impacted soil affected above the NMOCD Closure Criteria represented by soil samples Floor #2, Floor #7, Floor #8, Floor #10, Floor #11, Floor #13, Floor Stain @ 10' and Floor Stain @ 4' was excavated.

On March 1, 2019, ten (10) excavation confirmation soil samples (Floor 8B, Floor 7 B, Floor 10 B, Floor 11 B, Floor 2 B, Floor Stain @ 11.5'B, Floor Stain @ 5'B, SSW 1 B and WSW 3 GC B) were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

On March 19, 2019, twelve (12) excavation confirmation soil samples (Floor #2 N. Wall, Floor #2 E. Wall, Floor #2 S. Wall, Floor #3 E. Wall, Floor #6 S. Wall, Floor #7 E. Wall, Floor #11 S. Wall, Floor #11 E. Wall, Floor #11 N. Wall, Floor #9 E. Wall, Floor #13 S. Wall and Floor #13 E. Wall) were collected from the interior sidewalls of the excavated area and submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

A table summarizing laboratory analytical results from confirmation soil samples is provided on the following page:

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

	Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples										
	SW 846 8021B SW 846 8015M Ext.							E300/4500Cl			
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Floor #1	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	82.1	82.1	12.5	94.6	192
Floor #2	2/19/19	10'	Excavated	<0.050	7.00	560	3,710	4,270	572	4,842	416
Floor #3	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	307	307	45.9	352.9	400
Floor #4	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
Floor #5	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
Floor #6	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	228	228	23.8	251.8	2,120
Floor #7	2/19/19	10'	Excavated	<0.050	0.391	10.6	1,040	1,051	319	1,369.6	560
Floor #8	2/19/19	10'	Excavated	<0.050	0.450	30.6	1,210	1,241	225	1,465.6	1,840
Floor #9	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	140	140	50.8	190.8	1,340
Floor #10	2/19/19	4'	Excavated	<0.050	0.330	26.0	2,490	2,516.0	990	3,506	2,120
Floor #11	2/19/19	4'	Excavated	<0.050	1.09	17.2	2,100	2,117.2	620	2,737	1,230
Floor #12	2/19/19	4'-12'	In-Situ	<0.050	<0.300	<10.0	895	895	286	1,181	1,680
Floor #13	2/19/19	4'	Excavated	<0.050	34.7	503	3,350	3,853.0	977	4,830	240
Floor #14	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	111	111	50.6	161.6	128
Floor #15	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	479	479	108	587	592
Floor #16	2/19/19	4'-12'	In-Situ	<0.050	<0.300	<10.0	50.4	50.4	18.6	69.0	384
Floor #17	2/19/19	4'	In-Situ	<0.050	0.598	10.4	403	413.4	79.2	492.6	240
Floor #18	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	481	481	98.9	579.9	464
Floor #19	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	50.2	50.2	<10.0	50.2	544
Floor #20	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	106	106	24.1	130.1	288
NSW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	306	306	132	438	400
NSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	49.7	49.7	<10.0	49.7	320
ESW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	58.7	58.7	<10.0	58.7	144
ESW 2	2/19/19	n/a	In-Situ	<0.050	0.338	<10.0	344	344	85.7	429.7	272
SSW 1	2/19/19	n/a	Excavated	<0.050	<0.300	<10.0	1,010	1,010	202	1,212	1,070
SSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	98.9	98.9	52.8	151.7	1,120
WSW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
WSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	148	148	15.7	163.7	832
WSW 3 GC	2/19/19	n/a	Excavated	<0.050	<0.300	11.0	1,270	1,281.0	368	1,649.0	1,220
Floor Stain @ 10'	2/19/19	10'	Excavated	<0.050	6.00	132	2,310	2,442	661	3,103	800
Floor Stain @ 4'	2/19/19	4'	Excavated	<0.050	8.27	147	2,960	3,107	967	4,074	672
Floor 8 B	3/1/19	11.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Floor 7 B	3/1/19	11.5'	In-Situ	-	-	<10.0	265	265	42.2	307.2	-
Floor 10 B Floor 13 B	3/1/19	5' 5'	In-Situ	-	-	<10.0	184	184	22.9	206.9	-
Floor 13 B Floor 11 B	3/1/19 3/1/19	5'	In-Situ In-Situ	-	-	<10.0 <10.0	95.2 258	95.2 258	10.4 46.5	105.6 304.5	-
Floor 2 B	3/1/19	11.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
loor Stain @ 11.5' I	3/1/19	11.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Floor Stain @ 5'B	3/1/19	5'	In-Situ	-	-	<10.0	29.6	29.6	<10.0	29.6	-

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

	Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples (Cont.)										
				SW 846 8021B		SW 846 8015M Ext. E300				E300/4500Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{aligned} &GRO + DRO \\ &C_6\text{-}C_{28} \\ &(mg/kg) \end{aligned}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SSW 1 B	3/1/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
WSW 3 GC B	3/1/19	n/a	In-Situ	-	1	<10.0	<10.0	736	145	881	-
Floor #2 N. Wall	3/19/19	n/a	In-Situ	-	1	<10.0	<10.0	<10.0	<10.0	<10.0	160
Floor #2 E. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
Floor #2 S. Wall	3/19/19	n/a	In-Situ	-		<10.0	14.5	14.5	<10.0	14.5	160
Floor #3 E. Wall	3/19/19	n/a	In-Situ	-		<10.0	<10.0	<10.0	<10.0	<10.0	96.0
Floor #6 S. Wall	3/19/19	n/a	In-Situ	-		<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Floor #7 E Wall	3/19/19	n/a	In-Situ	-		<10.0	<10.0	<10.0	<10.0	<10.0	224
Floor #11 S. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	832
Floor #11 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	11.0	11.0	<10.0	11.0	704
Floor #11 N. Wall	3/19/19	n/a	In-Situ	-		<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Floor #9 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	704
Floor #13 S Wall	3/19/19	n/a	In-Situ	-	-	<10.0	39.3	39.3	<10.0	39.3	1,070
Floor #13 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	54.9	54.9	<10.0	54.9	912
	Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally-sourced, non-impacted, "like" material. Excavation was backfill was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to an active caliche production pad. Restoration, final reclamation and re-vegetation will be conducted in accordance with NMAC 19.15.29.13 once the facility is no longer needed for production or subsequent drilling operations.

CLOSURE REQUEST

Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria. Between February 13, and March 12, 2019, approximately 4,540 cubic yards of impacted soil was transported to an NMOCD-approved disposal facility. The final dimensions of the excavation were approximately 108 Ft. in length, 96 Ft. in width and ranged in depth from 4 Ft. to 11.5 Ft.

Based on laboratory analytical results, field activities conducted to date and conditions at the site, LEA recommends Energen Resources Corporation provide a copy of this Remediation Summary and Closure Report to the NMOCD and request closure be granted to the State B Site.

Respectfully,

Joel W. Lowry

Environmental Professional

Lowry Environmental & Associates, LLC

Attachments: Attachment #1- Figure 1 - Topographic Map

Attachment #2- Figure 2 - Aerial Map

Attachment #3- Figure 3 - Site & Sample Location Map
Attachment #4- Depth to Groundwater Information

Attachment #5- Soil Profile

Attachment #6- Laboratory Analytical Reports

Attachment #7- Photographic Log

Attachment #8- Release Notification (FORM C-141)

Attachment #9- Field Data

LIMITATIONS

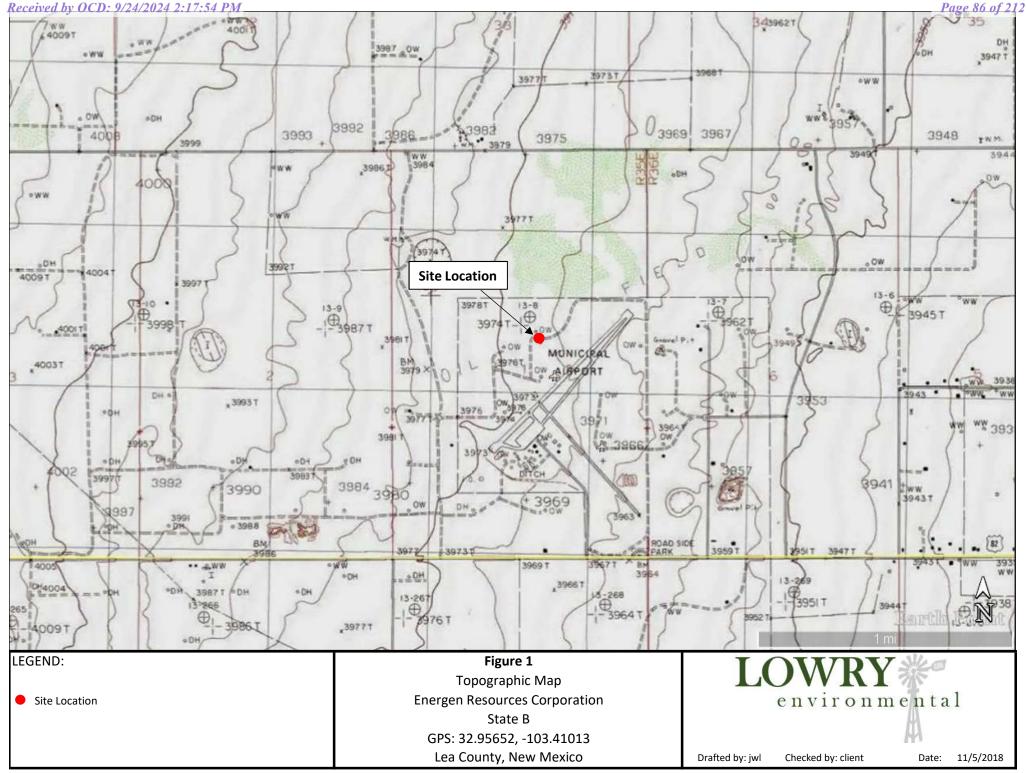
This document has been prepared on behalf of Energen Resources Corporation. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Energen Resources Corporation is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

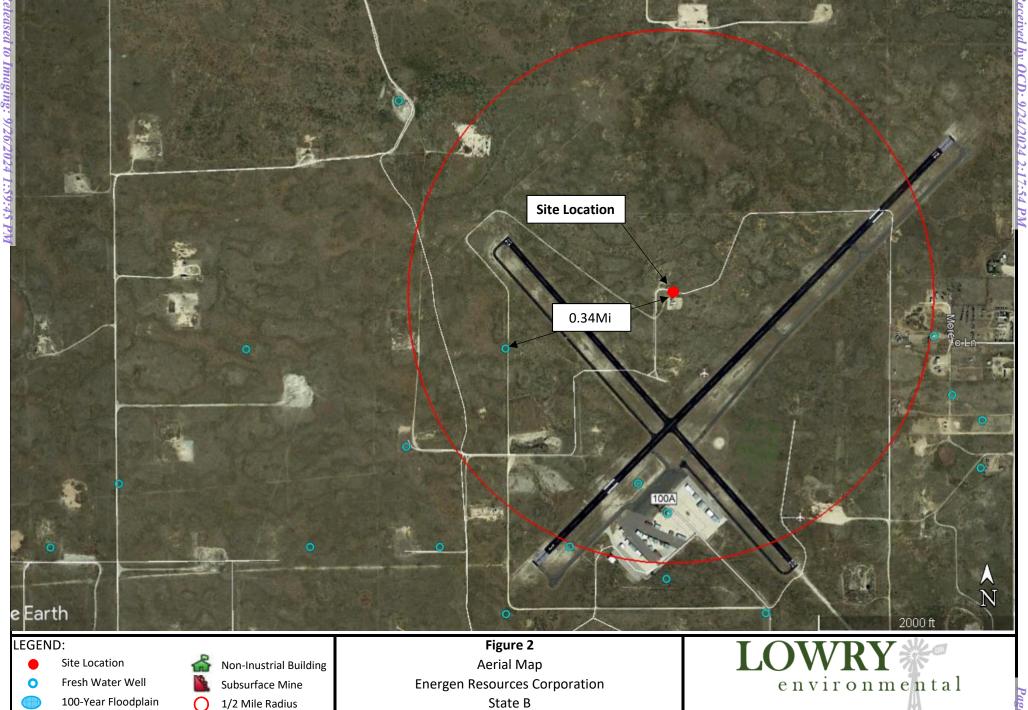
ATTACHMENT #1

Figure 1 - Topograpic Map



ATTACHMENT #2

Figure 2 - Aerial Map



GPS: 32.95652, -103.41013 Lea County, New Mexico

Drafted by: jwl

Checked by: client

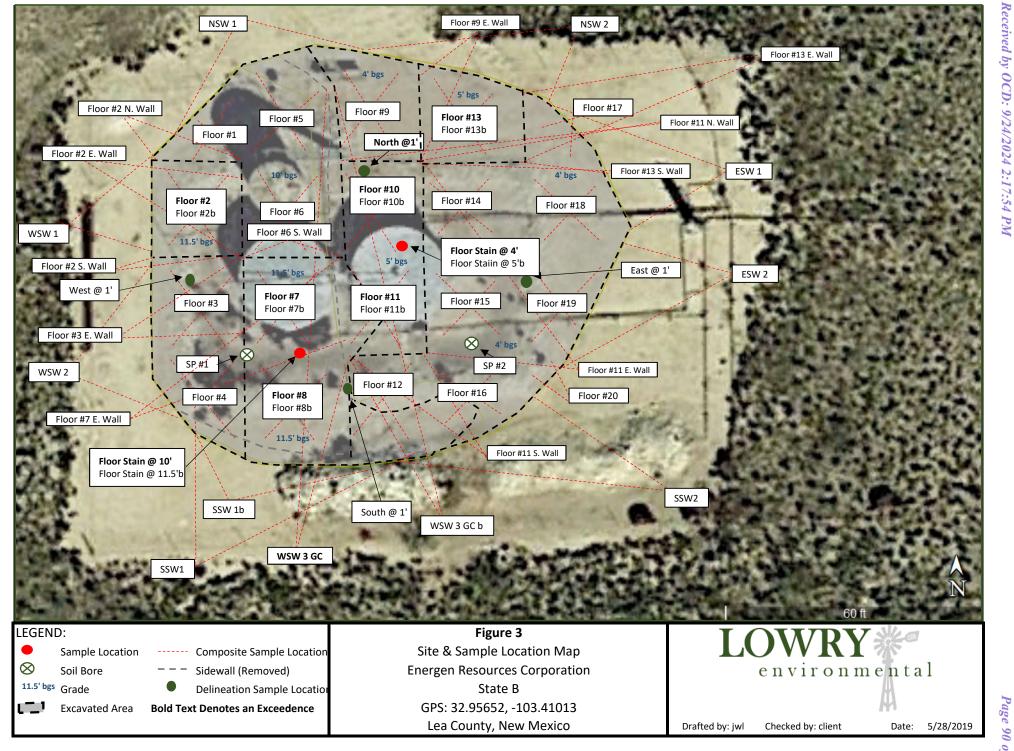
High/Critical Karst

Page 88 of 21

Date: 11/9/2018

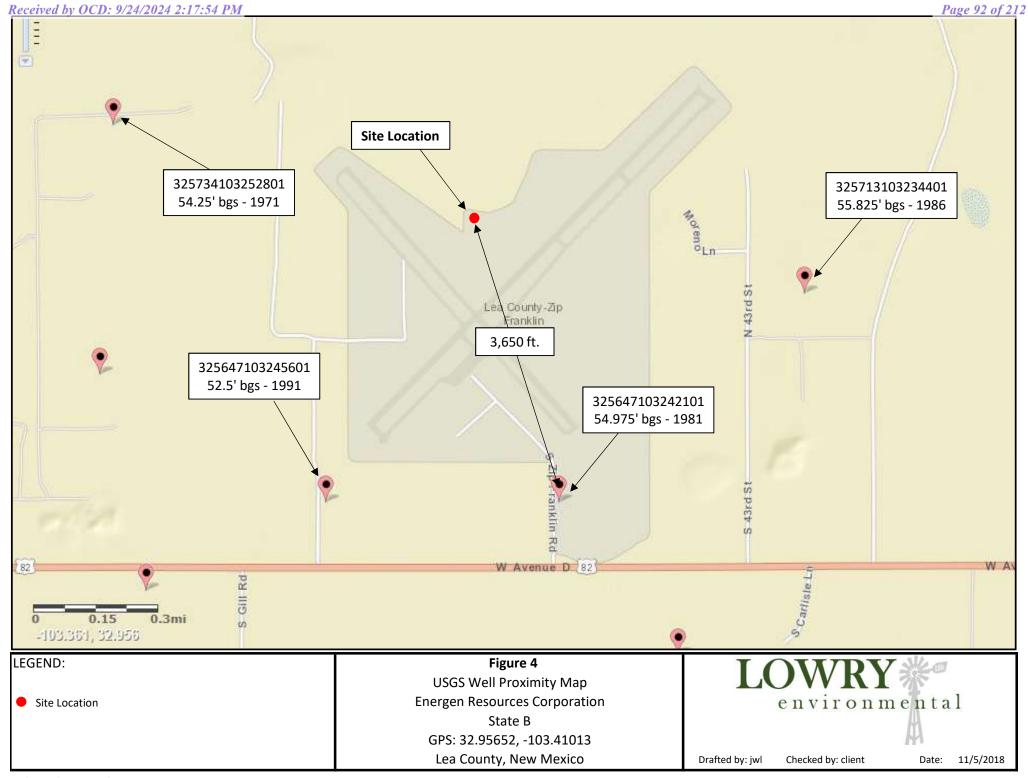
ATTACHMENT #3

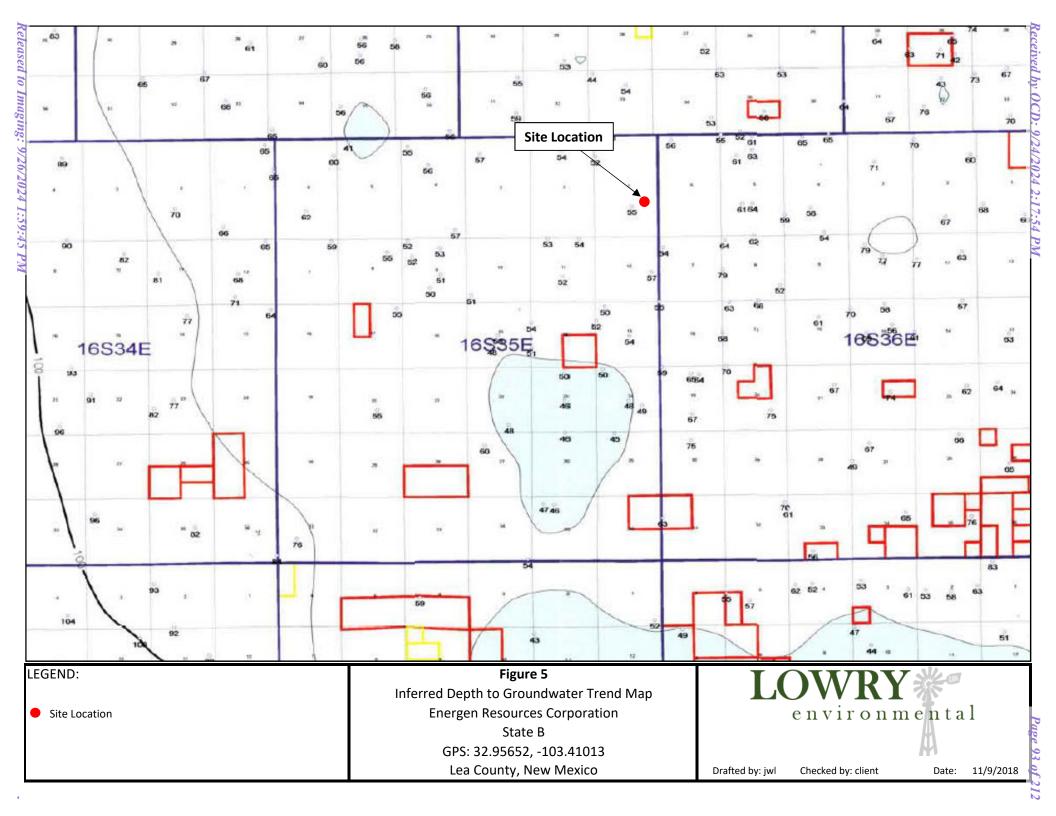
Figure 3 - Site & Sample Location Map



ATTACHMENT #4

Depth to Groundwater Information







USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

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- Please see news on new formats
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site no list =

325713103234401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325713103234401 16S.36E.06.112414

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code -Latitude 32°57'13", Longitude 103°23'44" NAD27
Land-surface elevation 3,957 feet above NAVD88
The depth of the well is 102 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

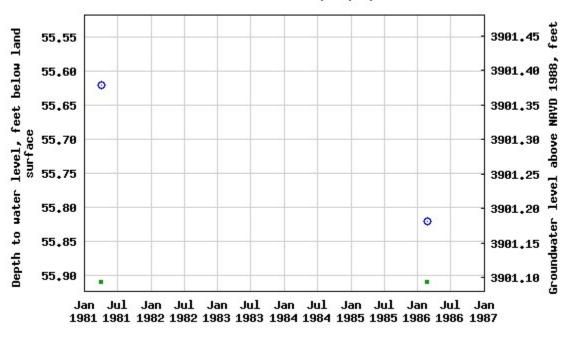
Output formats

Table of data		
Tab-separated data		

Graph of data

Reselect period

USGS 325713103234401 16S.36E.06.112414



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-11-05 12:36:20 EST

1.08 0.94 nadww01





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National Water Information System: Web Interface

HECE	Water	Daca	IIKOOO
uaua	vvalei	RESU	LILLES

Data Category:	Geographic Area:		
Groundwater	✓ United States	∨ G	0

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- Please see news on new formats
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

325647103242101

Minimum number of levels = 1

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USGS 325647103242101 16S.35E.01.41120

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code -
Latitude 32°56'47", Longitude 103°24'21" NAD27

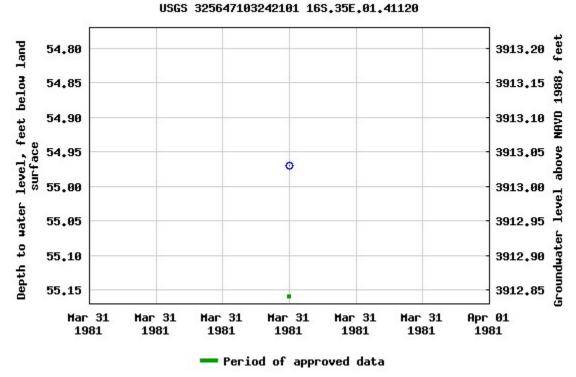
Land-surface elevation 3,968 feet above NAVD88

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data		
Tab-separated data		
Graph of data		

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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7.04 0.9 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

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- Please see news on new formats
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325647103245601

Minimum number of levels = 1

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USGS 325647103245601 16S.35E.01.131312

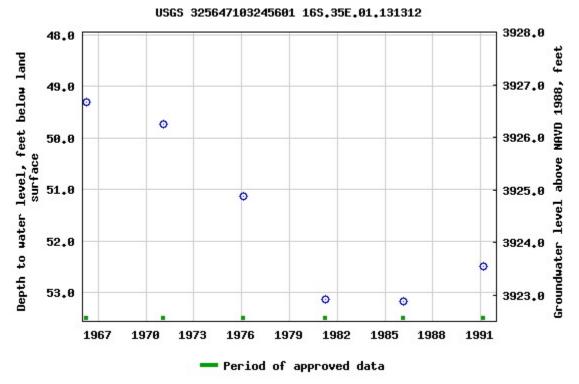
Available data for this site	Groundwater:	Field measurements	GO
Lea County, New Mexico			<u></u>
Hydrologic Unit Code 12080	0003		
Latitude 32°56'47", Longit	ude 103°24	l'56" NAD27	
Land-surface elevation 3,97	76 feet abov	ve NAVD88	
The depth of the well is 75	feet below	land surface.	
This well is completed in th	e Ogallala F	Formation (12100	GLL) local aquifer.

Output formats

Table of data		
Tab-separated data		

Graph of data

Reselect period



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U.S. Department of the Interior | U.S. Geological Survey

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1 0.88 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

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- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325734103252801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325734103252801 16S.35E.02.211134

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°57'34", Longitude 103°25'28" NAD27

Land-surface elevation 3,989 feet above NAVD88

The depth of the well is 100 feet below land surface.

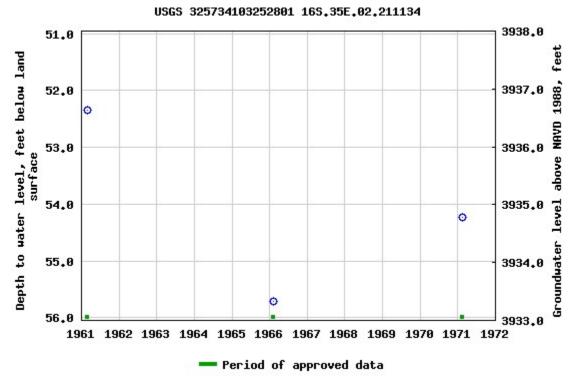
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data		
Tab-separated data		

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-11-05 12:41:54 EST

1.02 0.89 nadww01





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD														
		Sub-		Q	Q	Q									1	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y		DistanceDep	thWellDep	thWater C	olumn
<u>L 10272</u>		L	LE	4	2	1	01	16S	35E	648409	3647475*	m	228	120	80	40
<u>L 05904</u>	R	L	LE			1	01	16S	35E	648116	3647369*	E	539	150	70	80
<u>L 03357</u>		L	LE				01	16S	35E	648532	3646966*	E	579	120	60	60
L 03420		L	LE				01	16S	35E	648532	3646966*	н	579	120	60	60
L. 03663 POD2	R	I.	LE	1	1	4	01	168	35E	648624	3646878*		659	164	60	104

Average Depth to Water:

66 feet

Minimum Depth:

60 feet

Maximum Depth:

80 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 648628.7 **Northing (Y):** 3647537.3 **Radius:** 805

*UTM location was derived from PLSS - see Help

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.

11/5/18 10:51 AM

WATER COLUMN/ AVERAGE DEPTH TO

ATTACHMENT #5 Soil Profile

SOIL PROFILE

-49	· 0 4		
Site Name: 5+ak	<u> </u>		Date: 7/3//2018
•			
	Description		Depth (ft. bgs)
	Top soil · Brown Hardpan	aa	ī
	Hardpan		2
		****	3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
	Caliche Ul Sand		16
			17
	,		18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			32
			33
			34
			35
			36
			37
			38

SOIL PROFILE

Site Name:_	State	" B "		Date: 7/31/2018
		Description	_	Depth (ft. bgs)
				41
		Caliene w/ Sand		2
				3
				4
				5
				6
				7
				8
				9
				30
				1
				2
		Brown Sand	manaa.	5 "3
		www my		
				4
				5
				6
				7
				8
				9
				0
				& 1
				2
				TD 3
				4
				5
				6
				7
				8
				9
				0
				1
				2
				3
				4
				5
				6
				7
				8
				9
				0
				U

20f2

ATTACHMENT #6 Laboratory Analytical Reports



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

August 01, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 07/31/18 15:25.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018
Reported: 08/01/2018
Project Name: STATE B

Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ SURFACE (H802084-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.79	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	38.3	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	53.6	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	212	3.00	08/01/2018	8/01/2018 ND		111	6.00	4.50	
Total BTEX	307	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
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	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2530	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	29500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	3790	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	321	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

Applymed By MC

Cardinal Laboratories *=Accredited Analyte

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Mule Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date:

07/31/2018

Sampling Type:

Soil

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

ma/ka

Sample ID: SP 1 @ 3' (H802084-02)

Chloride, SM4500CI-B

Analyzed By: AC

Cilioride, Si-14300Ci-D	1119	, kg	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	389	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	4400	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	447	50.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 140 % 41-142 243 % 37.6-147

Sample ID: SP 1 @ 6' (H802084-03)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	6980	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	837	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	172 %	6 41-142	,						
Surrogate: 1-Chlorooctadecane	308 %	6 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date:

Sample Received By:

07/31/2018

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 9' (H802084-04)

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	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	112	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	1490	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	204	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	137 9	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 137 % 37.6-147

Sample ID: SP 1 @ 12' (H802084-05)

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	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	31.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018
Reported: 08/01/2018
Project Name: STATE R

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 15' (H802084-06)

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	0.054	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	0.062	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	0.168	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.8-14	22						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	47.4	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 18' (H802084-07)

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	08/01/2018	ND	432	108	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	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	21.2	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Sample ID: SP 1 @ 21' (H802084-08)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 24' (H802084-09)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	198	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	68.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.3 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2 %	6 37.6-14	7						

Sample ID: SP 1 @ 27' (H802084-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	309	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	27.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported:

08/01/2018 Project Name: STATE B Project Number: Project Location:

NONE GIVEN **ENERGEN**

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 1 @ 30' (H802084-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	69.8-14	2						
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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Reported: 08/01/2018
Project Name: STATE B
Project Number: NONE GIVEN

Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ SURFACE (H802084-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	8.41	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	6.84	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	142	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	157	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	877	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	7500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	601	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	156	% 41-142	?						
Surrogate: 1-Chlorooctadecane	384	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 3' (H802084-13)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2680	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	12300	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	1430	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	247	% 41-142	?						
Surrogate: 1-Chlorooctadecane	503	% 37.6-14	7						

Sample ID: SP 2 @ 9' (H802084-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.3	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	556	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	45.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

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07/31/2018

Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 15' (H802084-15)

Received:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.5	% 37.6-14	7						

Analyzed By: MC

Cardinal Laboratories *=Accredited Analyte

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Mile Sough



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

 Received:
 07/31/2018

 Reported:
 08/01/2018

 Project Name:
 STATE B

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 21' (H802084-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	!7						

Sample ID: SP 2 @ 27' (H802084-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 33' (H802084-18)

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	388	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	68.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Sample ID: SP 2 @ 39' (H802084-19)

hloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	66.4	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	14.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

07/31/2018 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 45' (H802084-20)

Received:

Reported:

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	29.1	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 07/31/2018 Reported: 08/01/2018 Project Name: STATE B Project Number:

NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 48' (H802084-21)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	49.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	!7						

Sample ID: SP 2 @ 54' (H802084-22)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	34.5	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported: 08/01/2018

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 07/31/2018

Sampling Type: Soil

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

Sample ID: SP 2 @ 57' (H802084-23)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	50.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

Sample ID: SP 2 @ 60' (H802084-24)

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	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	37.6	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 07/31/2018 Reported:

08/01/2018 Sampling Type: Sampling Condition:

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 07/31/2018 Soil

Sample Received By:

Cool & Intact Jodi Henson

Sample ID: SP 2 @ 63' (H802084-25)

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	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	144	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	41.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142							
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

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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.

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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Mile Single





Released to Imaging: 9/26/2024 1:59:45 PM

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

	(575) 393-2326 FAX (575) 393-247	6					1000																	
Company Name	Caprock Services									BI	LE 10	# 100 7 - 200 - 111 - 11					ANAL	YSIS	RE	QUES	ST			
Project Manage	F. Steve Taylor						1	P.O). #:					E-VIII N										
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Phone #: 575	5-704-2718 Fax#:										RU Box	546 A								920				
Project #:	Project Owne	r: Æ	ner	٤Ľ٨							ndle		1											
Project Name:	State B"		0								Zip: 79_	360	1									- 1		
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FOR LAB USE ONLY			П		MA	TRIX			PRES	ERV.	SAMPL	NG	1	9							Į.	1		
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3	SP1 & 18'	6	Н		>			4	>	۲	1-31-18	9:28 AM		X										
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	nd Damages. Cardinal's liability and client's exclusive remedy for	nov clai	m arisir	a whet	her base	t in cor	tract o	- 100	shall be	Imitad														
analyses. All claims includi service. In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services hereunder by (deeme g withou Cardinal	d waive ut limita	d unles ion, bu lless o	s made in siness in whether	n writin terrupti	g and r ons, los	ecely ss of	ved by C use, or I	ardinal v	within 30 days after profits incurred by	or completion of the	ne applica ries, se.	ble Ye	, e []	No	Add'! 5	Phone #	4.					
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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 the	ne above stated reaso	ons or otherwise.				
Relinquished By:	Date IIIO F	Received By:	F	Phone Result:	☐ Yes	□ No	Add'l Phone #:	
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Sampler - Dr3 - Du3 - Other. 7.	1014.72	No No No		•			¥	



Released to Imaging: 9/26/2024 1:59:45 PM

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

	(575) 393-2326 FAX (575) 393	3-2476																								
Company Name	Caprock Services										BI	14470		New Y				AN	IAL	YSIS	RE	QUE	ST			
Project Manage	T: Steve Tuylor		-					1	P.0	. #:			V REMITSH SHEET													
Address: PU	Bux 457								Cor	npa	ny: <i>[</i>	Energer	l			1										
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	5-704-2718 Fax#:								Add	dres	s: #/	RY BUX	546A			1					-	* 1				
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Project Name:		12		- 0								Zip: 79	360		1	1		-								
Project Locatio	n:											32.209					1	-							(36)	
Sampler Name:	Stare Tuylor							1000000		#:																
FOR LAB USE ONLY			Τ	T	4	MA	RIX			PRE	SERV.	SAMPL	ING	1	1											
Lab I.D. H902094	Sample I.D.	(G)RAB OR (C)OMP.	N N	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	1hlur.ch	Md	1	P /ex						٠			
11	SP1@ 30'	6	1)			X				1	X	7-3/-18	9.45 AM	X	X	X										Annual Marcheston
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analyses. All claims includ service. In no event shall of affiliates or successors aris	nd Damages. Cardinal's liability and client's exclusive rem ing those for negligence and any other cause whatsoever cardinal be liable for incidental or consequental damages, ing out of or related to the performance of services hereu	shall be deeme	ed wa	ived u	nless m	nade in ess int	writin errupti	g and r	ecelv	ed by ouse, or	Cardinal v	within 30 days after rofits incurred by	er completion of the client, its subsidia asons or otherwis	he applica ries, se.			7 ₆ - 2(
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affiliates or successors arising out of or related to the performa	ince of services hereunder by Cardina	al, regardless of whether such claim is base	upon any of the above stated re-	isons or otherwise.		(4)	
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		No No					



Released to Imaging: 9/26/2024 1:59:45 PM

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

Company Name	: Caprock Services						100		1	3//	44/0						ANA	LYS	S RE	QUE	ST			
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service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin, ng out of or related to the performance of services hereunder by (deeme	d waiv ut limit	ed unle	ss made ir usiness int	writing erruption	g and re	ceived b	y Cardir	nal wit	thin 30 days after	r completion of t	he applicat	ble	4									
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November 08, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 10:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 11/02/2018
Reported: 11/08/2018
Project Name: STATE B

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: ENERGEN

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: EAST @ 1' (H803144-01)

DTEV 0021D

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.199	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.8-14	2						
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	11/06/2018	ND	416	104	400	3.77	
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*	13.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	406	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	62.5	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

Analyzed By me

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



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 11/02/2018 Reported: 11/08/2018

Project Name: STATE B
Project Number: NONE GIVEN

Project Location: ENERGEN

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NORTH @ 1' (H803144-02)

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	0.085	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.247	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	0.332	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	2300	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	482	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	173	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

11/02/2018 Reported: 11/08/2018

Project Name: STATE B Project Number: NONE GIVEN Project Location: **ENERGEN**

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: WEST@ 1' (H803144-03)

Received:

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.8-14	22						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/06/2018	ND	416	104	400	3.77	
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	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	60.1	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	36.6	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 11/02/2018 Reported: 11/08/2018

Project Name: STATE B Project Number: NONE GIVEN

Project Location: **ENERGEN** Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: SOUTH @ 1' (H803144-04)

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	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	11/06/2018	ND	416	104	400	3.77	
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	11/05/2018	ND	184	92.2	200	2.91	
DRO >C10-C28*	195	10.0	11/05/2018	ND	208	104	200	1.90	
EXT DRO >C28-C36	119	10.0	11/05/2018	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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Celeg D. Freene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keene



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

(5/5) 393-2326 FAX (3/3) 393-24/6	7				
Company Name: Caprock Services			A	ANALYSIS REQUEST	1
1		P.O. #:			
Address: P.C. Box 457		Company: Energen			
18 for State: N/M	Zip: 88260	Attn: Tommy Yark			3
Phone #: (575) 704-2718 Fax #:		Address: HCRY BOX SYCH	<u>A</u>		9
		City: Seminote			
Project Name:		State: /x Zip: 79360			
Project Location: S∤a+e B		Phone #: (432) 209-2483	<u> </u>		
7		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV, SAMPLING	le .		
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4 South et	×	X 11-2-18 8:20 Am	ラメトナ		
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remody for any claim arising whether besed in contract or tort, shall be limited to the amount peld by the client for the	ny claim arising whether based in contra	ct or tort, shall be limited to the amount paid by the clie	and for the		
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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	without limitation, business interruptions aroinal, regardless of whether such clain	 loss of use, or loss of profits incurred by client, its su is based upon any of the above stated reasons or ott 			
Relinquished By: Date: Date:	Received By:	Phone Result:	ılt: □ Yes □ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Received By:	A MANAGER REMARKS:	ē.	4.	
Delivered By: (Circle One)	Sample Condition	ition CHECKED BY:	*		
Sampler - UPS - Bus - Other: 10.10	S S	vo es			



February 25, 2019

JOEL LOWRY

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: ENERGEN STATE B

Enclosed are the results of analyses for samples received by the laboratory on 02/20/19 9:20.

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019
Reported: 02/25/2019
Project Name: ENERGEN STATE B
Project Number: NONE GIVEN

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #1 (H900653-01)

DTEV 0021D

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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	192	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	82.1	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	12.5	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

Applymed By MC

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019

02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #2 (H900653-02)

Reported:

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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.751	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	2.04	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	4.21	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	7.00	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 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	416	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	560	10.0	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	3710	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	572	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	137 9	% 41-142							
Surrogate: 1-Chlorooctadecane	216	% 37.6-14	7						

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02/19/2019

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Sampling Date: Reported: 02/25/2019 Sampling Type:

Soil Project Name: **ENERGEN STATE B** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: FLOOR #3 (H900653-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	400	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	307	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	45.9	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

ma/ka

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #4 (H900653-04)

RTFY 8021R

B1EX 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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	400	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	<10.0	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported:

02/25/2019 Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

ma/ka

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #5 (H900653-05)

RTFY 8021R

BIEX 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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	256	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	<10.0	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	93.6	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #6 (H900653-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	2120	16.0	02/22/2019	ND	416	104	400	3.77	QM-07
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	228	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	23.8	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #7 (H900653-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.067	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.100	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.224	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.391	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	560	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.6	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	1040	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	319	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	147	% 37.6-14	7						

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02/19/2019

Soil

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Sampling Date: Reported: 02/25/2019 Sampling Type:

Project Name: **ENERGEN STATE B** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson Project Location: LEA COUNTY, NM

Sample ID: FLOOR #8 (H900653-08)

BTEX 8021B	mg/kg		Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.100	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.319	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.450	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	419 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.6	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	1210	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	225	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	109 5	% 41-142	?						

Surrogate: 1-Chlorooctadecane 154 % 37.6-147

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #9 (H900653-09)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 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	1340	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	140	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	50.8	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142							
Surrogate: 1-Chlorooctadecane	98.5	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #10 (H900653-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.129	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.201	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.330	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 73.3-12	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	2120	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2490	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	990	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	?						
Cumpagata: 1 Chlangastadasana	202	0/ 27614	17						

Surrogate: 1-Chlorooctadecane 283 % 37.6-147

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Celey D. Keine



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

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #11 (H900653-11)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.260	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.303	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.528	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	1.09	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	133 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	1230	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	02/21/2019	ND	222	111	200	3.16	
	2100	10.0	02/21/2019	ND	220	110	200	5.83	
DRO >C10-C28*									

Cardinal Laboratories

249 %

37.6-147

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #12 (H900653-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.051	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 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	1680	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	895	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	286	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	140	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

02/20/2019

Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #13 (H900653-13)

Received:

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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	1.33	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	3.32	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	30.1	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	34.7	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	240	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	503	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	3350	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	977	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	249	% 41-142	?						
Surrogate: 1-Chlorooctadecane	336	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #14 (H900653-14)

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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	02/22/2019	ND	416	104	400	3.77	
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	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	111	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	50.6	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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02/19/2019

Soil

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Fax

LEA COUNTY, NM

Received: 02/20/2019 Sampling Date:
Reported: 02/25/2019 Sampling Type:

Project Name:ENERGEN STATE BSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Sample ID: FLOOR #15 (H900653-15)

Project Location:

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	479	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	108	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	120	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #16 (H900653-16)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 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	384	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	50.4	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	18.6	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Sampling Date: 02/19/2019

Reported: 02/25/2019 Sampling Type: Soil

Project Name: **ENERGEN STATE B** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: FLOOR #17 (H900653-17)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.091	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	0.507	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	0.598	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 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	240	16.0	02/22/2019	ND	416	104	400	3.77	
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*	10.4	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	403	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	79.2	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #18 (H900653-18)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	464	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	481	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	98.9	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Sampling Date: 02/19/2019 Reported: Soil

02/25/2019 Sampling Type: Project Name: **ENERGEN STATE B** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: FLOOR #19 (H900653-19)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9 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	544	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	50.2	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.2 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR #20 (H900653-20)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 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	288	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	106	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	24.1	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019

02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: FLOOR STAIN @ 10' (H900653-21)

Reported:

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	0.653	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	1.33	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	4.02	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	6.00	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	800	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	132	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2310	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	661	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	140 9	% 41-142	·						
Surrogate: 1-Chlorooctadecane	260	% 37 6-14	7						

260 % Surrogate: 1-Chlorooctadecane 37.6-147

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02/19/2019

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019

Reported: 02/25/2019 Sampling Type: Soil

Project Name: ENERGEN STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sampling Date:

Project Location: LEA COUNTY, NM

Sample ID: FLOOR STAIN @ 4' (H900653-22)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	0.572	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	2.28	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	5.42	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	8.27	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	672	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	147	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2960	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	967	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	157	% 41-142	?						
Surrogate: 1-Chlorooctadecane	300	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: NSW 1 (H900653-23)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 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	400	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	306	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	132	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

ma/ka

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: NSW 2 (H900653-24)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 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	320	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	49.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

Analyzed By: me

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019 Project Name: **ENERGEN STATE B**

Project Number: NONE GIVEN Project Location: LEA COUNTY, NM Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: ESW 1 (H900653-25)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	< 0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 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	144	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	58.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	84.0 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.3	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: ESW 2 (H900653-26)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.068	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	0.270	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	0.338	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 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	272	16.0	02/22/2019	ND	416	104	400	8.00	QM-07
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	344	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	85.7	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: SSW 1 (H900653-27)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	1070	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	1010	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	202	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142							
Surrogate: 1-Chlorooctadecane	155	% 37.6-14	7						

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Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019

ma/ka

Reported: 02/25/2019
Project Name: ENERGEN STATE B

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: SSW 2 (H900653-28)

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 73.3-129	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	1120	16.0	02/22/2019	ND	416	104	400	8.00	
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	98.9	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	52.8	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142							
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

Analyzed By: me

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Celey D. Keene



Jodi Henson

Sample Received By:

Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Гах

 Received:
 02/20/2019
 Sampling Date:
 02/19/2019

 Reported:
 02/25/2019
 Sampling Type:
 Soil

Reported: 02/25/2019 Sampling Type: Soil
Project Name: ENERGEN STATE B Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sample ID: WSW 1 (H900653-29)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 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	64.0	16.0	02/22/2019	ND	416	104	400	8.00	
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: **ENERGEN STATE B** Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: WSW 2 (H900653-30)

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	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 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	832	16.0	02/22/2019	ND	416	104	400	8.00	
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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	148	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	15.7	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260

Fax To:

Received: 02/20/2019 Reported: 02/25/2019

Project Name: ENERGEN STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/19/2019

Sampling Type: Soil

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

Sample ID: WSW 3 GC (H900653-31)

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	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.068	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 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	1220	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	1270	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	368	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	164	% 37.6-14	7						

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ecovery.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

FORM-006 R 2.0	Sampler - UPS -	Delivered By		Relinquished By:	Das Som	Relinquished By:	analyses. All claims including those for negligence and at service. In no event shall Cardinal be liable for incidental	PLEASE NOTE: Liability at	5	a	5		6	S	ħ	3	2		Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #: 432-	City: Lovington	Address: PO 896	roject Manager:	Company Name:
R 2.0	- Bus - Other: 4,4°	Delivered By: (Circle One)		y :		d on or or common or the best series	including those for regigence and any other cause winasserer sinal or sections invasions, bas of use, or loss of profits incurred by client, its subsidiaries, shall Cardinal be liable for incidental or consequental damages, including without inhalation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, shall be liable for incidental or consequental damages, including without mitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, shall be liable for incidental or consequent and any other consequence of services between the consequence of services between the consequence of services are consequently and the consequently are consequently as a consequently are consequently and the consequently are consequently as a consequently as a consequently are consequently as a consequently are consequently as a consequently as a consequently are consequently as a consequently as a consequently are consequently as a con	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	Floor #10	Floor #9	Floor #8	Floor #7	Floor #6	Floor #5	Floor #4	Floor #3	Floor #2	Floor #1	Sample I.D.			: Lea Co, NM	Energen State B		432-466-4450	on .	196	Joel Lowry	Caprock Services, LLC
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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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Sample Condition
Cool Intact
FYes FYes
No No

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 R 2.0

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

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Project Manager:	Joel Lowry								-	0,0	#	2	2	walk	P.O. # Diamond Budy / Evergen													
Address: PO 896	396								_	or	큣	Company:	•••	Caprock Services	ervices													
City: Lovington	on State: NM	Zip	#						_	Attn:	1	\$	1	Steve Taylor														
Phone #: 432-	432-466-4450 Fax #:								_	Address:	re	S																
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Sampler Name:	Joel Lowry								_	Fax #:	#		ı										-					
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Relinquished By:

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	76	١	١	1	ı	ı	1		1					١		١	:			Í	122				_
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

FORM-006 R 2.0	Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4,40		shed	Del Jean	affiliates or successors arising out of or related to the performance or 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 writin 30 days a rist competition or 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 writin 30 days a rist competition and any shall compete the competition of the com	TEASE NOTE: Linkibly and Pamanes 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									3) W	ロルクレン	Lab I.D.	TO LO	Sampler Name:	Project Location:	Project Name:	Project #:	e #	City: Lovington	Address: PO 896	Project Manager:	Company Name:	(£
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	194 /3H'	Time:	Date:	2 2 2	Date:	r cause whatsoever shall be des	client's exclusive remedy for any											ī.Đ					Project Owner:	Fax #:	State: NM			rvices, LLC	(575) 393-2326 FAX (575) 393-2476
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March 06, 2019

TOMMY YORK
DIAMONDBACK ENERGY
HCR 4 BOX 546A
SEMINOLE, TX 79360

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 03/04/19 12:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Analytical Results For:

DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:

Received: 03/04/2019
Reported: 03/06/2019
Project Name: STATE B

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2019

Sampling Type: Soil

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

Sample ID: FLOOR 8 B (H900837-01)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.0	% 37.6-14	7						

Sample ID: FLOOR 7 B (H900837-02)

TPH 8015M	mg/l	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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	265	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	42.2	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	94.8 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	111 %	<i>37.6-14</i>	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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:

Received: 03/04/2019 Reported: 03/06/2019

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2019

Sampling Type: Soil

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

Sample ID: FLOOR 10 B (H900837-03)

TPH 8015M	mg/l	кg	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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	184	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	22.9	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	92.4 %	6 41-142)						
Surrogate: 1-Chlorooctadecane	104 %	37.6-14	7						

Sample ID: FLOOR 13 B (H900837-04)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	95.2	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	10.4	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	95.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:

Received: 03/04/2019 Reported:

03/06/2019 STATE B

Project Name: Project Number: NONE GIVEN Project Location: LEA COUNTY, NM Sampling Date: 03/01/2019

Sampling Type: Soil

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

Sample ID: FLOOR 11 B (H900837-05)

TPH 8015M	mg/l	кg	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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	258	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	46.5	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	97.3 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	115 %	37.6-14	7						

Sample ID: FLOOR 2 B (H900837-06)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:

Received: 03/04/2019 Reported: 03/06/2019

Project Name: STATE B
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2019

Sampling Type: Soil

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

Sample ID: FLOOR STAIN @ 11.5 ' B (H900837-07)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Sample ID: FLOOR STAIN @ 5' B (H900837-08)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	29.6	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.3	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:

Received: 03/04/2019 Reported: 03/06/2019

03/06/2019 STATE B NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2019

Sampling Type: Soil

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

Sample ID: SSW 1 B (H900837-09)

Project Name:

Project Number:

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	93.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Sample ID: WSW 3 G C B (H900837-10)

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	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	736	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	145	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	96.49	% 41-142	,						
Surrogate: 1-Chlorooctadecane	129 %	% 37.6-14	7						

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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

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.

Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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3	Floor 10 B	C		_	-	-	×					×	-	3/1/19	7	×											+	
h	Floor 13B	C	_	->	-	-	×				T	×	-	3/1/19	2170	×										+	+	
G	Floor 11B	C	-	_	-	-	×				T	×	1	3/1/19 D	220	×											+	
6	Floor 2B	C	-	_	-	_	×				T	×	+	3/1/19	CY.CO	×										+	+	
7	Floor Stain @ 11.5'b	C	-	->	-	_	×					×			04.30	×											-	
æ	Floor stain @ 5'b	C	-	-7	-		×					×		3/1/19	0455	×									T		+	
9	SSW1B	C	-	-	-		×					×		3/1/19	0h K	×											+	
10	WSW3GCB	C	H	_			×				2	×		3/1/19 09.51	09.45	×			L								-	L
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March 22, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 03/20/19 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

 Received:
 03/20/2019
 Sampling Date:
 03/19/2019

 Reported:
 03/22/2019
 Sampling Type:
 Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 2 N WALL (H901073-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	98.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

Sample ID: FLOOR # 2 E WALL (H901073-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142							
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

 Received:
 03/20/2019
 Sampling Date:
 03/19/2019

 Reported:
 03/22/2019
 Sampling Type:
 Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 2 S WALL (H901073-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	14.5	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Sample ID: FLOOR # 3 E WALL (H901073-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.2	% 37.6-14	7						

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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

 Received:
 03/20/2019
 Sampling Date:
 03/19/2019

 Reported:
 03/22/2019
 Sampling Type:
 Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 6 S WALL (H901073-05)

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	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	?						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

Sample ID: FLOOR # 7 E WALL (H901073-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	7						

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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

Received: 03/20/2019 Sampling Date: 03/19/2019

Reported: 03/22/2019 Sampling Type: Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 11 S WALL (H901073-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	,						
Surrogate: 1-Chlorooctadecane	92.8	% 37.6-14	7						

Sample ID: FLOOR # 11 E WALL (H901073-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	11.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

Received: 03/20/2019 Sampling Date: 03/19/2019

Reported: 03/22/2019 Sampling Type: Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 11 N WALL (H901073-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

Sample ID: FLOOR # 9 E WALL (H901073-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	99.0	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

LOVINGTON NM, 0020

Fax To:

 Received:
 03/20/2019
 Sampling Date:
 03/19/2019

 Reported:
 03/22/2019
 Sampling Type:
 Soil

Project Name: STATE B Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 13 S WALL (H901073-11)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	39.3	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

Sample ID: FLOOR # 13 E WALL (H901073-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	218	109	200	1.21	
DRO >C10-C28*	54.9	10.0	03/21/2019	ND	193	96.3	200	9.83	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					
Surrogate: 1-Chlorooctane	80.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	80.3	% 37.6-14	7						

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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

et		n CHECKED BY: (Initials)	Sample Condition Cool Intact Tyes Tyes	(Circle One) Bus - Other: カフッ	Delivered By: (Cir. Sampler - UPS - Bus
@ Lowsylenvironmental.com	130	R		Time:	
	REMARKS:	ilday y	Received By:	Time:	Relinquished By:
☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #:	E.		Received By:	3-20-19	Relinguished By:
bia	r completion of the applical lient, its subsidiaries, isons or otherwise.	celved by Cardinal within 30 days afto s of use, or loss of profits incurred by c seed upon any of the above stated res	oemed waived unless made in writing and re without limitation, business interruptions, los urdinal, regardless of whether such claim is t	analyses. All claims including those for nogligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applica 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 clent, its aubsidantes, afficiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whather such claim is based upon any of the above stated reasons or otherwise.	analysec. All claims including those fo service. In no event shall Cardinal be alfaliates or successors arising out of o
<u> </u>	1	tort, shall be limited to the amount paid	y claim arising whether based in contract or	PLEASE NOTE: Liability and Damages. Cardinal's liability and clant's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the clear for the	PLEASE NOTE: Liability and Damage
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2	5 V	Fax #:	71	ordine Toulor	Sampler Name:
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0 (et (City:	Diamondback Gree	Project Owner:	Project #:
01.	N	Address:	A	Fax #:	Phone #:
B	M. M	Attn: 1 DW/MY	Zip: 79360 1	State: TX	city: Seminole
,)	Company: SAW	0	S.	Address: HCR 4
		P.O. #:		23	Project Manager:
ANALYSIS REQUEST		()	200	inmond back Fregue	Company Name:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	San Paris	the characteristic and the second	The state of the s		
company name: Namond back Energy			and a management of the company of t	ANALYSIS REQUEST	-
anager: Joe	7.	200			
Address: HUK H BUX	C	Company: JUNION			
City: State:	Zip: At	Attn:) Dywwy 408	DIN B		
Phone #: Fax #:	Ac	Address:		_	
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ame: State B		State: Zip:	.E		
Project Location: LOC CO WW	P	Phone #:			
Sampler Name: JOYCHINE TOY/OY	<u>a</u>	Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
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12 51470017 C	\(\frac{1}{2}\)	L1 61-61-8 X	00 メ メ		
		-			
6 5 z	any claim arising whether based in contract or to decemed waived unless made in writing and recodened waived unless interruptions, loss without limitation, business interruptions, loss	ort, shall be limited to the amount paid by the sived by Cardinal within 30 days after compi of use, or loss of profits incurred by client, its	client for the education of the applicable subsidiaries.		
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Time:	received by	1	1000 ont	and almomental com	COM
Delivered By: (Circle One)	Sample Condition	CHECKED BY:			8
Sampler - UPS - Bus - Other: 2.70	The Tyes No No	4		.a.	

ATTACHMENT #7

Photographic Log



Figure 1 View of surface staining from the initial release, facing East.



Figure 2 View of excavation activites, facing Southeast.



Figure 3 View of excavation activities, facing West.



Figure 4 View of portion of the excavated area, facing Southeast.



Figure 5 View of portion of the excavated area, facing Northeast.



Figure 6 View of the affected area after remediation activities, facing South.

ATTACHMENT #8

Release Notification (FORM C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notifica	ation and Corrective Action			
	OPERATOR x Initial Report Final Report			
Name of Company Energen Resources Corporation	Contact Andy Cobb			
Address 3510 N A Street, Midland, TX 79705	Telephone No. 432-686-3599			
Facility Name State B	Facility Type Oil and Gas Production Facility			
Surface Owner Dan Field/Branch Ranch Mineral Ow	wner State of New Mexico API No. 3002502709			
LOCAT	TION OF RELEASE			
	North/South Line Feet from the East/West Line County			
J 16S 35E 4610	FSL 2301 FEL LEA			
Latitude 32.9565239	Longitude103.4101334 NAD83			
NATU	URE OF RELEASE			
Type of Release Crude Oil	Volume of Release 136 barrels Volume Recovered 0			
Source of Release Oil Tank	Date and Hour of Occurrence 5/22/18 Date and Hour of Discovery 6/1/18			
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Requ	luired If YES, To Whom?			
By Whom?	Date and Hour			
Was a Watercourse Reached? Yes X No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*				
Describe Cause of Problem and Remedial Action Taken.* Corrosion caused a hole to develop in the oil tank and release fluid. The	RECEIVED By CHernandez at 2:31 pm, Jun 04, 2018 The fluid was not immediately discovered.			
Describe Area Affected and Cleanup Action Taken.* The area inside the berm was affected and remediation will be as soon as possible.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.				
Signature: Audy W33	OIL CONSERVATION DIVISION			
Printed Name: Andy Cobb	Approved by Environmental Specialist:			
Title: Director EH&S	Approval Date: 6/4/2018 Expiration Date:			
E-mail Address: andy.cobb@energen.com	Conditions of Approval:			
Date: 6/4/2018 Phone: 432-686-3599	See attached directive Attached			
Attach Additional Sheets If Necessary	1RP-5082 nCH1815552862			
	1RP-5082 nCH1815552862			
	pCH1815554047			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Latitude

32.95652

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

-103.41013

Release Notification

Responsible Party

Responsibly Party	Energen Resources Corporation	OGRID	162928	
Contact Name	Tommy York	Contact Telephone	432-209-2483	
Contact Email	tommy.york@energen.com	Incident # (assigned by OCD)	1RP-5082	
Contact Mailing Address	3510 N A Street, Midland, TX 7970)5		

Location of Release Source

Longitude

Site Name	State B			Site Type	Tank Battery	
Date Release I	Discovered	1 06/01/18	"		cable) 30-025-02709	
			 .	1 22 20 (9 appoint		
Unit Letter	Section	Township	Range	Count	y	
"J"	1	16	35	Lea		
Surface Owner	: ☑ Stat	e□ Federal□ T	ribal□ Private (No Nature ane	d Volume of I	State of New Mexico Release	
			·	calculations or specific	c justification for the volumes provided belo	ow)
Crude Oil		Volume Released (I		136	Volume Recovered (bbls)	0
Produced Water Volume Released (bbls)			Volume Recovered (bbls)			
		Is the concentration produced water >10		olids (TDS) in the	☐ Yes ☑ No	
□ Condensa	te	Volume Released (l	obls)		Volume Recovered (bbls)	
□ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (des	cribe)	Volume/Weight Re	eased (provide unit	s)	Volume/Weight Recovered (provi	de units)
Cause of Relea A hole develo		e oil tank as a resu	lt of corrosion; th	e fluid was not in	mmediatedly discovered.	

Form C-141 Page 2 State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	IRP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Was this a major	If YES, for what reason(s) does the resp	onsible party conside	er this a major release?
release as defined by	()	Release of greater	· · · · · · · · · · · · · · · · · · ·
19.15.29.7(A) NMAC?	1	resease of greater	r dian 25 bois.
☑ Yes □ No			
E 163 E NO			
	notice given to the OCD? By whom? To v	whom? When and by	what means? (phone, email, etc)?
No			
	Init	ial Response	
The responsi	ible party must undertake the following actions im	mediately unless they con-	ld create a safety hazard that would result in injury
		— — — — — — — — — — — — — — — — — — —	a create a sujery nazara mai woma resun in injury
i	elease has been stopped.		
The impacted area l	has been secured to protect human health	and the environment.	•
Release materials has	ave been contained via the use of berms of	or dikes, absorbent pa	ds, or other containment devices.
All free liquids and	recoverable materials have been removed	d and managed appro	priately.
If all the actions describe	d above have not been undertaken, expla	in why:	
		·	
	<u> </u>		
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence	e remediation immed	iately after discovery of a release. If remediation has
begun, please attach a nai	rative of actions to date. If remedial effor	rts have been success	sfully completed or if the release occurred within a lineo
	.15.29.11 (A)(5)(a) NMAC), please attacl		
I hereby certify that the info	ormation given above is true and complete to	the best of my knowle	edge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release	notifications and perfe	orm corrective actions for releases which may endanger
failed to adaquately investig	ment. The acceptance of a C-141 report by t	he OCD does not reliev	ve the operator of liability should their operations have
addition OCD acceptance	gate and remediate contamination that pose a	threat to groundwater,	, surface water, human health or the environment. In compliance with any other federal, state, or local laws
and/or regulations.	n a C-141 report does not teneve the operate	of responsibility for	compnance with any other lederal, state, or local laws
Printed Name:	Tommy York	Title:	Production Superintendent
	1.1./	_	
Signature:	nny gos	Date:	12-19-18
email: tommy.york@	<u>Denergen.com</u>	Telephone:	432-209-2483
	_ 		
OCD Only			_
Received by:	DEVIEWED	Date:	
1	REVIEWED		
	By CHernandez at 10:12 am	Jan 16, 2019	

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?		63 Ft.	(ft. bgs)
Did this release impact groundwater or surface water?	□	Yes 🗹	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?		Yes 🗹	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinarily high-water mark)?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		Yes 🗹	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?		Yes ☑	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		Yes 🗵	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?		Yes ☑	No
Are the lateral extents of the release within 300 feet of a wetland?		Yes ☑	No
Are the lateral extents of the release overlying a subsurface mine?		Yes 🗵	No
Are the lateral extents of the release overlying an unstable area such as karst geology?		Yes ☑	No
Are the lateral extents of the release within a 100-year floodplain?		Yes ☑	No
Did the release impact areas not on an exploration, development, production or storage site?		Yes 🖸	No

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

Cha	aracterization Report Checklist: Each of the following items must be included in the report.
Ø	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data
0	Data table of soil contaminant concentration data
3	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
团	Boring or excavation logs
Ø	Photographs including date and GIS information
[2]	Topographic/Aerial maps
☑	Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. Than 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 modifies by site- and release-specific parameters.

Form C-141

Page 4

State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

regulations all operators are required to report and/or f public health or the environment. The acceptance of a failed to adequately investigate and remediate contami addition, OCD acceptance of a C-141 report does not r and/or regulations.	The certain release notifications and perform of C-141 report by the OCD does not relieve the nation that pose a threat to groundwater, surfa	orrective actions for releases which may endanger operator of liability should their operations have ce water, human health or the environment. In
Printed Name: Tommy York	Title:	Production Superintendent
Signature: Tommy York	Date:	2-19-18
email: tommy.york@energen.com	Telephone:	432-209-2483
OCD Only Received by: APPROVED By CHernandez at	10:12 am, Jan 16, 2019	35

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nCH1815552862
District RP	IRP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

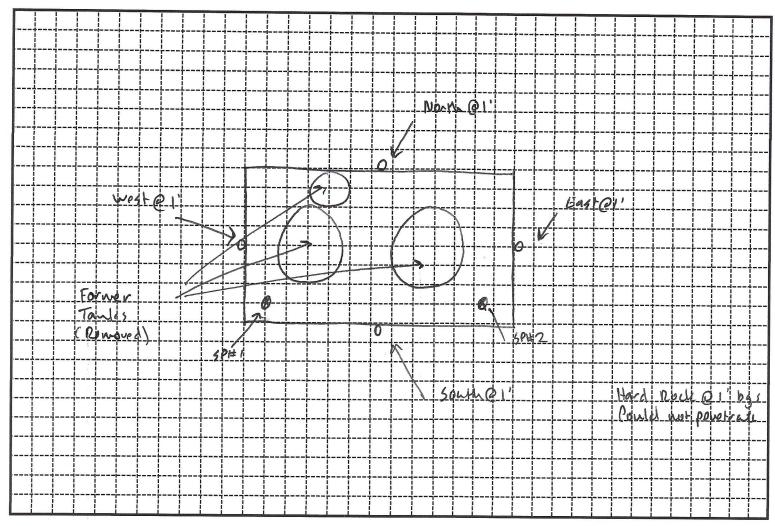
Remediation Plan

Rei	mediation Plan Checklist: Each of the following items must be included in the report.
3	Detailed description of proposed remediation technique
Ø	Scaled sitemap with GPS coordinates showing delineation points
4	Estimated volume of material to be remediated
4	Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
2	Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Def	ferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
DCI	torial Regards Only. Each of the following tiems 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.
and may shou hum com	reby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which rendanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability and their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, have health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for appliance with any other federal, state, or local laws and/or regulations. Tommy York Title: Production Superintendent
	S
Sign	nature: / mmy 4/2015 Date: 12-19-18
ema	il: tommy.york@energen.com Telephone: 432-209-2483
OC.	D Only
Rece	eived by: Date:
	Approved APPROVED By CHernandez at 10:12 am, Jan 16, 2019 Denied Deferral Approved

ATTACHMENT #9 Field Data

Site Name: State B

Date: 11/2/2018



Hard Rock @ 1' bgs. Could not penetrate

Field ID	Odor/PID	Chloride
Northel'	None	330
Easto!	Slight	4120
South O1'	Nove	2,652
WOSTO!	None	942

Field ID	Odor/PID	Chloride
		1
		1

Field ID	Odor/PID	Chloride
		, , , , , , , , , , , , , , , , , , , ,

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

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

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 383227

QUESTIONS

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nCH1815552862	
Incident Name	NCH1815552862 ENERGEN STATE B @ 30-025-02709	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-02709] STATE B #004	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	ENERGEN STATE B	
Date Release Discovered	06/01/2018	
Surface Owner	State	

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

Crude Oil Released (bbls) Details	Cause: Corrosion Tank (Any) Crude Oil Released: 136 BBL Recovered: 0 BBL Lost: 136 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Tank (Any) Produced Water Released: 0 BBL Recovered: 0 BBL Lost 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion Tank (Any) Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion Tank (Any) Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Natural Gas Flared (Mcf) Details	Cause: Corrosion Tank (Any) Natural Gas Flared Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Other Released Details	Cause: Corrosion Tank (Any) Unknown Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	N/A

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

QUESTIONS, Page 2

Action 383227

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUES'	TIONS (continued)
Operator: Sabinal Energy Operating, LLC 1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas ((i.e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a	a safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	t True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A
	ediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of e evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relithe OCD does not relieve the operator of liability should their operations have failed to	y knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Kyle Sanders Title: Manager EH&S Email: kyles@sabinalenergy.com

Date: 09/24/2024

District III

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	Action Number: 383227
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between 500 and 1000 (ft.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	ded to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each,	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	3080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	35820
GRO+DRO (EPA SW-846 Method 8015M)	32030
BTEX (EPA SW-846 Method 8021B or 8260B)	307
Benzene (EPA SW-846 Method 8021B or 8260B)	2.8
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	02/04/2019
On what date will (or did) the final sampling or liner inspection occur	03/19/2019
On what date will (or was) the remediation complete(d)	03/26/2019
What is the estimated surface area (in square feet) that will be reclaimed	7800
What is the estimated volume (in cubic yards) that will be reclaimed	1155
What is the estimated surface area (in square feet) that will be remediated	7800
What is the estimated volume (in cubic yards) that will be remediated	4540
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	led in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [fEEM0112338393]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process) Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Kyle Sanders Title: Manager EH&S

Email: kyles@sabinalenergy.com Date: 09/24/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	Action Number: 383227
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

District I

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 383227

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Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

ampling Event Information		
Last sampling notification (C-141N) recorded	386377	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024	
What was the (estimated) number of samples that were to be gathered	53	
What was the sampling surface area in square feet	7800	

Remediation Closure Request					
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.					
Requesting a remediation closure approval with this submission	Yes				
Have the lateral and vertical extents of contamination been fully delineated	Yes				
Was this release entirely contained within a lined containment area	No				
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes				
What was the total surface area (in square feet) remediated	7800				
What was the total volume (cubic yards) remediated	4540				
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes				
What was the total surface area (in square feet) reclaimed	7800				
What was the total volume (in cubic yards) reclaimed	1155				
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with an approved workplan Between 2/13/ and 3/12/2019. The submitted Closure Report was emailed to B. Billings but not uploaded into the NMOCD Imaging system utilized at the time.				

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 (in .pdf format) 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.

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

Name: Kyle Sanders
Title: Manager EH&S
Email: kyles@sabinalenergy.com
Date: 09/24/2024

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QUESTIONS, Page 7

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	Action Number: 383227
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 383227

CONDITIONS

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	Action Number: 383227
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

rhamlet	We have received your Remediation Closure Report for Incident #NCH1815552862 ENERGEN STATE B, thank you. This Remediation Closure Report is approved.	9/26/2024
Created By	Condition	Condition Date