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Incident ID NRM2018258355
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Facility ID
Application ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	315_ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 	ls.

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

Received by OCD: 7/27/2023 2:24:33 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

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D	NRM2018258355	

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Dale Woodall Title: EHS Professional Signature Dale Woodall Date: __7/27/2023_____ Telephone: 575-748-1838 email: Dale.Woodall@dvn.com **OCD Only** Received by: Shelly Wells Date: 7/28/2023

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Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poi □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29 □ Proposed schedule for remediation (note if remediation plan ti 	.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around deconstruction.	production equipment where remediation could cause a major facility
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:Dale Woodall	Title:EHS Professional
Signature: Dala Woodall	Date:7/27/2023
email:Dale.Woodall@dvn.com	Telephone:575-748-1838
OCD Only	
Received by: Shelly Wells	Date: <u>7/28/2023</u>
Approved Approved with Attached Conditions of	f Approval Denied Deferral Approved
Signature: Nelson Velez	Date: 08/15/2023

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Closure

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

Closure Report Attachment Checklist: Each of the following	ing items must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.	29.11 NMAC						
Note: Appropriate OCD District office must be notified 2 days prior to liner inspection)							
☐ Laboratory analyses of final sampling (Note: appropriate of	ODC District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
and regulations all operators are required to report and/or file cemay endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or represtore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name:Dale Woodall	Title:EHS Professional Date:7/27/2023						
OCD Only							
Received by: Shelly Wells	Date: 7/28/2023						
	arty of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.						
Closure Approved by:	Date:						
Printed Name:	Title:						



December 7, 2020

#5E29133-BG27

NMOCD District 1 1625 N. French Dr. Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Hognose Viper 23 Federal #001H Release (NRM2018258355), Lea County, New Mexico

To Whom It May Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Hognose Viper 23 Federal #001H site. The site is in Unit M, Section 23, Township 23S, Range 33E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

	Table 1: Release Information and Closure Criteria								
Name	Hognose Viper 23 Federal #001H	Company	Devon Energy Production Company						
API Number	30-02541975	Location	32.2834969, -103.5488968						
Tracking Number	N	RM2018258355							
Estimated Date of Release	6/20/2020	Date Reported to NMOCD	6/20/2020						
Land Owner	Federal	Reported To	NMOCD, BLM						
Source of Release	Water pump out of adjustment and	Water pump out of adjustment and not keeping up with the water produced.							
Released Volume	9 BBLS 0.9 BLS	Produced Water & Crude ()							
Recovered Volume	3.5 BBLS 0.9 BBLS	Net Release	5.5 BBLS						
NMOCD Closure Criteria	<50 feet to groundwater								
SMA Response Dates	7/16/2020, 8/29/2020, 9/5/2020, 11/11/2020, 11/23/2020								

Hognose Viper 23 Federal 1H Remediation Closure Report (NRM2018258355) December 7, 2020 Page 2 of 5

1.0 Background

On June 20, 2020, a release was discovered at the Hognose Viper 23 Federal #001H site due to a water pump being out of adjustment and unable to keep up with the water being produced from the system. Upon a routine site visit the lease operator found water spraying from the pop-off valve on the free water knock out. Initial response activities were conducted by the operator, and included source elimination and site stabilization activities, which recovered approximately 0.9 barrels of crude oil and 3.5 barrels of produced water. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Hognose Viper 23 Federal #001H is an active production facility located approximately 40 miles east of Carlsbad, New Mexico on Federal (BLM) land at an elevation of approximately 3685 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of the State Engineer (NMOSE) online water well database (Appendix B), depth to groundwater in the area is estimated to be 315 feet below grade surface (bgs).

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant water source is an unnamed water source, located approximately 1.38 miles to the southeast.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Due to the lack of supportable groundwater depth information, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization and Remediation Activities

On July 16, August 29, and September 5, 2020, SMA personnel performed site delineation activities at the Hognose Viper 23 Federal #001H site. SMA collected soil samples around the release site and throughout the visibly stained area. The area(s) of visual impact was located partially within the boundary of the developed storage facility, and partially in the pasture.

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and/or for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of 15 sample locations (S1-S12, L1-L3) were investigated using a hand-auger, to depths up to four feet bgs. A total of 41 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3a, results indicated that the two impacted areas measured approximately 56 feet by 58 feet by 0.5 feet deep in the pasture, and 102 feet by 80 feet by 1 foot deep on engineered pad.

Hognose Viper 23 Federal 1H Remediation Closure Report (NRM2018258355) December 9, 2020 Page 3 of 5

Between November 6, and 11, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter and/or for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on November 9 and 19, 2020 that closure samples were expected to be collected in two (2) business days.

On November 11, 2020, SMA collected confirmation samples from the walls and base of the excavation. The excavation was split into four (4) different areas, the area represented by samples L1-L3, located on the northernmost extent of the release (pasture), measuring approximately 30 feet x 40 feet by 0.5 feet in depth. Confirmation samples CS17-CS19 and SW1 & SW9 were collected from the base and sidewalls. The area represented by samples S9 & S10, located on the northernmost extent of the release (on pad), measuring approximately 35 feet x 15 feet x 1 foot in depth. Confirmation samples CS1-CS3 and SW2 & SW8 were collected from the base and sidewalls. The area represented by samples S6-S8, located to the left-hand side of horizontal separators/ heater treaters (on pad), measuring approximately 40 feet x 36 feet x 1 foot in depth. Confirmation samples CS4-CS10 and SW7 were collected from the base and sidewalls. The area represented by samples S1-S5, located in the southernmost portion of the release (on pad), measuring approximately 60 feet x 33 feet x 1 foot in depth. Confirmation samples CS11-CS16 and SW5 & SW6 were collected from the base and sidewalls. The area represented by samples S11 and S12 was not excavated due to the proximity to production equipment, as discussion in Section 4 below. Sample SW3 was collected to define the eastern extent of the deferred area. Each sample represents 200 ft2 of the impacted area.

A total of 31 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Cardinal Analytical Laboratories located in Hobbs, New Mexico.

On November 23, 2020, SMA returned to location for further excavation and sample collection. The area around confirmation sample CS5 was excavated an additional half foot, the southern sidewall (SW5) and the excavation in the pasture (SW1) were both extended approximately one foot laterally.

Figure 3(a) shows the initial extent of the release along with initial soil sample locations, Figure 3(b) shows the extent of the final excavation and closure sample locations. All laboratory results are summarized in Tables 3a and 3b. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3b, closure samples at locations (CS1-CS19 and sidewall locations SW1-SW9) meet the Closure Criteria of Table I of 19.15.29.12 NMAC. A deferral is requested for sample locations S11 and S12, due to proximity to production equipment, where remediation activities would cause a major facility shut down. As required, and demonstrated on Table 3 and Figure 3, the deferred area has been fully delineated and does not pose an imminent risk to human health, the environment, or groundwater.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Northern Delaware Basin Landfill, located near Jal, NM, an NMOCD permitted disposal facility.

Hognose Viper 23 Federal 1H Remediation Closure Report (NRM2018258355) December 7, 2020 Page 4 of 5

SMA requests a deferral for remediation in the area of locations (S11-S12) for Incident Number NRM2018258355.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Manager Shawna Chubbuck Senior Scientist Hognose Viper 23 Federal 1H Remediation Closure Report (NRM2018258355) December 7, 2020 Page 5 of 5

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 12/4/2020

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3a: Site and Initial Sample Location Map Figure 3b: Site and Closure Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

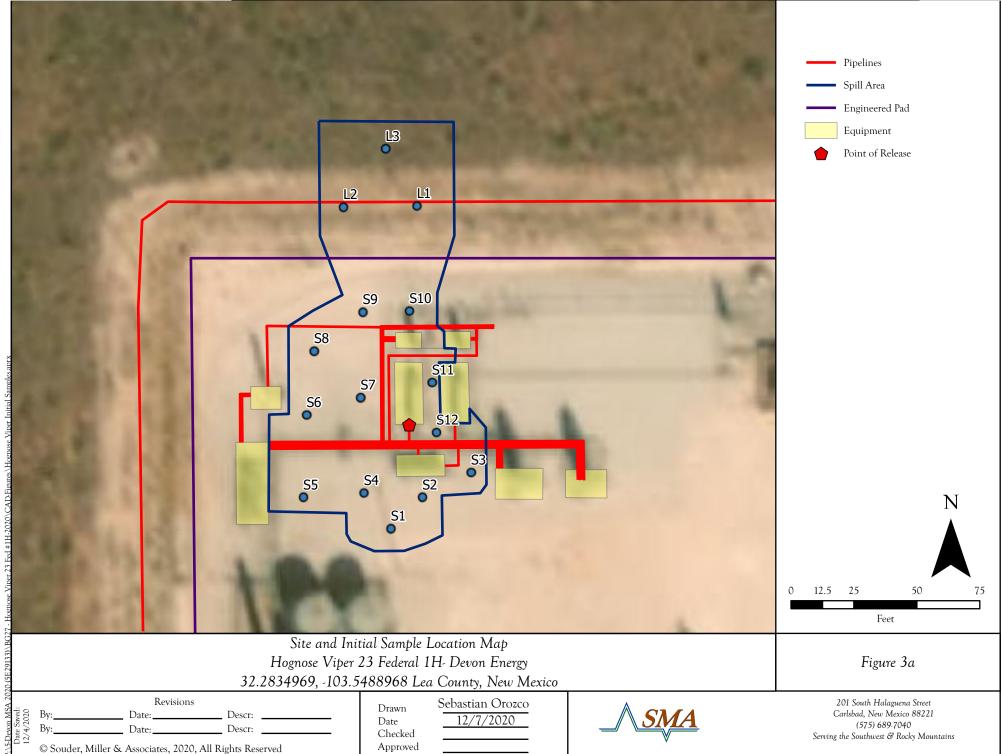
Appendix A: Form C141

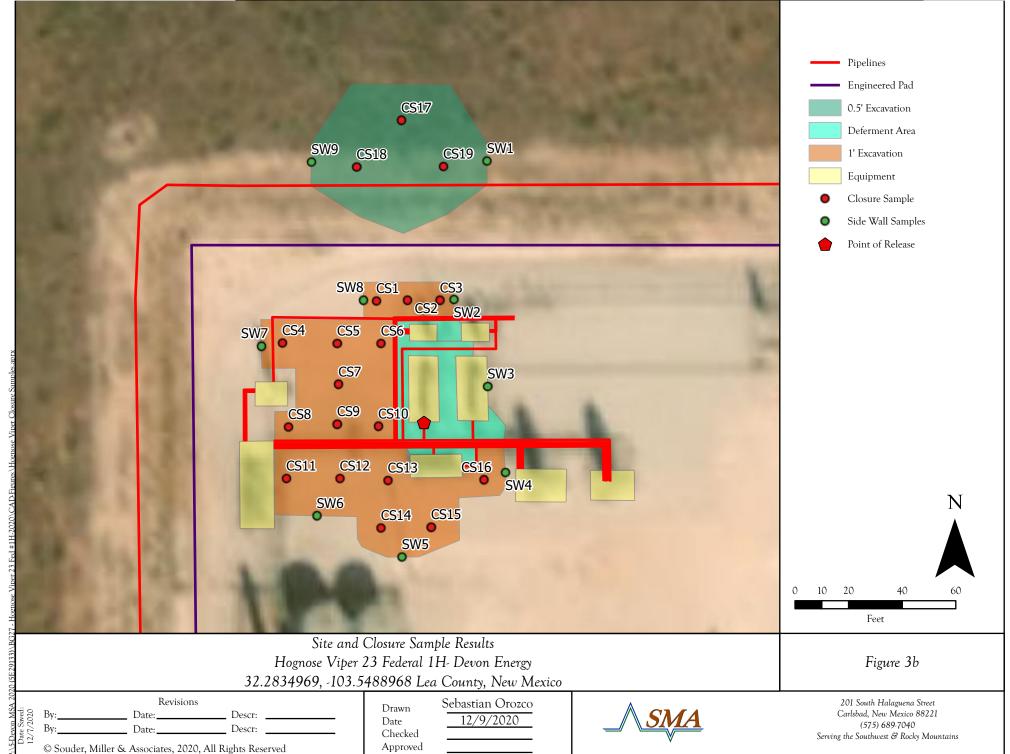
Appendix B: NMOSE Wells Report

Appendix C: Sampling Protocol and Field Notes Appendix D: Laboratory Analytical Reports

Appendix E: Photo Log

FIGURES





TABLES

Table 2: NMOCD Closure Criteria

Devon Energy Company Hognose Viper 23 Fed #001H NRM2018258355

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	315	Office of the State Engineer (OSE)
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	Office of the State Engineer (OSE)
Hortizontal Distance to Nearest Significant Watercourse (ft)	7,286	United States Geological Society (USGS)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)								
Ciosare Citeria (15:15)		re Criteria	units in r	ng/kg)				
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene			
< 50' BGS	Х	600	100		50	10		
51' to 100'		10000	2500	1000	50	10		
>100'		20000	2500	1000	50	10		
Surface Water	yes or no	or no if yes, then						
<300' from continuously flowing watercourse or other significant watercourse?	No							
<200' from lakebed, sinkhole or playa lake?	No							
Water Well or Water Source								
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No							
<1000' from fresh water well or spring?	No							
Human and Other Areas		600	100		50	10		
<300' from an occupied permanent residence, school, hospital, institution or church?	No							
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No							
<100' from wetland?	No	1						
within area overlying a subsurface mine	No	1						
within an unstable area?	No	1						
within a 100-year floodplain?	No]						

Table 3a: Summary of Initial Sample Results

Sample ID	Sample Date	Depth (feet bgs)	Action	BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	CI-
	Date	1595)	Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria		50	10			1000		100	600
	Engineered Pad										
	7/16/2020	Surface	Excavate	<0.300	<0.050	<10.0	9530	9530	3780	13310	60800
S1		1		<0.300	<0.050	<10.0	<10.0	<20.0	<10.0	<30.0	6660
	8/29/2020	2	In-Situ	-	-	-	-	-	-	-	208
S2	7/16/2020	Surface	Excavate	<0.300	<0.050	<10.0	11000	11000	3540	14540	38400
		1 Surface	In-Situ	<0.300 <0.300	<0.050 <0.050	<10.0 <10.0	<10.0 12500	<20.0 12500	<10.0 3790	<30.0 16290	592 33600
S3	7/16/2020	3uriace 1	Excavate	<0.300	<0.050	<10.0	366	366	114	480	7520
00	8/29/2020	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30	<16.0
		Surface	Excavate	<0.300	<0.050	<10.0	6,260	6,260	1,660	7,920	45600
S4	7/16/2020	1	In-Situ	<0.300	<0.050	<10.0	<10.0	<20.0	<10.0	<30.0	496
	7/40/0000	Surface		<0.300	<0.050	<10.0	9130	9130	2300	11430	10000
	7/16/2020	1	Excavate	<0.300	<0.050	<10.0	110	110	83.6	193.6	640
S5	9/5/2020	2		-	-	-	<10.0	<10.0	<10.0	<30.0	16
35	8/29/2020	3	In-Situ	-	-	<10.0	23.3	23.3	<10.0	23.3	1560
	9/5/2020	3	III-Ollu	-	-	1	-	-	-	-	<16
	9/5/2020 4			-	-	-	-	-	-	-	<16
	7/16/2020	Surface	Excavate	<0.300	<0.050	<50.0	14500	14500	4370	18870	
S6		1		<0.300	<0.050	<10.0	296	296	86	382	2040
	8/29/2020	2	In-Situ	-	0.050	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
S7	7/16/2020	Surface	Excavate	<0.300	<0.050	<50.0	16500	16500	5100	21600	24400
57	8/29/2020	2	In-Situ	<0.300	<0.050	<10.0 <10.0	13.6 <10.0	13.6 <20.0	12.4 <10.0	26 <30	3880 <16.0
	0/29/2020	Surface	Excavate	<0.300	<0.050	<50.0	18900	18900	5800	24700	10600
S8	7/16/2020	1	In-Situ	<0.300	<0.050	<10.0	46.4	46.4	<10.0	46.4	128
		Surface	Excavate	<0.300	<0.050	<10.0	839	839	310	1149	1500
S9	7/16/2020	1	In-Situ	<0.300	<0.050	<10.0	11.9	11.9	14	25.9	160
	7/16/2020	Surface	Excavate	<0.300	<0.050	<10.0	8490	8490	2450	10940	1230
S10	7/16/2020	1	Excavate	<0.300	<0.050	<10.0	103	103	74.4	177.4	48.0
	8/29/2020	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	7/16/2020	Surface		<0.300	<0.050	<50.0	19400	19400	5910	25310	19400
S11		1		<0.300	<0.050	<10.0	614	614	156	770	1360
	8/29/2020	2	Defer	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
040	7/16/2020	Surface		<0.300	<0.050	<50.0	15100	15100	5110	20210	23600
S12	0/00/0000	1		<0.300	<0.050	<10.0	<10.0	<20.0	<10.0	<30.0	3800
	8/29/2020	2		- (-	-	-	-	-	<16.0
	7/16/2020	Surface	Excavate	<0.300	Overspray A <0.050	<10.0	84.3	84.3	39.9	124.2	64.0
L1	7/16/2020 8/29/2020	Surface 1	In-Situ	<0.300	<0.050	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
	7/16/2020	· ·	Excavate	<0.300	<0.050	<10.0	201	201	86.9	287.9	80.0
L2	8/29/2020	1	In-Situ	-0.500	-0.000	<10.0	<10.0	<20.0	<10.0	<30.0	-
	7/16/2020	Surface	Excavate	<0.300	<0.050	<10.0	89.8	89.8	75.1	164.9	64.0
L3	8/29/2020	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
<u> </u>	1,20,2020	· · · · · · · · · · · · · · · · · · ·				.0.0		_0.0	.0.0	00.0	

[&]quot;--" = Not Analyzed

Table 3b: Summary of Closure Sample Results

Devon Energy Production Company Hognose Viper 23 Federal #001H NRM2018258355

			Metho	d 8021B	Method 8015D				Method 300.0
Sample ID	Sample Date	Action Taken	ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	Cl-
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOC	D Closure Crit	teria (>4 ft)	50	10				100	600
				imation San			T		
CS1	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	16.0
CS2	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	64.0
CS3	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	80.0
CS4	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	80.0
CS5	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	96.0
CS6	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	64.0
CS7	11/11/2020	In-Situ	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	64.0
CS8	11/11/2020	5.10	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	96.0
CS9	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	64.0
CS10	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	272
CS11	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	512
CS12	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	112
CS13	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	304
CS14	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	112
CS15	11/11/2020	Excavated	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	832
C313	11/23/2020	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
CS16	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	16.0
CS17	11/11/2020	In-Situ	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
CS18	11/11/2020	III-Situ	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
CS19	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
SW1	11/11/2020	Excavated	<0.60	<0.050	<10.0	132	44.7	176.7	144
3001	11/23/2020	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
SW2	11/11/2020		<0.60	<0.050	<10.0	47.7	11.8	59.5	112
SW3	11/11/2020	In-Situ	<0.60	<0.050	<10.0	55.9	12.1	68.0	368
SW4	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	288
SW5	11/11/2020	Excavated	<0.60	<0.050	<10.0	20.6	<10.0	20.6	784
34/2	11/23/2020	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
SW6	11/11/2020		<0.60	<0.050	<10.0	43.8	14.3	58.1	320
SW7	11/11/2020	Im City	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	16.0
SW8	11/11/2020	In-Situ	<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
SW9	11/11/2020		<0.60	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0

"--" = Not Analyzed

BG: Background sample

APPENDIX A FORM C141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2018258355
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy			OGRID 61	137		
Contact Name Lupe Carrasco			Contact Te	elephone 575-748-0165		
Contact email lupe.carrasco@dvn.com				Incident #	(assigned by OCD)	
Contact mai	ling address	6488 Seven I	Rivers Highwa	ay Arte	esia, NM 8	38210
					telease So	
Latitude 32.2834969 Long			Longitude •	-103.5488968		
			(NAD 83 in a	decimal de	grees to 5 decim	nal places)
Site Name H	oanose V	iper 23 Fede	ral #001H		Site Type \	Well
Date Release	Discovered	6/20/20				licable) 30-025-41975
					•	
Unit Letter	Section	Township	Range		Coun	ty
М	23	23S	33E	Lea		
Surface Owner: State Federal Tribal Private (Name:)						
Nature and Volume of Release						
				ch calculat	ions or specific	justification for the volumes provided below)
Crude Oi		Volume Releas	0.5			Volume Recovered (bbls) 0.9
✓ Produced	l Water	Volume Releas	, , ,			Volume Recovered (bbls) 3.5
Is the concentration of dissolved chlorid produced water >10,000 mg/l?			chloride	e in the	☐ Yes ☑ No	
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)			
Cause of Release Upon routine visit to location, Lease Operator found water spraying from the pop off valve on the Free Water Knock Out. Cause was due to waer dump out of adjustment and not keeping up with water produced. Vessel was isolated and a vacuum truck dispatched to recover standing fluid.						

Received by OCD: 7/27/2023 2:24:33 PM State of New Mexico
Page 2 Oil Conservation Division

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	- C7 N	

Incident ID	NRM2018258355
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☑ The impacted area ha	s been secured to protect human health and	the environment.
✓ Released materials has	ave been contained via the use of berms or d	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred elease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	ment. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger PCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Lupe	Carrasco	Title: EHS Professional
Signature: Lupe C	arrasco	Date: 6/30/20
email: Lupe.Carr		Telephone: <u>575-748-0165</u>
OCD Only		
Received by:Ramon	na Marcus	Date: 6/30/2020

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Incident ID	NRM2018258355
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	315_ (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?		
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 		

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

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Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Dale Woodall Title: EHS Professional Signature Dale Woodall Date: __7/27/2023____ Telephone: 575-748-1838 email: Dale.Woodall@dvn.com **OCD Only** Received by: Date:

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Incident ID	NRM2018258355
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Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.		
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
<u>Deferral Requests Only</u> : Each of the following items must be co	onfirmed as part of any request for deferral of remediation.		
☐ Contamination must be in areas immediately under or around peconstruction.	production equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
☐ Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.		
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of		
Printed Name:Dale Woodall	Title:EHS Professional		
Signature: Dale Woodall	Date:7/27/2023		
email:Dale.Woodall@dvn.com	Telephone:575-748-1838		
OCD Only			
Received by:	Date:		
Approved	f Approval		
Signature:	Date:		

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Incident ID	NRM2018258355
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate O	DC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
Thereby 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, numan health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Dale Woodall Title: EHS Professional Date:		
	Telephone:575-748-1838	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

APPENDIX B NMOSE WELLS REPORT



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	o c)						Depth	Depth	Water
POD Number	Code basin	County			-	Tws	Rng	Х	Υ	Distance	•	•	Column
C 02283	CUB	LE	4	2 2	2 26	23S	33E	637896	3572431* 🌕	1297	325	225	100
C 02282	CUB	LE	3	1 1	25	23S	33E	638098	3572436* 🌕	1491	325	225	100
<u>C 02284</u>	CUB	LE	4	2 4	1 26	23S	33E	637907	3571626* 🎒	1711	325	225	100
<u>C 02278</u>	CUB	LE	3	4 2	2 28	23S	33E	634484	3571989* 🌍	2304	650	400	250
<u>C 02280</u>	CUB	LE	3	2 4	1 28	23S	33E	634489	3571586* 🌍	2468	650	400	250
C 02281	CUB	LE	3	4 4	1 28	23S	33E	634495	3571183* 🌍	2682	545	400	145
C 03582 POD1	С	LE	4	1 1	I 14	23S	33E	636583	3575666 🌍	2883	590		
C 04353 POD1	CUB	ED	4	2 2	2 24	23S	33E	639474	3574098 🌕	3117	603	330	273

Average Depth to Water: 315 feet

DEPTH TO WATER

Minimum Depth: 225 feet

Maximum Depth: 400 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 636647.34 **Northing (Y):** 3572784.24 **Radius:** 3200

*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.

APPENDIX C SAMPLING PROTOCOL & FIELD NOTES



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Cardinal Analytical Laboratories in Hobbs, New Mexico for analysis. Samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

Engineering • Environmental • Surveying

www.soudermiller.com

APPENDIX D LABORATORY ANALYTICAL REPORTS



July 21, 2020

LYNN A ACOSTA
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: HOGNOSE VIPER

Enclosed are the results of analyses for samples received by the laboratory on 07/16/20 15:20.

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

 Received:
 07/16/2020
 Sampling Date:
 07/16/2020

 Reported:
 07/21/2020
 Sampling Type:
 Soil

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

A ... - L ... - - - I D. .. MC

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 1 - SURFACE (H001863-01)

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	07/18/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/18/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	07/20/2020	ND	416	104	400	0.00	
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*	<10.0	10.0	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	9530	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	3780	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	477	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: Sampling Type: Soil 07/21/2020

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 1 - 1' (H001863-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/17/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 73.3-12	9						
hloride, SM4500Cl-B mg/kg		kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/20/2020	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 9	6 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 2 - SURFACE (H001863-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/18/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	07/20/2020	ND	416	104	400	0.00	
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*	<10.0	10.0	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	11000	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	3540	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	103 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	631 %	6 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 2 - 1' (H001863-04)

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	07/17/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/17/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/20/2020	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	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	115 9	42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 3 - SURFACE (H001863-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/18/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	07/20/2020	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*	<50.0	50.0	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	12500	50.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	3790	50.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	95.89	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	602 %	6 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: Sampling Type: Soil 07/21/2020

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 3 - 1' (H001863-06)

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	07/17/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/17/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	07/20/2020	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	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	366	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	114	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	110 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020 Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 4 - SURFACE (H001863-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/17/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	< 0.050	0.050	07/17/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45600	16.0	07/20/2020	ND	416	104	400	0.00	
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	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	6260	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	1660	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	102 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	351 %	6 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: Sampling Type: Soil 07/21/2020

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 4 - 1' (H001863-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2020	ND	1.90	95.0	2.00	2.56	
Toluene*	<0.050	0.050	07/17/2020	ND	1.91	95.6	2.00	2.56	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.92	96.1	2.00	2.85	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.55	92.5	6.00	2.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/20/2020	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	07/18/2020	ND	209	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/18/2020	ND	228	114	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	07/18/2020	ND					
Surrogate: 1-Chlorooctane	119 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	129 %	6 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 5 - SURFACE (H001863-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	07/20/2020	ND	432	108	400	0.00	QM-07
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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	9130	10.0	07/20/2020	ND	222	111	200	1.73	QM-07
EXT DRO >C28-C36	2300	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	447 9	% 42.2-15	6						

447 % Surrogate: 1-Chlorooctadecane 42.2-156

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 5 - 1' (H001863-10)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	110	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	83.6	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	117	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Analyzed By: MS

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 6 - SURFACE (H001863-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	< 0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	07/20/2020	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*	<50.0	50.0	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	14500	50.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	4370	50.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	658	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 6 - 1' (H001863-12)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	296	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	86.0	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108 9	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 7 - SURFACE (H001863-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	07/20/2020	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*	<50.0	50.0	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	16500	50.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	5100	50.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	116 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	738 9	42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 7 - 1' (H001863-14)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	13.6	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	12.4	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 9	% 42.2-15	6						

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07/16/2020

Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Sampling Date:

07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 8 - SURFACE (H001863-15)

Received:

Analyte Result Benzene* <0.05 Toluene* <0.05	0 0.050 0 0.050	07/17/2020 07/17/2020	Method Blank	BS 2.00	% Recovery	True Value QC	RPD	Qualifier
	0 0.050		ND	2.00	100			
Toluene* <0.05		07/17/2020			100	2.00	4.87	
			ND	2.24	112	2.00	5.74	
Ethylbenzene* <0.05	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes* <0.15	0 0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX <0.30	0 0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID 1	20 % 73.3-	-129						
Chloride, SM4500Cl-B	ng/kg	Analyze	ed By: GM					
Analyte Resul	Reporting Limit	t Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 1060	0 16.0	07/20/2020	ND	432	108	400	0.00	
TPH 8015M	ng/kg	Analyze	ed By: MS					S-06
Analyte Resul	: Reporting Limit	t Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <50.	50.0	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28* 1890	o 50.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36 5800	50.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane 1	20 % 44.3-	-144						
Surrogate: 1-Chlorooctadecane 8	07 % 42.2-	-156						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Analyzed By: me

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: S 8 - 1' (H001863-16)

RTFY 8021R

BIEX 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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	46.4	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112	% 42.2-15	6						

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Celey & Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 9 - SURFACE (H001863-17)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/20/2020	ND	432	108	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	839	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	310	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	97.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	123	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 9 - 1' (H001863-18)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	11.9	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	14.0	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 10 - SURFACE (H001863-19)

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	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	07/20/2020	ND	432	108	400	0.00	
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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	8490	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	2450	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	455 9	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil Project Name: HOGNOSE VIPER Sampling Condition: Coo

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

Analyzed By: me

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: S 10 - 1' (H001863-20)

RTFY 8021R

BIEX 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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	103	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	74.4	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119	% 42.2-15	6						

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Tamara Oldaker

Sample Received By:

Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil
Project Name: HOGNOSE VIPER Sampling Condition: Cool & Intact

Project Location: DEVON ENERGY - JAL, NM

NONE GIVEN

Sample ID: S 11 - SURFACE (H001863-21)

Project Number:

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	07/20/2020	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*	<50.0	50.0	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	19400	50.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	5910	50.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	127 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	869	% 42.2-15	6						

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 11 - 1' (H001863-22)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	614	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	156	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	112 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 12 - SURFACE (H001863-23)

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	07/18/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/18/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/18/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/18/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	07/20/2020	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*	<50.0	50.0	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	15100	50.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	5110	50.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	706	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

Project Name: **HOGNOSE VIPER** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S 12 - 1' (H001863-24)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	<10.0	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116 9	6 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: L 1 (H001863-25)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	84.3	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	39.9	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: L 2 (H001863-26)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	201	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	86.9	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	96.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 9	% 42.2-15	6						

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 07/16/2020 Sampling Date: 07/16/2020

Reported: 07/21/2020 Sampling Type: Soil

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

Project Location: DEVON ENERGY - JAL, NM

Sample ID: L 3 (H001863-27)

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	07/17/2020	ND	2.00	100	2.00	4.87	
Toluene*	<0.050	0.050	07/17/2020	ND	2.24	112	2.00	5.74	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	2.13	106	2.00	5.47	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	7.00	117	6.00	5.90	
Total BTEX	<0.300	0.300	07/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2020	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	07/20/2020	ND	210	105	200	0.798	
DRO >C10-C28*	89.8	10.0	07/20/2020	ND	222	111	200	1.73	
EXT DRO >C28-C36	75.1	10.0	07/20/2020	ND					
Surrogate: 1-Chlorooctane	103 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

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Notes and Definitions

S-06	5	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	ł	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	1	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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Relinquished B

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

Corrected Temp. °C Observed Temp. °C Time:

10.6

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Thermometer ID #113
Correction Factor None

Relinquished By

Received By:

ptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Verbal Result:

Verbal Result:

Yes

No Add'I Phone #:

All Results are emailed. Please provide Email address:

acostra to sovoler miller. com

lok 3

BEMARKS:

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Lynn Acoste	P.O. #:	
3	Company:	
City: Curlsback State: NM Zip:	o: 88720 Attn:	
1 2924-9	Address:	
Project #: Project Owner: Devon Every U	even breight City:	
Project Name: Hogwose Viney	State: Zip:)
Project Location: Jal, NM	Phone #:	21,5
Sampler Name: 41/SO	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Kolsus Sample I.D. (G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TFH(
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85-1-1-		0:02
9 SS-Sulface		10 <i>63</i>
/0 55-1,		600



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

CHAIN-C
N-OF-CUSTODY
AND ANALY
DF-CUSTODY AND ANALYSIS REQUEST
-1

06 K 3.	Delivered By: (Circle One) Sampler - UPS - Bus - Oti	celludrished by:	X	Relinquished By:	svice. In no event shall Cardinal be liable for incidental or consectifiliates or successors arising out of or related to the performance	LEASE NOTE: Liability and Damages, nalyses. All claims including those for r	26	19	18	17	16	25	14	Cu	12	11	4001863		Lab I.D.		FOR LAB USE ONLY	Sampler Name:	roject Location:	roject Name:	roject #:	hone #:	City:	Address:	roject Manager:	company name:
1 06/04/20 +	ner.		Lucha Times 300	1 Date/6/2	be liable for incidental or consequental damages, in f or related to the performance of services hereunde	ages. Cardinal's liability and client's exclusive remed tor negligence and any other cause whatsoever sh	\$10-1'	S10-Surhace	59-11	Sq-Surface	58-1	58-Sur Face	57-1.	57-Surface	56-1'	S6-Sustace		100	Sample I.D.						Project Owner:	Fax #:	State:			
Sinnot accept	Sample Condition Cool Intact Cool Intact	Received By:	Chuses Als	Received By:	avice. 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, filiates 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.	LEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the raylors. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the anologable.											# CO GRO	UND TEW	PR (C) INERS WATE ATER	S ER	MATRIX	Fa	Ph	St	wner: City:	Ad	Zip: At	Cc	P.O.	
Corre	s) BY:	REM	latel	Verb	f use, or loss of profits incurred by client, its subsidiaries upon any of the above stated reasons or otherwise	t, shall be limited to the amount paid by the calved by Cardinal within 30 days after comple	1 16	101		6	<u>م</u>	5	10.	16	1 1031		ACID ICE / OTHE	coc			PRESERV. SAMPLING	Fax #:	Phone #:	State: Zip:	ty:	Address:	Attn:	Company:	0. #:	BILL TO
Correction Factor None	Turnaround Time: Standard Rush	REMARKS:		Verbal Result: ☐ Yes ☐ No	subsidiaries, otherwise.	slient for the	1058 11 1	1046	1050	DS48	74	1036	1035	1025		8 × × ×	TIME	3T TF	EXPH	c ({	8	502								
Nc Yes	Bacteria Cool Int	20×3	Tildi da di coo.	Yes □ No Add'I Phone #:																										ANALYSIS REQUEST
Corrected Temp. °C	sple Condition																						***************************************							IST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:			BILL TO	
Project Manager:			P.O. #:	
Address:			Company:	77
City:	State:	Zip:	Attn:	
Phone #:	Fax #:		Address:	
Project #:	Project Owner:		City:	
Project Name:			State: Zip:	
Project Location:			#:)
Sampler Name:			Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	13TEX (8
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analyses. All claims including the service in no event shall Cardina affiliates or successors ansing our Relinguished By:	analyses. All claims including those of on regigence and any other cause winascevers hall be deemed valved unless made in contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other causes winascevers hall be deemed valved unless made in withing and received by. Cardinal within 30 days after completion of the applicable service in no event shall Cardinal be liable for incidental or consequental damages including without limitation, business interruptions loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services interrupt by Cardinal regardless of whether such claims is based upon any of the above stated reasons or otherwise. Re Inquisit hed RV	is exclusive refriety to any datin arising whether based in contract or use whatsoever shall be deemed waived unless made in writing and re entail damages including without limitation business interruptions loss services heterander by Caddinal repartitiess of whether such claim is because if the contract of the contr	or tort shall be limited to the emount paid by the client (or it received by Cardinal within 30 days after completion of the received by Cardinal within 30 days after completion of the set of use or loss of profits incurred by client, its subsidiarins based upon any of the above stated reasons or otherwise.	pplicable
Refinguished By:	Time; 22	Received By:	Molske	Phone Result:
	Time:			3013
Sampler - UPS - E	Bus - Other: スプ	Cool Intact		
	879	TI/IS No No	70.	



September 09, 2020

LYNN A ACOSTA
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: HOGNOSE VIPER 23 FED #1H

Enclosed are the results of analyses for samples received by the laboratory on 09/08/20 8:55.

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

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/08/2020 Sampling Date: 09/05/2020 Reported: 09/09/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)

Project Number: WO# 20835626 Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S5 - 2' (H002369-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2020	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	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	<10.0	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					
Surrogate: 1-Chlorooctane	91.4 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.0 9	% 42.2-15	6						

Sample ID: S5 - 3' (H002369-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/08/2020	ND	416	104	400	8.00	

Sample ID: S5 - 4' (H002369-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/08/2020	ND	416	104	400	8.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Souder Miller 3 +	Associates	BILL TO	ANALYSIS DECLIEST
		P.O.#: 26835626	
Address: 201 S. Hala awno St.		ny: Devicin Evr	***
City: Cirksback State: WM	Zip: 88720	of Cari	2
Phone #: (505) 516-7469 Fax #:		ss:	
Project #: Project Owner:		City:	
Project Name: HOUNDS Wiper 23	H1 # 127	State: Zip:	
Project Location: Jal, MM		#	
Sampler Name: CHAIN A. Accold		Fax #:	55)
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	WATER		H (8)
462369	# CONT GROUN WASTE SOIL OIL SLUDG	OTHER ACID/BA ICE / CC OTHER DATE	
.52	X - 1 5	X 96/20 0	X
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive segme	for any obligation which the first first		
those for negligence and any other dinal be liable for incidental or conse out of or related to the performance	cause whatsoever shall be deemed waived unless made in outladd of fort, quental darmages including without limitation business interruptions loss of up of services hereunder by Cardinal regardless of whether such plaim is besen	ir fort. shall be limited to the amount paid by the clien received by Cardinal within 30 days after completion so of use or loss of profits incurred by client, its sub-based upon any of the above.	n for the of the applicable sidiaries
Times 53	Received By:	Phone Result: Fax Result: REMARKS:	Result: □ Yes □ No Add'l Phone #: sult: □ Yes □ No Add'l Fax #: KS:
Relinquished By: Date:	Received By:	was you can	MM. acosmo sweer miller-com
Delivered By: (Circle One)		오	
Sampler - UPS - Bus - Other: 8.36	#13 Dyes Pres	Outrals)	



September 03, 2020

LYNN A ACOSTA
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: HOGNOSE VIPER 23 FED #1H

Enclosed are the results of analyses for samples received by the laboratory on 09/01/20 11:22.

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

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Coo

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S1 - 2' (H002310-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result 208 432 400 Chloride 16.0 09/02/2020 ND 108 3.77

Sample ID: S3 - 2' (H002310-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	ND	432	108	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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	92.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.2	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S5 - 3' (H002310-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	09/02/2020	ND	432	108	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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	23.3	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	91.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

Sample ID: S6 - 2' (H002310-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	ND	432	108	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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	95.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.6	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S7 - 2' (H002310-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride <16.0 16.0 09/02/2020 ND 432 108 400 3.77

Sample ID: S10 - 2' (H002310-07)

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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	96.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	94.7	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: S11 - 2' (H002310-08)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	ND	432	108	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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

Sample ID: S12 - 2' (H002310-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	ND	432	108	400	3.77	

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: L1 - 1' (H002310-11)

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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	86.1	% 42.2-15	6						

Sample ID: L2 - 1' (H002310-12)

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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	84.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	83.3	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES LYNN A ACOSTA 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 09/01/2020 Sampling Date: 08/29/2020

Reported: 09/03/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: L3 - 1' (H002310-13)

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	09/02/2020	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	225	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.2	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

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

Observed Temp. °C 4, 2 Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

Thermometer ID #113
Correction Factor None

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	Ya	Time:
	Réceived By:	Relinquished By: Date:
n albstalo Ewder miner. Com	your ouruso!	12.12 North
All Results are emailed. Please provide Email address:	nd: Min son	\
sult: Yes No Add'l Phone #:	of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above scalar regardless of whether such claim is based upon any of the above scalar regardless of orderwas. Verbal Result:	affiliates or successors arising out of or related to the performance of services hereu
ite diplandarie lifes,	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 arter compleuous or use physical respectives. 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,	analyses. All claims including those for negligence and any other cause whatsoever service. In no event shall Cardinal be liable for incidental or consequental damages
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	St Company: LEVON WAR	Address: 201 S. Halquero
	P.O.#: 208 35626	Project Manager: CUMM ACOSTE
ANALYSIS REQUEST	3 Associates BILL TO	Company Name: Cyn Mary Miller
)3-2476	(575) 393-2326 FAX (575) 393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:			BILL TO		ANAI YSIS I	PEOLIEST
Project Manager:			P.O. #:			7000
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Page 10 of 10



November 16, 2020

ASHLEY MAXWELL
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: HOGNOSE VIPER 23 FED #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/12/20 13:00.

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

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil
Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: **(

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS1 (H003008-01)

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	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	89.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.8	% 42.2-15	6						

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Celeg & Freene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Sample Received By: Project Number: WO# 20835626 Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS2 (H003008-02)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	64.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.0	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS3 (H003008-03)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	< 0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	80.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.7	% 42.2-15	6						

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Celey D. Kreine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Sample Received By: Project Number: WO# 20835626 Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS4 (H003008-04)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.4	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Sample Received By: Project Number: WO# 20835626 Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS5 (H003008-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS6 (H003008-06)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	85.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	79.1	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: CS7 (H003008-07)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	83.6	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS8 (H003008-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	< 0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	84.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.1	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS9 (H003008-09)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	64.0	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.3	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: CS10 (H003008-10)

RTFY 8021R

B1EX 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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	272	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76.4	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS11 (H003008-11)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	512	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	90.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS12 (H003008-12)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	112	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.1	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: CS13 (H003008-13)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	304	16.0	11/13/2020	ND	432	108	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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	80.7	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: DEVON ENERGY - JAL, NM

mg/kg

Sample ID: CS14 (H003008-14)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	90.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.7	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: CS15 (H003008-15)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	832	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.0	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS16 (H003008-16)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.7	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil
Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: **(

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS17 (H003008-17)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	87.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.7	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220

Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS18 (H003008-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	<16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	97.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.3	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS19 (H003008-19)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	78.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	72.7	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW1 (H003008-20)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	144	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	132	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	44.7	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.9	% 42.2-15	6						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW2 (H003008-21)

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	11/13/2020	ND	1.98	99.2	2.00	1.85	
Toluene*	<0.050	0.050	11/13/2020	ND	1.92	96.0	2.00	1.71	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	2.68	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.75	95.8	6.00	2.59	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	112	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	47.7	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	11.8	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	84.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.9	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW3 (H003008-22)

Analyte Result Reporting Limit Analyzed Method Blank BS % Record Benzene* <0.050 0.050 11/13/2020 ND 2.01 101 Toluene* <0.050 0.050 11/13/2020 ND 1.95 97.3 Ethylbenzene* <0.050 0.050 11/13/2020 ND 2.05 102 Total Xylenes* <0.150 0.150 11/13/2020 ND 5.85 97.4 Total BTEX <0.300 0.300 11/13/2020 ND ND 5.85 97.4 Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Analyzed By: AC Method Blank BS % Record Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100 TPH 8015M mg/kg Analyzed By: MS	1 2.00 3 2.00 2 2.00	RPD 0.966 1.11 1.40 1.49	Qualifier
Toluene* < 0.050	2.00 2 2.00	1.11 1.40	
Ethylbenzene* < 0.050	2 2.00	1.40	
Total Xylenes* <0.150 0.150 11/13/2020 ND 5.85 97.4 Total BTEX <0.300 0.300 11/13/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100			
Total BTEX < 0.300 0.300 11/13/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100	4 6.00	1.49	
Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100			
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100			
Analyte Result Reporting Limit Analyzed Method Blank BS % Record Chloride 368 16.0 11/13/2020 ND 400 100			
Chloride 368 16.0 11/13/2020 ND 400 100			
**************************************	overy True Value QC	RPD	Qualifier
TPH 8015M mg/kg Analyzed By: MS	0 400	3.92	
Analyte Result Reporting Limit Analyzed Method Blank BS % Reco	overy True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 11/13/2020 ND 242 121	1 200	12.4	
DRO >C10-C28* 55.9 10.0 11/13/2020 ND 242 121	1 200	18.7	
EXT DRO >C28-C36 12.1 10.0 11/13/2020 ND			
Surrogate: 1-Chlorooctane 89.5 % 44.3-144			
Surrogate: 1-Chlorooctadecane 86.5 % 42.2-156			

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: 11/16/2020 Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes) Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW4 (H003008-23)

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	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	288	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	88.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.0	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: DEVON ENERGY - JAL, NM

ma/ka

Sample ID: SW5 (H003008-24)

RTFY 8021R

B1EX 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	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	784	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	20.6	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	79.4	% 42.2-15	6						
			-						

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Celey D. Keine



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW6 (H003008-25)

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	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	43.8	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	14.3	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.7	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW7 (H003008-26)

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	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.5	% 42.2-15	6						

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW8 (H003008-27)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/14/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/14/2020	ND					
Surrogate: 1-Chlorooctane	88.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.4	% 42.2-15	6						

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Celeg & Freene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/16/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: ** (See Notes)
Project Number: WO# 20835626 Sample Received By: Jodi Henson

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW9 (H003008-28)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.01	101	2.00	0.966	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.3	2.00	1.11	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.85	97.4	6.00	1.49	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2020	ND	242	121	200	12.4	
DRO >C10-C28*	<10.0	10.0	11/14/2020	ND	242	121	200	18.7	
EXT DRO >C28-C36	<10.0	10.0	11/14/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.1	% 42.2-15	6						

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Celey D. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Project Manager: Soupler	Miller & Hissociaties	BILLIO		AM	ANALYSIS RE	REQUEST
rioject manager: Ashley	Maxwell	P.O. #:			- 1	
Address: 201 S. He	alaquene St.	Company:			6	
City: Carlsback	State: Nm Zip: 88220					
Phone #:	Fax #:	Address:				
Project #:	Project Owner:	City:				
Project Name: Hognese	Cipe 23 Feeleral	/ H State: Zip:				
Project Location:		#				
Sampler Name: Se		Fax #:				
FOR LAB USE ONLY		ESERV.	SAMPLING			
	S ER					
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PLEASE NOTE: Liability and Damages, Cardinal's liability and cli	ent's excli		9:50			
malyses. All claims including those for negligence and any other cause ervice. In no event shall Cardinal be liable for incidental or consequent filiates or successors arising out of or related to the performance of ser	cause quent of se	cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable quential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, of services hereunder by Cardinal, regardless of whether such claims is beseduence and of the characteristic by Cardinal, regardless of whether such claims is beseduence are of the characteristic by Cardinal, regardless of whether such claims is beseduence and of the characteristic by Cardinal, regardless of whether such claims is beseduence.	id by the client for the er completion of the applicable client, its subsidiaries,			
remidualied by.	Date: 2 20 Received By:	11	Verbal Result: ☐ Yes	s 🗆 No Add'	Add'l Phone #:	
Wasteren !	8	Sunson	All Results are emailed. Please provide Email address:	Please provide En	nail address:	
veiliiduisiled by:	Date: Received By:		REMARKS:			
Delivered By: (Circle One)	emp. °C 8,8	Sample Condition CHECKEDIBY:				
Sampler - UPS - Bus - Other:		AE	Thermometer ID #113	Rush	Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 393-2326 FAX (5/5) 393-24/6	5) 393-2476		
Company Name: Swaler Miller	Associates BILL TO	TO ANALYSIS REQUEST	
Project Manager: Ashley Moxue	P.O.#:		
Address: 201 S. Hologuero	were St. Company:		
	State: Nm Zip: &8220 Attn:		
Phone #: Fax #:	Address:		
Project #: Proje	Project Owner: City:		
Project Name: Afognest Open	23 Lectoral 1H State: Zip:		_
Project Location:	Phone #:		
Sampler Name: SC	Fax #:		
FOR LABUSE ONLY	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	ASE:	PH V	
HODSOS	# CON GROU WAST SOIL OIL SLUD OTHE ACID/ ICE / (
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1		16:40	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusion analyses. All claims including those for negligence and any other cause what service. In no event shall Cardinal be liabile for incidental or consequental dark	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion or the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose limited in the consequential damages, including whose limited in the consequential damages.	mount paid by the client for the days after completion of the applicable unred by client, its subsidiaries,	
Relinquished By: Date:	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:	
Time:	May surrien		
Refinduished By: Date:	Received By:	REMARKS:	
Time:	,		
Delivered By: (Circle One) Observed	Observed Temp. °C 8.8 Sample Condition CHECKED BY:	Y: Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	C
Sampler - UPS - Bus - Other: Corrected Temp. °C	Temp. °C	Yes Yes	, (

Sampler - UPS - Bus - Other:

Corrected Temp.

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

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Common Homo:		•	30000000000000000000000000000000000000			
Janoler Miller & +	ascouches.	BILL 10		ANA	ANALYSIS REQUEST	
Project Manager: Ashley Maxwell		P.O. #:				
Address: 201 S. Halagiero St.		Company:				
City: Cockball State: NN	State: NM Zip: 88720	Attn:				
Phone #: Fax #:		Address:				
Project #: Project Owner:	er:	City:				
Project Name: Hoynese Oper 23	Lecteral /14	State: Zip:				
Project Location:		Phone #:				
Sampler Name: SO		Fax #:				
FOR LAB USE ONLY	MATRIX	ESERV.	SAMPLING			
Lab I.D. Sample I.D.	ONTAINERS OUNDWATER STEWATER	ER: D/BASE: COOL ER:	BTEX	2/		
HD03008	GRO WAS SOIL	ACII	TIME	((
		1.1	-	1		
			11:15			
24 SW5			11:20			
25 Sw6			11:25			
26 8W7			11:30			
			11:35			
28 Sw9			11:40	-		
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the raises whatenesses hall claims including those for negligence and any other cause whatenesses hall be remedy watered waters made in written and reported by Condition 1 at 15.0 and	any claim arising whether based in contract or desproed walked limbers made in writing and	or fort, shall be limited to the amount pa	d by the client for the			
filialise or successors arising out of related to the performance of services hereunder by Cardinal, legardless of whether such claim is biased upon any of the above stated reasons or otherwise. Received By: Received By:	up winou imitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether such claim is based upon any of the above stated real Received By:	ss of use, or loss of profits incurred by sbased upon any of the above stated re	asons or otherwise. Verbal Result: Yes	ON O	Add'l Phone #:	
plewillan C. Time:		Muson	emaile	Please provide Em	nail address:	
Refinquished By: Time:	Regelved By:		REMARKS:			
Delivered By: (Circle One) Observed Temp. °C 8, 8	8.8 Sample Condition	On CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	



December 01, 2020

ASHLEY MAXWELL SOUDER MILLER AND ASSOCIATES 201 S. HALAGUENO CARLSBAD, NM 88220

RE: HOGNOSE VIPER 23 FED #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/25/20 11:05.

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

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/25/2020 Sampling Date: 11/23/2020

Reported: 12/01/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: CS 15 (H003119-01)

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	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES ASHLEY MAXWELL 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/25/2020 Sampling Date: 11/23/2020

Reported: Sampling Type: Soil 12/01/2020

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW 1 (H003119-02)

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	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					
Surrogate: 1-Chlorooctane	120 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	120 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 11/25/2020 Sampling Date: 11/23/2020

Reported: 12/01/2020 Sampling Type: Soil

Project Name: HOGNOSE VIPER 23 FED #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: DEVON ENERGY - JAL, NM

Sample ID: SW 5 (H003119-03)

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	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					
Surrogate: 1-Chlorooctane	124	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	123	% 42.2-15	6						

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*=Accredited Analyte

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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

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Celey D. Keine

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Date: Itime: Date: Time: Observed Temp. °C Corrected Temp. °C	and client's exclusive remedy for an other cause whatscever shall be consequental damages, including mone of services hereunder by C	(G)RAB OR (C)OMP.	FAX (575) 393-2476 Cer(55) 393-2476 Maxwell Aclegance State: 1/M Zip: Fax #: Project Owner: O, 17 er 23
Received BY: Received BY: Received BY: Received BY: Remarks: Remarks:	y claim asising whether based in co learned waived unless made in with without limitation, business interrup ardinal, regardless of whether such	GROUNDWATER GROUNDWATER WASTEWATER X X SOIL OIL SLUDGE	S88220 MATRIX
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All Results are emane A SWICY. REMARKS: Turnaround Time: Thermometer ID #113 Correction Factor Non nail changes to celey.keen	amount paid by the client for the 10 days after completion of the applic for the client for the control of the application of t	DATE TIME 11:30 11:30 11:40 11:40	SAMPLING X (8021)
are emaned. From a Stand Time: Stand Time: Stand Factor None eriD #113 Factor None eley.keene@car	e applicable s, Utt:	H-TP+	1:80150
Standard Bacteria (only Standard Good Intact Rush Good Intact Pes Yes No	applicable Tes □ No Add'l Phone #: Sult: □ Yes □ No Add'l Phone #:		ANALYSIS REQUEST
Bacteria (only) Sample Condition (Cgo) Intact Observed Temp. °C Yes Yes Yes No Corrected Temp. °C om			ST

APPENDIX E PHOTO LOG

O 314°NW (T) ■ 32°17'2"N, 103°32'57"W ±147ft ▲ 3688ft



O 217°SW (T) ● 32°17'2"N, 103°32'57"W ±19ft ▲ 3688ft



Received by OCD: 7/27/2023 2:24 Page 121 of 130

O 160°S (T) ● 32°17'2"N, 103°32'57"W ±22ft ▲ 3688ft



27/2023 2:2 Page 122 of 130 m O 54°NE (T) ● 32°17'2"N, 103°32'58"W ±13ft ▲ 3690ft Released to Imaging: 8/15/2023 7:50:31 AM

Received by OCD: 7/27/2023 2:2 Page 123 of 130

O 177°S (T) ● 32°17'2"N, 103°32'57"W ±13ft ▲ 3688ft



O 86°E (T) ● 32°17'2"N, 103°32'58"W ±36ft ▲ 3688ft



O 142°SE (T) ● 32°17'1"N, 103°32'58"W ±22ft ▲ 3688ft



O 54°NE (T) ● 32°17'1"N, 103°32'58"W ±26ft ▲ 3685ft



Received by OCD: 7/27/2023 2:2 Page 127 of 130

O 148°SE (T) ■ 32°17'1"N, 103°32'58"W ±13ft ▲ 3689ft Released to Imaging: 8/15/2023



Released to

8/15/2023 7:50:31 AM

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

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

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

CONDITIONS

Action 245276

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	245276
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Deferral request approved. Impacts above the reclamation standards has been left in place and is required to be addressed once site is no longer reasonably needed for production or drilling ops.	8/15/2023