

December 10, 2020

#5E29133-BG62

NMOCD District 2 811 S. First St., Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Todd 15-7 Battery Release (NRM2014568830), Eddy 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 Todd 15 – 7 Battery site. The site is in Unit G, Section 15, Township 23S, Range 31E, Eddy 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	Todd 15 – 7 Battery	Company	Devon Energy Production Company			
API Number	30-015-32016	Location	32.3062194, -103.7635472			
Tracking Number	N	NRM2014568830				
Estimated Date of Release	5/20/2020	Date Reported to NMOCD	5/21/2020			
Land Owner	Federal	Reported To	NMOCD, BLM			
Source of Release	Overflow from vent tank caused by a loss in pressure at the separation equipment.					
Released Volume	22.35 BBLS	Released Material	Crude Oil			
Recovered Volume	20.0 BBLS	Net Release	2.35 BBLS			
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	9/16/2020, 9/29/2020, 11/12/2020, 11/16/2020					

Todd 15 – 7 Battery Remediation Closure Report December 10, 2020

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1.0 Background

On May 20, 2020, a release was discovered at the Todd 15 – 7 Battery site due to overflow from the vent tank caused by a loss in pressure at the separation equipment. Initial response activities were conducted by the operator, and included source elimination and site stabilization activities, which recovered approximately 20.0 barrels of crude oil of the 22.35 barrels released. 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 Todd 15 – 7 Battery is located approximately 28 miles southeast of Carlsbad, New Mexico on Federal (BLM) land at an elevation of approximately 3,453 feet above mean sea level (amsl).

Depth to Groundwater

Based upon Office of the State Engineer well data (Appendix B), depth to groundwater in the area is estimated to be 639 feet below grade surface (bgs).

Wellhead Protection Area

There is one 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 watercourse is a New Mexico wetland, located approximately 13,135 feet to the northeast of the Todd 15 - 7 Battery site.

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, and to the applicable reclamation requirements for most of the release area, 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 September 16, and 29, 2020, SMA personnel performed site delineation activities at the Todd 15 – 7 Battery site. SMA collected soil samples around the release site and throughout the visibly stained area. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of four sample locations (T1 – T4) were investigated using a hand-auger to depths of up to 2 feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods above. A total of nine 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.

On November 12, 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 using the methods above. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on November 12, 2020 that closure samples were expected to be collected in two (2) business days.

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On November 16, 2020, SMA collected confirmation samples from the walls and base of the excavation, which measured approximately 12.5 by 21 by 1.5 feet, representing all initial sample locations (T1 – T4). Confirmation samples were comprised of five-point composites of the base (CS1) and walls (SW1 – SW4).

A total of five confirmation 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 Envirotech in Farmington, New Mexico (Appendix D).

Figure 3 shows the site and initial sample locations, Figure 3A shows the extent of the final excavation and closure sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

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 near Jal, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of NRM2014568830.

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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 Ashley Maxwell at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Scientist

Shawna Chubbuck Senior Scientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 11/19/2020

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Initial Sample Location Map

Figure 3A: Site and Confirmation Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

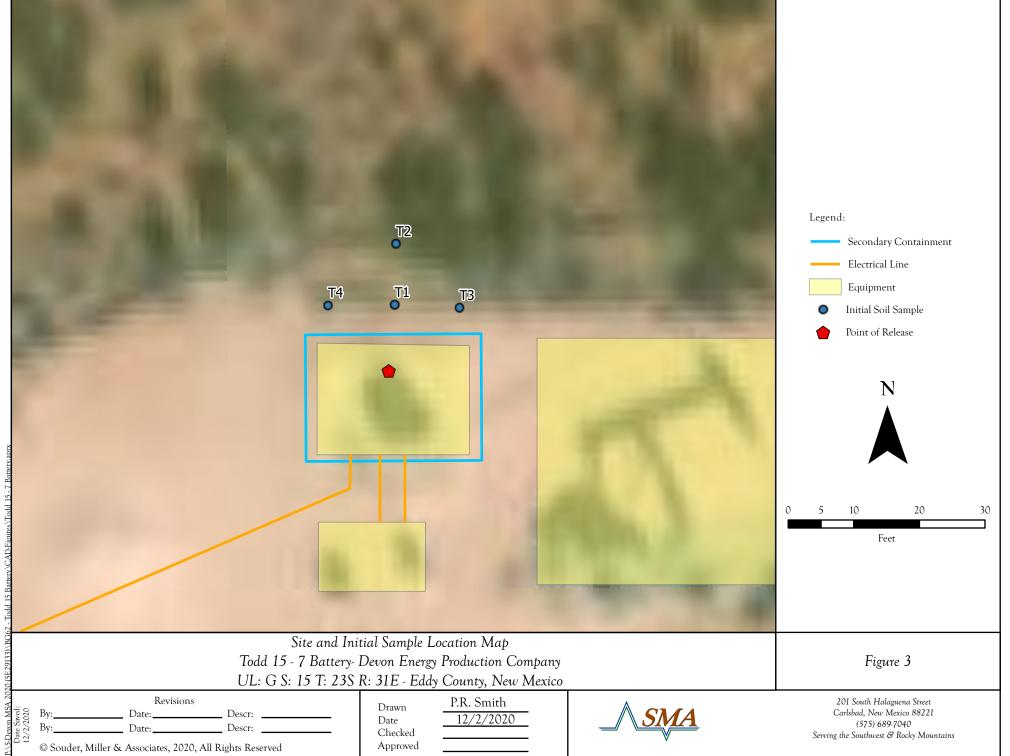
Appendix A: Form C141

Appendix B: NMOSE Wells Report

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

Appendix E: Photo Log

FIGURES



12/3/2020

(575) 689-7040

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Date

Checked

Approved

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TABLES

Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMAC	Source/Notes	
Depth to Groundwater (feet bgs)	639	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	United States Geological Survey Topo Map
Hortizontal Distance to Nearest Significant Watercourse (ft)	13,135	New Mexico Wetland

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
		Closu	ure Criteria	(units in n	ng/kg)	
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	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			if yes	s, then		
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	No No					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	No 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					
within area overlying a subsurface mine	No	1				
within an unstable area?	No (Low.Karst)	1				
within a 100-year floodplain?	No	1				

Table 3: Sample Results

		Depth of Sample	Action	Metho	od 8021B		Metho	d 8015D		Method 300.0
Sample ID	Sample Date	(feet bgs)	Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NM	OCD Reclamat	ion Requirement (0-4 ft)	50	10		-	-	100	600
	NMOCD Clos	sure Criteria (>4 ft)		50	10		-	-	100	600
		Surface	Excavated	<0.1	<0.0250	<20.0	7690	5660	13350	<20.0
T1	9/16/2020	1	Excavated	<0.1	<0.0250	<20.0	701	420	1121	<20.0
		2	In-Situ	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	30.8
T2	9/16/2020	Surface	Excavated	<0.1	<0.0250	<20.0	77.8	94.1	171.9	<20.0
12	9/29/2020	1	In-Situ	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	44
Т3	9/16/2020	Surface	Excavated	<0.1	<0.0250	<20.0	536	587	1123	<20.0
13	9/29/2020	1	In-Situ	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	51.2
T4	9/16/2020	Surface	Excavated	<0.1	<0.0250	<20.0	1160	1230	2390	<20.0
14	9/29/2020	1	In-Situ	<0.1	<0.0250	<20.0	54.1	<50.0	54.1	219
				Confirm	ation Samples					
CS1		1.5		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	78.9
SW1]			<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW2	SW2 11/16/2020	0 1 5	In-Situ	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	24.4
SW3	1	0 - 1.5		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW4				<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	65.8

"--" = 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	NRM2014568830
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy				OGRID 6137				
Contact Nar	^{ne} Amand	a Trujillo Dav	is		Contact Telephone 575-748-0176			
Contact email amanda.davis@dvn.com			Incident #	(assigned by OCD)				
Contact mai	ling address	6488 Seven	Rivers Highw	/ay				
					Release So	ource		
Latitude 32	2.3062194	ļ			Longitude _	-103.763547	72	
			(NAD 83 in	decimal de	egrees to 5 decin	nal places)		
Site Name T	odd 15 - 1	7 Battery			Site Type (Central Tank	k Battery	
Date Release	e Discovered	5/20/2020			API# (if app			
							1	
Unit Letter	Section	Township	Range		Coun	ity		
G	15	23S	31E	Edd	y County			
Surface Owne	er: State	✓ Federal ☐ 7	Γribal ∏ Private	: (Name:)	
				·			,	
			Nature ai	nd Vo	lume of I	Release		
		al(s) Released (Select	all that apply and atta	nch calcula	tions or specific	justification for the	volumes provided below)	
Crude O	il	Volume Releas	sed (bbls) 22.35			Volume Recovered (bbls) 20.0		
Produced	d Water	Volume Releas	sed (bbls)			Volume Recovered (bbls)		
			ation of dissolved r >10,000 mg/l?	d chlorid	e in the	☐ Yes ☐ No		
Condens	ate	Volume Releas	sed (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)	Volume/Weig	tht Recovered (provide units)			
Cause of Re	lease	1				1		
							a vent tank, causing it to over overspray hit the adjoing	
nootur	ie ielease		an unimieu ea	ı ıı ı c ı ı (Julianine	iii. A Siliali (overspray filt the aujoing	

Please see the attached spill calculator.

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Incident ID	NRM2014568830
District RP	
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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 R	esponse
The responsible	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 ha	ave been contained via the use of berms or o	ikes, 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	why:
Per 19 15 29 8 B (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger DCD 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: Amanda	a Trujillo Davis	Title: Environmental Professional
Signature:		Date: 5/21/2020
email: <u>amanda.davi</u>	s@dvn com	Telephone: 575-748-0176
aniana.aavi	<u> </u>	Telephone:
OCD Only		
Received by: Rame	ona Marcus	Date: 5/24/2020
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	639 (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 wel Field data Data table of soil contaminant concentration data Depth to water determination 	ls.

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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public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a t	he best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger to OCD does not relieve the operator of liability should their operations have hreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name:Lupe Carrasco	Title:EHS Professional
Signature: Lups Carrasco	Date:1/28/21
email:Lupe.Carrasco@dvn.com	Telephone:575-748-0165
OCD Only	
Received by:	Date:
Signature:email:Lupe.Carrasco@dvn.com	

State of New Mexico

Incident ID NPM2014568830

Incident ID	NRM2014568830
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.

OCD Only	Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.
must be notified 2 days prior to liner inspection) ☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) ☑ Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Lupe Carrasco Title: _EHS Professional Signature:Lupe Carrasco@dvn.com Telephone:/1/28/21 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:	☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Lupe Carrasco Title: _EHS Professional Signature:Lupe Carrasco Title: _EHS Professional Signature:Lupe.Carrasco@dvn.com Telephone:1/28/21 email:Lupe.Carrasco@dvn.com Telephone:1/28/21 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:		of the liner integrity if applicable (Note: appropriate OCD District office
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 by the OCD 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:Lupe Carrasco Title: _EHS Professional Signature:Lupe Carrasco Date: Date:	☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Lupe Carrasco Title: _EHS Professional Bate: 1/28/21 email: Lupe.Carrasco@dvn.com Telephone: 1/28/21 OCD Only Received by: Date: 1/28/21 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: Date:	Description of remediation activities	
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Lupe Carrasco Title: _EHS Professional Signature: Lupe Carrasco Date: 1/28/21 email: Lupe.Carrasco@dvn.com Telephone: 1/28/21 OCD Only Received by: Date: 1/28/21 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: Date: Date: Date: Date: Date: Date: Date: D		
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:	and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:Lupe Carrasco	release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Citle:EHS Professional
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:	OCD Only	
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:	Received by:	Date:
	remediate contamination that poses a threat to groundwater, surface w	vater, human health, or the environment nor does not relieve the responsible
Printed Name: Title:	Closure Approved by:	Date:
	Printed Name:	Title:

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Spill Volume(Bbls) Calculator Inputs in blue, Outputs in red											
Contaminated Soil measurement											
Length(Ft)	Width(Ft)	Depth(Ft)									
<u>30</u>	<u>24.000</u>	<u>0.021</u>									
Cubic Feet of S	Soil Impacted	<u>15.120</u>									
Barrels of So	il Impacted	<u>2.70</u>									
Soil T	ype	Clay/Sand									
Barrels of Oi	l Assuming	<u>0.40</u>									
100% Sat	uration										
Saturation	Fluid pre	esent with shovel/backhoe									
Estimated Ba	rrels of Oil	0.40									
Relea	sed	0.10									
	Free Stand	ing Fluid Only									
Length(Ft)	Width(Ft)	Depth(Ft)									
<u>0</u>	0.000	0.000									
Standin	g fluid	0.000									
<u>Total fluid</u>	ls spilled	<u>0.404</u>									

Instru	cti	OF	2
HISTIC	ш	OI.	15

- 1.Input spill area measurements in feet, if less than one foot use converter below.
- 2. Select a soil type from the drop down menu.3. Select a saturation level from the drop down menu.

(For data gathering instructions see appendix tab)

Spills In Lined Containment									
Measurements Of Standir	ng Fluid								
Length(Ft)	18								
Width(Ft)	18								
Depth(in.)	5								
Total Capacity without tank displacements (bbls)	24.04								
No. of 500 bbl Tanks In Standing Fluid									
No. of Other Tanks In Standing Fluid	1								
OD Of Other Tanks In Standing Fluid(feet)	6								
Total Volume of standing fluid accounting for tank displacement.	21.95								

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)

3 ,	/	` '	`	, ,		,	•	,
	POD							
	Sub-	QQQ				D	epth Dep	oth Water
POD Number	Code basin Cou	nty 64 16 4 Sec	Tws Rng	Х	Υ	Distance	Well Wa	ter Column
C 02777	CUB EI	0 4 4 4 10	23S 31E	616974	3575662 🌍	836	890	
C 03749 POD1	CUB EI	2 2 15	23S 31E	616974	3575662 🌕	836	865 6	39 226

Average Depth to Water: 639 feet

Minimum Depth: 639 feet

Maximum Depth: 639 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 616403.659 **Northing (Y):** 3575049.953 **Radius:** 850

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

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on Cotton Draw Unit #294H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

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 Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of eight (8) 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.

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APPENDIX D LABORATORY ANALYTICAL REPORTS

Report to:
Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220









5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Todd 15-7 Battery

Work Order: P009082

Job Number: 01058-0007

Received: 9/22/2020

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/25/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 9/25/20

Ashley Maxwell 201 S Halagueno St. Carlsbad, NM 88220



Project Name: Todd 15-7 Battery

Workorder: P009082

Date Received: 9/22/2020 11:00:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/22/2020 11:00:00AM, under the Project Name: Todd 15-7 Battery.

The analytical test results summarized in this report with the Project Name: Todd 15-7 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Lopez

Laboratory Administrator Office: 505-632-1881

rlopez@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

So	ouder Miller Associates - Carlsbad	Project Name:	Todd 15-7 Battery	Donoutoda
20	01 S Halagueno St.	Project Number:	01058-0007	Reported:
Ca	arlsbad NM, 88220	Project Manager:	Ashley Maxwell	09/25/20 08:30

Client Sample ID	Lab Sample ID Ma	trix Sampled	Received	Container
T1- Surface	P009082-01A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.
T1- 1'	P009082-02A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.
T1-2'	P009082-03A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.
T2- Surface	P009082-04A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.
T3- Surface	P009082-05A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.
T4- Surface	P009082-06A S	oil 09/16/20	09/22/20	Glass Jar, 4 oz.



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T1- Surface P009082-01

	1 007062-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	:: IY		Batch: 2039008
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0500	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
	96.4 %	70-130	09/22/20	09/22/20	
mg/kg	mg/kg	Analyst	:: IY		Batch: 2039008
ND	20.0	1	09/22/20	09/22/20	
	86.1 %	70-130	09/22/20	09/22/20	
mg/kg	mg/kg	Analyst	:: JL		Batch: 2039009
7690	1250	50	09/22/20	09/22/20	
5660	2500	50	09/22/20	09/22/20	
	141 %	50-200	09/22/20	09/22/20	
mg/kg	mg/kg	Analyst	:: NE		Batch: 2039005
ND				09/22/20	
	mg/kg ND ND ND ND ND ND ND The state of the	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 86.1 % mg/kg mg/kg mg/kg 7690 1250 5660 2500 141 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 MD 0.0250 1 MB/kg mg/kg Analyst ND 20.0 1 86.1 % 70-130 mg/kg mg/kg Analyst 7690 1250 50 5660 2500 50 141 % 50-200 mg/kg mg/kg Analyst	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 09/22/20 mg/kg mg/kg Analyst: IY ND 20.0 1 09/22/20 mg/kg mg/kg Analyst: IV ND 20.0 1 09/22/20 86.1 % 70-130 09/22/20 mg/kg mg/kg Analyst: JL 7690 1250 50 09/22/20 5660 2500 50 09/22/20 mg/kg mg/kg Analyst: NE	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0500 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 mg/kg mg/kg Analyst: IY ND 09/22/20 09/22/20 mg/kg mg/kg Analyst: IY ND 20.0 1 09/22/20 09/22/20 mg/kg mg/kg Analyst: IY ND 20.0 1 09/22/20 09/22/20 mg/kg mg/kg Analyst: JL 09/22/20 09/22/20 09/22/20 mg/kg mg/kg Analyst: JL 09/22/20 09/22/20 09/22/20 <td< td=""></td<>



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T1-1'

P009082-02

		1007002 02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	•		Batch: 2039008
Benzene	ND	0.0250	1	09/22/20	09/22/20	
Toluene	ND	0.0250	1	09/22/20	09/22/20	
Ethylbenzene	ND	0.0250	1	09/22/20	09/22/20	
p,m-Xylene	ND	0.0500	1	09/22/20	09/22/20	
o-Xylene	ND	0.0250	1	09/22/20	09/22/20	
Total Xylenes	ND	0.0250	1	09/22/20	09/22/20	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2039008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/20	09/22/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2039009
Diesel Range Organics (C10-C28)	701	125	5	09/22/20	09/22/20	
Oil Range Organics (C28-C40)	420	250	5	09/22/20	09/22/20	
Surrogate: n-Nonane		111 %	50-200	09/22/20	09/22/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: NE		Batch: 2039005
Chloride	ND	20.0	1	09/22/20	09/22/20	



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T1- 2'

P009082-03

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Result	Limit	Dilutio	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: IY		Batch: 2039008
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0500	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
ND	0.0250	1	09/22/20	09/22/20	
	99.7 %	70-130	09/22/20	09/22/20	
mg/kg	mg/kg	An	alyst: IY		Batch: 2039008
ND	20.0	1	09/22/20	09/22/20	
	87.4 %	70-130	09/22/20	09/22/20	
mg/kg	mg/kg	An	alyst: JL		Batch: 2039009
ND	25.0	1	09/22/20	09/22/20	
ND	50.0	1	09/22/20	09/22/20	
	92.6 %	50-200	09/22/20	09/22/20	
mg/kg	mg/kg	An	alyst: NE		Batch: 2039005
mg/Kg					
	ND Mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 87.4 % mg/kg ND 25.0 ND 50.0 92.6 %	Result Limit Dilution mg/kg mg/kg An ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg An ND 20.0 1 87.4 % 70-130 mg/kg mg/kg An ND 25.0 1 ND 50.0 1 92.6 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 09/22/20 ND 0.0250 1 09/22/20 ND 0.0250 1 09/22/20 ND 0.0500 1 09/22/20 ND 0.0250 1 09/22/20 ND 0.0250 1 09/22/20 mg/kg mg/kg Analyst: IY ND 20.0 1 09/22/20 mg/kg mg/kg Analyst: JL ND 25.0 1 09/22/20 ND 50.0 1 09/22/20 92.6 % 50-200 09/22/20	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0500 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 ND 0.0250 1 09/22/20 09/22/20 mg/kg mg/kg Analyst: IY ND 20.0 1 09/22/20 09/22/20 87.4 % 70-130 09/22/20 09/22/20 mg/kg mg/kg Analyst: JL ND 25.0 1 09/22/20 09/22/20 ND 50.0 1 09/22/20 09/22/20 92.6 % 50-200 09/22/20 09/22/20



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T2- Surface P009082-04

		F 009082-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2039008
Benzene	ND	0.0250	1	09/22/20	09/22/20	
Toluene	ND	0.0250	1	09/22/20	09/22/20	
Ethylbenzene	ND	0.0250	1	09/22/20	09/22/20	
p,m-Xylene	ND	0.0500	1	09/22/20	09/22/20	
o-Xylene	ND	0.0250	1	09/22/20	09/22/20	
Total Xylenes	ND	0.0250	1	09/22/20	09/22/20	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2039008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/20	09/22/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2039009
Diesel Range Organics (C10-C28)	77.8	25.0	1	09/22/20	09/23/20	
Oil Range Organics (C28-C40)	94.1	50.0	1	09/22/20	09/23/20	
Surrogate: n-Nonane		121 %	50-200	09/22/20	09/23/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: NE		Batch: 2039005
Chloride	ND	20.0	1	09/22/20	09/22/20	



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T3- Surface P009082-05

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Batch: 2039008
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Batch: 2039009
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Batch: 2039005
0 0



Souder Miller Associates - Carl	Project Name:	Todd 15-7 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

T4- Surface P009082-06

		1 007002-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY	<u> </u>	Batch: 2039008
Benzene	ND	0.0250	1	09/22/20	09/22/20	
Toluene	ND	0.0250	1	09/22/20	09/22/20	
Ethylbenzene	ND	0.0250	1	09/22/20	09/22/20	
o,m-Xylene	ND	0.0500	1	09/22/20	09/22/20	
-Xylene	ND	0.0250	1	09/22/20	09/22/20	
Total Xylenes	ND	0.0250	1	09/22/20	09/22/20	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2039008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/20	09/22/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/22/20	09/22/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2039009
Diesel Range Organics (C10-C28)	1160	250	10	09/22/20	09/22/20	
Oil Range Organics (C28-C40)	1230	500	10	09/22/20	09/22/20	
Surrogate: n-Nonane		116 %	50-200	09/22/20	09/22/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: NE		Batch: 2039005
Chloride	ND	20.0	1	09/22/20	09/22/20	



QC Summary Data

Todd 15-7 Battery Souder Miller Associates - Carlsbad Project Name: Reported: 201 S Halagueno St. Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Maxwell 9/25/2020 8:30:12AM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Prepared: 09/22/20 Analyzed: 09/23/20 Blank (2039008-BLK1) ND 0.0250 ND 0.0250 Toluene Ethylbenzene ND 0.0250 ND p,m-Xylene 0.0500 ND o-Xylene 0.0250 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.23 8.00 103 70-130 Prepared: 09/22/20 Analyzed: 09/23/20 LCS (2039008-BS1) 4.87 97.4 70-130 5.00 Benzene 0.0250 4.97 0.0250 5.00 99.4 70-130 Toluene Ethylbenzene 4.93 0.0250 5.00 98.6 70-130 p,m-Xylene 9.76 0.0500 10.0 97.6 70-130 4.89 5.00 97.8 70-130 0.0250 o-Xvlene 97.7 70-130 14.6 15.0 Total Xylenes 0.0250 8.00 106 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.45 Prepared: 09/22/20 Analyzed: 09/23/20 Matrix Spike (2039008-MS1) Source: P009082-01 Benzene 5.25 0.0250 5.00 ND 105 54-133 108 61-130 Toluene 5.40 0.0250 5.00 ND Ethylbenzene 5.35 0.0250 5.00 ND 107 61-133 ND 63-131 10.6 10.0 106 0.0500 p,m-Xylene o-Xylene 5.26 0.0250 5.00 ND 105 63-131 15.8 0.0250 15.0 ND 63-131 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 8.02 8.00 70-130 **Source: P009082-01** Prepared: 09/22/20 Analyzed: 09/23/20 Matrix Spike Dup (2039008-MSD1) Benzene 4.87 0.0250 5.00 ND 97.3 54-133 7.61 20

4.98

4 95

9.77

4.88

14.7

7.96

0.0250

0.0250

0.0500

0.0250

0.0250

5.00

5.00

10.0

5.00

15.0

8.00

ND

ND

ND

ND

ND

99.7

99.0

97.7

97.6

97.7

99.5

61-130

61-133

63-131

63-131

63-131

70-130

8.04

7.75

7.82

7.55

7.73

20

20

20

20

20



Toluene Ethylbenzene

p.m-Xvlene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

o-Xylene

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Todd 15-7 Battery	Reported:
201 S Halagueno St.	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

Carlsbad NM, 88220		Project Manage	r: As	shley Maxwel	1			9/2	5/2020 8:30:12AM	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: IY		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2039008-BLK1)						Pre	pared: 09/2	22/20 Analyz	ed: 09/23/20	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130				
LCS (2039008-BS2)						Pre	pared: 09/2	22/20 Analyz	ed: 09/23/20	
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130				
Gurrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130				
Matrix Spike (2039008-MS2)				Sou	rce: P0090	082-01 Pre	pared: 09/2	22/20 Analyz	ed: 09/23/20	
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.80		8.00		84.9	70-130				
Matrix Spike Dup (2039008-MSD2)				Sou	rce: P0090	082-01 Pre	pared: 09/2	22/20 Analyz	ed: 09/23/20	
Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130	7.27	20		

8.00

6.91

86.4

70-130

Souder Miller Associates - Carlsbad	Project Name:	Todd 15-7 Battery	Reported:
201 S Halagueno St.	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

Carisbad NWI, 88220		Project Manager	: As	miey Maxwen				3/2	23/2020 8.30.12AW
	Nonha	logenated Or	ganics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2039009-BLK1)						Pre	pared: 09/2	22/20 Analyz	zed: 09/22/20
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C40)	ND	50.0							
urrogate: n-Nonane	47.8		50.0		95.7	50-200			
LCS (2039009-BS1)						Pre	pared: 09/2	22/20 Analyz	zed: 09/22/20
Diesel Range Organics (C10-C28)	463	25.0	500		92.6	38-132			
urrogate: n-Nonane	46.9		50.0		93.8	50-200			
Matrix Spike (2039009-MS1)				Sour	ce: P009	082-01 Pre	pared: 09/2	22/20 Analyz	zed: 09/22/20
Diesel Range Organics (C10-C28)	6100	1250	500	7690	NR	38-132			M4
urrogate: n-Nonane	71.2		50.0		142	50-200			
Matrix Spike Dup (2039009-MSD1)				Sour	ce: P009	082-01 Pre	pared: 09/2	22/20 Analyz	zed: 09/22/20
Diesel Range Organics (C10-C28)	6750	1250	500	7690	NR	38-132	10.1	20	M4
urrogate: n-Nonane	70.9		50.0		142	50-200			

Analyst: NE

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Todd 15-7 Battery	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	9/25/2020 8:30:12AM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
					Pre	pared: 09/2	22/20 Analyz	red: 09/22/20
ND	20.0							
					Pre	pared: 09/2	22/20 Analyz	red: 09/22/20
250	20.0	250		100	90-110			
			Sour	rce: P0090	75-01 Pre	pared: 09/2	22/20 Analyz	red: 09/22/20
579	20.0	250	327	101	80-120			
			Sou	rce: P0090	75-01 Pre	pared: 09/2	22/20 Analyz	red: 09/22/20
590	20.0	250	327	105	80-120	1.97	20	
	ND 250 579	ND 20.0 250 20.0 579 20.0	ND 20.0 250 20.0 250 579 20.0 250	ND 20.0 250 20.0 250 South 579 20.0 250 327 South	ND 20.0 250 20.0 250 100 Source: P0090 579 20.0 250 327 101 Source: P0090	Pre ND 20.0 Pre 250 20.0 250 100 90-110 Source: P009075-01 Pre 579 20.0 250 327 101 80-120 Source: P009075-01 Pre	Prepared: 09/2 ND 20.0 Prepared: 09/2 250 20.0 250 100 90-110 Source: P009075-01 Prepared: 09/2 579 20.0 250 327 101 80-120 Source: P009075-01 Prepared: 09/2	Prepared: 09/22/20 Analyz ND 20.0 Prepared: 09/22/20 Analyz 250 20.0 250 100 90-110 Source: P009075-01 Prepared: 09/22/20 Analyz 579 20.0 250 327 101 80-120 Source: P009075-01 Prepared: 09/22/20 Analyz

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Souder Miller Associates - Carlsbad	Project Name:	Todd 15-7 Battery	
-	201 S Halagueno St.	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	09/25/20 08:30

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



C	hain	of	Custod
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Received by OCD: 1/28/2021 3:03:50 PM

Page 16 of 17

										ab Us	Use Only				AΤ	EPA Program			
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Address:					1 1	City, State, Zip					9	Analy	sis an	d Method	i			Sta	
City, Stat	e, zip				1 1	Phone:												NM CO	UT AZ
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	верос		Rem	arks
111:00	9/16	Soil	1-402	T	ı –	Screace	l l								X				
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1	ed W: (Sign	1	Date		Time 1605	Received by: (Signature)	Date Q/22	120	Time	50		T1			T2			T3	
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Sample Matr	rix: S - Soil. S e	d - Solid, Sg -	Sludge, A - Aq	ueous. O - Ot	her		Container	Type	9 - al	200 1					r glass		/OA		
						Ingements are made. Hazardous samples w	vill be returned to cli	ent or	dispose	d of at	the cl	ient exr	oense	The report	for the	analys	is of the abo	we samples is	applicable
only to those	samples red	eived by the	laboratory wit	h this COC.	The liability of	the laboratory is limited to the amount pair	d for on the report	- COLOR OF THE SECOND				- Line Cal		c report	or the	undiys	is of the abo	ve samples is	applicable

Senvirotech
Analytical Laboratory 24 Hour Emergency Response Fhone (800) 362-1879

PH 505; 532-1381 Fx (505) 632-1865

labadmin@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 9/22/2020 11:04:30AM

Sample Receipt Checklist (SRC)

Instructions:	Please take note of any N	O checkmarks.				
If we receive n	o response concerning th	ese items within	A hours of the date of this notice	e all the same	ales will be analyze	ed as requests

	Souder Miller Associates - Carlsbad	Date Received:	09/22/20	iovc			Control to I top Month of the Control		D000082	
Chem.								Work Order ID		
		Date Logged In: Due Date:	09/22/20 09/28/20			υ ΤΔΤ)		Logged In By:	Raina Lop	ez
Linan.	asincy.maxwen@soudcrimier.com	Duc Date.	07/20/20	17.0	0 (4 ua)	y IAI)				
Chain of C	Custody (COC)		Yes	No						
	sample ID match the COC?		D							
	number of samples per sampling site location mate	th the COC	Ø							
3. Were san	nples dropped off by client or carrier?		P		Ca	rrier: Fed	d Ex			
4. Was the	COC complete, i.e., signatures, dates/times, request	ed analyses?	D							
5. Were all	samples received within holding time?		Ø							
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					г		Comme	ents/Resolutio	<u>on</u>
Sample Tu	rn Around Time (TAT)		Yes	No						
6. Did the 0	COC indicate standard TAT, or Expedited TAT?			N						
Standard Ta	AT 💋 24-hr rush 🗆 Immediate 🗆	48-hr rush □	72-hr	rush						
Sample Co	noler		Yes	No	N/A					
sides remains are	sample cooler received in good condition?		P							
	sample(s) received in tact, i.e., not broken?		W.							
	sample cooler received with custody/security seals i	intact?			Ø					
	amples received with custody/security seals intact?				6					
	sample received on ice? If yes, the recorded temp is 4°C, i	.e., 6°±2°C	Ø							
	Note: Thermal preservation is not required, if samples are r	eceived w/I 15								
	ninutes of sampling sible ice, record the temperature. Actual sample t	emperature: 4°C	2							
Sample Co	ntainer		Yes	No	N/A					
376 W 0763 M					- 11 - 2					
	OC samples collected in VOA Vials?				P					
	ead space less than 6-8 mm (pea sized or less)?				A					
	rip blank (TB) included for VOC analyses?				P					
	a-VOC samples collected in the correct containers?		9							
17. Is the ap	propriate volume/weight or number of sample contained	ers collected?	9			1				
Field Labe	-		Yes	No						
18. Were fie	eld sample labels filled out with the minimum infor	mation:	1							
Sample ID	✓ Date/time collected ✓ Colle	ctors name						121		912212
Sample Pro			Yes	No	N/A			SCO Initials		Date
19. Does the	e COC or field labels indicate the samples were pre	served?			×					E013
	OCs preserved with 1:1 HCl?				P					
	/WET correctly preserved with H2SO4 or other?	one in the later of the later o			P					
	Iteration required and/or requested for dissolved me	etals?			P					
	tals preserved with 5N (1:1) HNO3? <u>e Sample Matrix</u>		Vac	O No	Z					
	e sample have more than one phase, i.e., multiphase	.2		No	N/A					
	bes the COC specify which phase(s) is to be analyze			1						
	881 886 SEC 10 B				P					
0	ct Laboratory Information		Yes	No		32-80 3 00°		news.		
26. Was a st	ubcontract laboratory specified by the client and if s	so who?		P		Subc	contract Lab	: NA		
Client Insti	<u>ruction</u>									
Bill Devo	on Energy, email phillip.smith@soudermiller.co	m								
										ろ

Report to:
Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220









5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Todd 15 Battery

Work Order: E010002

Job Number: 01058-0007

Received: 10/1/2020

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/6/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 10/6/20

Ashley Maxwell 201 S Halagueno St. Carlsbad, NM 88220



Project Name: Todd 15 Battery

Workorder: E010002

Date Received: 10/1/2020 12:00:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2020 12:00:00AM, under the Project Name: Todd 15 Battery.

The analytical test results summarized in this report with the Project Name: Todd 15 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Lopez

Laboratory Administrator Office: 505-632-1881

rlopez@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder	Miller Associates - Carlsbad	Project Name:	Todd 15 Battery	Reported:
201 S I	Ialagueno St.	Project Number:	01058-0007	Reporteu:
Carlsba	d NM, 88220	Project Manager:	Ashley Maxwell	10/06/20 11:40

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
T2-1'	E010002-01A Soil	09/29/20	10/01/20	Glass Jar, 4 oz.
T3-2'	E010002-02A Soil	09/29/20	10/01/20	Glass Jar, 4 oz.
T4-2'	E010002-03A Soil	09/29/20	10/01/20	Glass Jar, 4 oz.



Souder Miller Associates - Carl	Project Name:	Todd 15 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/6/2020 11:40:23AM

T2-1' E010002-01

		E010002-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
-	ma/lra		Analy	•	<u> </u>	Batch: 2040021
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anary			Batch: 2040021
Benzene	ND	0.0250	1	10/01/20	10/01/20	
Toluene	ND	0.0250	1	10/01/20	10/01/20	
Ethylbenzene	ND	0.0250	1	10/01/20	10/01/20	
o,m-Xylene	ND	0.0500	1	10/01/20	10/01/20	
o-Xylene	ND	0.0250	1	10/01/20	10/01/20	
Total Xylenes	ND	0.0250	1	10/01/20	10/01/20	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RS			Batch: 2040021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/20	10/01/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2040020
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/20	10/01/20	
Oil Range Organics (C28-C40)	ND	50.0	1	10/01/20	10/01/20	
Surrogate: n-Nonane		97.7 %	50-200	10/01/20	10/01/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: NE		Batch: 2040026
Chloride	44.0	20.0	1	10/01/20	10/01/20	



Souder Miller Associates - Carl	Project Name:	Todd 15 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/6/2020 11:40:23AM

T3-2' E010002-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RS		Batch: 2040021
Benzene	ND	0.0250	1	10/01/20	10/01/20	
Toluene	ND	0.0250	1	10/01/20	10/01/20	
Ethylbenzene	ND	0.0250	1	10/01/20	10/01/20	
p,m-Xylene	ND	0.0500	1	10/01/20	10/01/20	
o-Xylene	ND	0.0250	1	10/01/20	10/01/20	
Total Xylenes	ND	0.0250	1	10/01/20	10/01/20	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RS			Batch: 2040021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/20	10/01/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2040020
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/20	10/01/20	
Oil Range Organics (C28-C40)	ND	50.0	1	10/01/20	10/01/20	
Surrogate: n-Nonane		85.5 %	50-200	10/01/20	10/01/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: NE		Batch: 2040026
Chloride	51.2	20.0	1	10/01/20	10/01/20	



Souder Miller Associates - Carl	Project Name:	Todd 15 Battery	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/6/2020 11:40:23AM

T4-2'

E010002-03

		2010002 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	*	1 2002/200	Batch: 2040021
Benzene	ND	0.0250	1	10/01/20	10/01/20	
Toluene	ND	0.0250	1	10/01/20	10/01/20	
Ethylbenzene	ND	0.0250	1	10/01/20	10/01/20	
p,m-Xylene	ND	0.0500	1	10/01/20	10/01/20	
o-Xylene	ND	0.0250	1	10/01/20	10/01/20	
Total Xylenes	ND	0.0250	1	10/01/20	10/01/20	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RS			Batch: 2040021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/20	10/01/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	10/01/20	10/01/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2040020
Diesel Range Organics (C10-C28)	54.1	25.0	1	10/01/20	10/01/20	
Oil Range Organics (C28-C40)	ND	50.0	1	10/01/20	10/01/20	
Surrogate: n-Nonane		97.5 %	50-200	10/01/20	10/01/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: NE		Batch: 2040026
Chloride	219	20.0	1	10/01/20	10/01/20	



Todd 15 Battery Souder Miller Associates - Carlsbad Project Name: Reported: 201 S Halagueno St. Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Maxwell 10/6/2020 11:40:23AM **Volatile Organics by EPA 8021B** Analyst: RS Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Prepared: 10/01/20 Analyzed: 10/01/20 Blank (2040021-BLK1) ND 0.0250 ND 0.0250 Toluene ND Ethylbenzene 0.0250 ND 0.0500 p,m-Xylene ND o-Xylene 0.0250 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.00 8.00 100 70-130 Prepared: 10/01/20 Analyzed: 10/01/20 LCS (2040021-BS1) 5.43 5.00 109 70-130 0.0250 Benzene Toluene 5.51 0.0250 5.00 110 70-130 70-130 Ethylbenzene 5.49 0.0250 5.00 110 11.1 10.0 111 70-130 p,m-Xylene 0.0500 o-Xylene 5.55 0.0250 5.00 111 70-130 16.7 15.0 111 70-130 0.0250 Total Xylenes 104 70-130 8.00 Surrogate: 4-Bromochlorobenzene-PID 8.35

Matrix Spike (2040021-MS1)				Sou	rce: P0091	104-01 Prepared: 10/01/20 Analyzed: 10/01/20
Benzene	5.24	0.0250	5.00	ND	105	54-133
Toluene	5.30	0.0250	5.00	ND	106	61-130
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131
o-Xylene	5.35	0.0250	5.00	ND	107	63-131
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131
Surrogate: 4-Bromochlorobenzene-PID	8.34		8.00		104	70-130

Matrix Spike Dup (2040021-MSD1)		Source: P009104-01 Prepared: 10/01/20 Analyzed: 10/01/20						
Benzene	5.30	0.0250	5.00	ND	106	54-133	1.18	20
Toluene	5.33	0.0250	5.00	ND	107	61-130	0.491	20
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	0.552	20
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	0.439	20
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	0.306	20
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	0.395	20
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		103	70-130		

Souder Miller Associates - Carlsbad	Project Name:	Todd 15 Battery	Reported:
201 S Halagueno St.	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/6/2020 11:40:23AM

Carlsbad NM, 88220		Project Manage	r: As	hley Maxwel	11			10/6	5/2020 11:40:23AM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: RS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2040021-BLK1)						Pre	pared: 10/0	01/20 Analyze	ed: 10/01/20
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			
LCS (2040021-BS2)						Pre	pared: 10/0	01/20 Analyze	ed: 10/01/20
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			
Matrix Spike (2040021-MS2)				Sou	rce: P0091	1 04-01 Pre	pared: 10/0	01/20 Analyze	ed: 10/01/20
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			
Matrix Spike Dup (2040021-MSD2)				Sou	rce: P0091	1 04-01 Pre	pared: 10/0	01/20 Analyze	ed: 10/01/20
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	5.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			

Souder Miller Associates - Carlsbad	Project Name:	Todd 15 Battery	Reported:
201 S Halagueno St.	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/6/2020 11:40:23AM

Carisbau IVIVI, 66220		1 Toject Ivianage	i. As	sincy waxwe	11			107	0/2020 11:10:23/11
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2040020-BLK1)						Pre	epared: 10/0	01/20 Analyz	red: 10/01/20
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	50-200			
LCS (2040020-BS1)						Pre	epared: 10/0	01/20 Analyz	ed: 10/01/20
Diesel Range Organics (C10-C28)	435	25.0	500		87.0	38-132			
Gurrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike (2040020-MS1)				Sou	rce: E010	002-01 Pre	epared: 10/0	01/20 Analyz	ed: 10/01/20
Diesel Range Organics (C10-C28)	458	25.0	500	ND	91.7	38-132			
Surrogate: n-Nonane	37.5		50.0		75.0	50-200			
Matrix Spike Dup (2040020-MSD1)				Sou	rce: E010	002-01 Pre	epared: 10/0	01/20 Analyz	red: 10/01/20
Diesel Range Organics (C10-C28)	444	25.0	500	ND	88.9	38-132	3.12	20	
Surrogate: n-Nonane	35.5		50.0		70.9	50-200			

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager		Todd 15 Battery 01058-0007 Ashley Maxwell					Reported: 10/6/2020 11:40:23AM		
Anions by EPA 300.0/9056A									Analyst: NE		
	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2040026-BLK1)						Pre	pared: 10/0	1/20 Analyz	red: 10/01/20
Chloride	ND	20.0							
LCS (2040026-BS1)						Pre	pared: 10/0	1/20 Analyz	red: 10/01/20
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2040026-MS1)				Sour	rce: E0100	02-01 Pre	pared: 10/0	1/20 Analyz	red: 10/01/20
Chloride	300	20.0	250	44.0	102	80-120			
Matrix Spike Dup (2040026-MSD1)				Sour	rce: E0100	02-01 Pre	pared: 10/0	1/20 Analyz	red: 10/01/20
Chloride	301	20.0	250	44.0	103	80-120	0.363	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Souder Miller Associates - Carlsbad	Project Name:	Todd 15 Battery	
-	201 S Halagueno St.	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	10/06/20 11:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

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	l by OCD
Z	Received by OCD: 1/28/2021 3:03:50 PM
	21 3:03:
	50 PM

Page 13 of 14

Chain of Custody

		1
Page	of	1

Client: 51							Bill To		1		La	b Us	e On	ly		T.	AT	Е	PA Progra	m
Project: T	odd	15 Ba	attery			Attention:		16	Lab	WO#		- 4		Numb		1D	3D	RCRA	CWA	SDWA
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envirotech
Analytical Laboratory 5795 JS Highway 54, Familington, NM 87401
24 Hour Emergency Response Phone 800 | 362-1879

Pm (505) 632-1381 Fx (505) 632-1865

envirotech-inc.com labadmin@envirotech-inc.com

Printed: 10/1/2020 11:15:38AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	10/01/20	00:00		Work Order ID:	E010002
Phone:	(575) 200-5443	Date Logged In:	10/01/20	10:09		Logged In By:	Alexa Michaels
Email:		Due Date:	10/08/20	17:00 (5 day TAT)			
	f Custody (COC)						
	the sample ID match the COC?	1. d COC	Yes				
	the number of samples per sampling site location mate	en the COC	Yes				
	samples dropped off by client or carrier?	419	Yes Yes	Carrier: <u>Fe</u>	ed Ex		
	ne COC complete, i.e., signatures, dates/times, request all samples received within holding time?	ed analyses?					
5. Were	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes			Comment	s/Resolution
	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		No				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
		emperature. 4 c	<u> </u>				
	Container equeous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containers.	ers collected?	Yes				
Field La		ons conceica.	105				
	: field sample labels filled out with the minimum infor	mation:					
	Sample ID?		Yes				
I	Date/Time Collected?		Yes	L			
	Collectors name?		No				
	Preservation	10					
	the COC or field labels indicate the samples were pro	eserved?	No				
	sample(s) correctly preserved?	-4-1-0	NA				
	o filteration required and/or requested for dissolved me	ziais?	No				
_	ase Sample Matrix	_					
	the sample have more than one phase, i.e., multiphas		No				
27. If ye	s, does the COC specify which phase(s) is to be analyst	zed?	NA				
Subcont	ract Laboratory						
	samples required to get sent to a subcontract laborator		No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab:			
Client I	nstruction						

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Maxwell





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Todd 15 Battery

Work Order: E011056

Job Number: 01058-0007

Received: 11/18/2020

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/24/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 11/24/20

Ashley Maxwell 6488 7 Rivers Hwy Artesia, NM 88210



Project Name: Todd 15 Battery

Workorder: E011056

Date Received: 11/18/2020 10:00:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2020 10:00:00AM, under the Project Name: Todd 15 Battery.

The analytical test results summarized in this report with the Project Name: Todd 15 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	Donoutod.
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/20 08:21

Client Sample ID	Lab Sample ID Matrix	Sampled Recei	ved Container
CS1	E011056-01A Soil	11/16/20 11/18	/20 Glass Jar, 4 oz.
SW1	E011056-02A Soil	11/16/20 11/18	/20 Glass Jar, 4 oz.
SW2	E011056-03A Soil	11/16/20 11/18	/20 Glass Jar, 4 oz.
SW3	E011056-04A Soil	11/16/20 11/18	/20 Glass Jar, 4 oz.
SW4	E011056-05A Soil	11/16/20 11/18	/20 Glass Jar. 4 oz.



Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

CS1

		E011030-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2047016
Benzene	ND	0.0250	1	11/19/20	11/20/20	
Toluene	ND	0.0250	1	11/19/20	11/20/20	
Ethylbenzene	ND	0.0250	1	11/19/20	11/20/20	
p,m-Xylene	ND	0.0500	1	11/19/20	11/20/20	
o-Xylene	ND	0.0250	1	11/19/20	11/20/20	
Total Xylenes	ND	0.0250	1	11/19/20	11/20/20	
Surrogate: 4-Bromochlorobenzene-PID		116 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2047016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/20	11/20/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2047019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/20	11/19/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/19/20	11/19/20	
Surrogate: n-Nonane		84.2 %	50-200	11/19/20	11/19/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: NE		Batch: 2047017
Chloride	78.9	20.0	1	11/19/20	11/19/20	



Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

SW1

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2047016
Benzene	ND	0.0250	1	11/19/20	11/20/20	
Toluene	ND	0.0250	1	11/19/20	11/20/20	
Ethylbenzene	ND	0.0250	1	11/19/20	11/20/20	
p,m-Xylene	ND	0.0500	1	11/19/20	11/20/20	
o-Xylene	ND	0.0250	1	11/19/20	11/20/20	
Total Xylenes	ND	0.0250	1	11/19/20	11/20/20	
Surrogate: 4-Bromochlorobenzene-PID		115 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2047016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/20	11/20/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.3 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2047019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/20	11/19/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/19/20	11/19/20	
Surrogate: n-Nonane		99.1 %	50-200	11/19/20	11/19/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: NE		Batch: 2047017
Chloride	ND	20.0	1	11/19/20	11/19/20	

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

SW2

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2047016
Benzene	ND	0.0250	1	11/19/20	11/20/20	
Toluene	ND	0.0250	1	11/19/20	11/20/20	
Ethylbenzene	ND	0.0250	1	11/19/20	11/20/20	
p,m-Xylene	ND	0.0500	1	11/19/20	11/20/20	
o-Xylene	ND	0.0250	1	11/19/20	11/20/20	
Total Xylenes	ND	0.0250	1	11/19/20	11/20/20	
Surrogate: 4-Bromochlorobenzene-PID		117 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2047016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/20	11/20/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2047019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/20	11/19/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/19/20	11/19/20	
Surrogate: n-Nonane		103 %	50-200	11/19/20	11/19/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: NE		Batch: 2047017
Chloride	24.4	20.0	1	11/19/20	11/19/20	

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

SW3

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2047016
Benzene	ND	0.0250	1	11/19/20	11/20/20	
Toluene	ND	0.0250	1	11/19/20	11/20/20	
Ethylbenzene	ND	0.0250	1	11/19/20	11/20/20	
p,m-Xylene	ND	0.0500	1	11/19/20	11/20/20	
o-Xylene	ND	0.0250	1	11/19/20	11/20/20	
Total Xylenes	ND	0.0250	1	11/19/20	11/20/20	
Surrogate: 4-Bromochlorobenzene-PID		116 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2047016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/20	11/20/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.7 %	70-130	11/19/20	11/20/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2047019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/20	11/19/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/19/20	11/19/20	
Surrogate: n-Nonane		95.6 %	50-200	11/19/20	11/19/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: NE		Batch: 2047017
Chloride	ND	20.0	1	11/19/20	11/19/20	



Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

SW4

	ъ .:				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: RKS		Batch: 2047016
ND	0.0250	1	11/19/20	11/20/20	
ND	0.0250	1	11/19/20	11/20/20	
ND	0.0250	1	11/19/20	11/20/20	
ND	0.0500	1	11/19/20	11/20/20	
ND	0.0250	1	11/19/20	11/20/20	
ND	0.0250	1	11/19/20	11/20/20	
	117 %	70-130	11/19/20	11/20/20	
mg/kg	mg/kg	An	alyst: RKS		Batch: 2047016
ND	20.0	1	11/19/20	11/20/20	
	85.9 %	70-130	11/19/20	11/20/20	
mg/kg	mg/kg	An	alyst: JL		Batch: 2047019
ND	25.0	1	11/19/20	11/19/20	
ND	50.0	1	11/19/20	11/19/20	
	95.3 %	50-200	11/19/20	11/19/20	
mg/kg	mg/kg	Ana	alyst: NE		Batch: 2047017
	ND N	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 20.0250 ND 20.0 85.9 % mg/kg ND 25.0 ND 50.0 95.3 %	Result Limit Dilution mg/kg mg/kg An ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 ND 20.0 1 85.9 % 70-130 mg/kg mg/kg An ND 25.0 1 ND 50.0 1 95.3 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/19/20 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/19/20 mg/kg mg/kg Analyst: JL ND 25.0 1 11/19/20 ND 50.0 1 11/19/20 95.3 % 50-200 11/19/20	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/19/20 11/20/20 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/19/20 11/20/20 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/19/20 11/20/20 mg/kg mg/kg Analyst: JL ND 25.0 1 11/19/20 11/19/20 ND 50.0 1 11/19/20 11/19/20 ND 50.0 1 11/19/20 11/19/20



Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	Reported:		
6488 7 Rivers Hwy	Project Number:	01058-0007			
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM		
Volatila Ouganias by EDA 9021D					

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Artesia NM, 88210		Project Manager:	A	shley Maxwell				11/	24/2020 8:21:44AN
		Volatile O	rganics b	oy EPA 8021	В				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2047016-BLK1)						Pre	pared: 11/1	19/20 Analy:	zed: 11/19/20
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.79		8.00		110	70-130			
LCS (2047016-BS1)						Pre	pared: 11/1	19/20 Analy:	zed: 11/19/20
Benzene	5.30	0.0250	5.00		106	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
Ethylbenzene	5.30	0.0250	5.00		106	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
o-Xylene	5.34	0.0250	5.00		107	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.17		8.00		115	70-130			
Matrix Spike (2047016-MS1)				Sourc	e: E011	053-01 Pre	pared: 11/1	19/20 Analy:	zed: 11/19/20
Benzene	5.33	0.0250	5.00	ND	107	54-133			
Toluene	5.36	0.0250	5.00	ND	107	61-130			
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
p-Xylene	5.38	0.0250	5.00	ND	108	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.35		8.00	<u></u>	117	70-130			
Matrix Spike Dup (2047016-MSD1)				Sourc	e: E011	053-01 Pre	pared: 11/1	19/20 Analy	zed: 11/19/20
Benzene	5.27	0.0250	5.00	ND	105	54-133	1.04	20	
Toluene	5.26	0.0250	5.00	ND	105	61-130	1.88	20	
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133	1.81	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	1.75	20	
o-Xylene	5.28	0.0250	5.00	ND	106	63-131	1.91	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	1.80	20	
Surrogate: 4-Bromochlorobenzene-PID	9.33		8.00		117	70-130			



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

Artesia NM, 88210		Project Manage	r: As	shley Maxwel	11			11/2	24/2020 8:21:44AM
	Nor	halogenated	Organics	by EPA 80	15D - G	RO		ı	Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2047016-BLK1)							pared: 11/1	19/20 Analyz	
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			
LCS (2047016-BS2)						Pre	pared: 11/1	19/20 Analyz	ed: 11/19/20
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			
Matrix Spike (2047016-MS2)				Sou	rce: E011	053-01 Pre	pared: 11/1	19/20 Analyz	ed: 11/19/20
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			
Matrix Spike Dup (2047016-MSD2)				Sou	rce: E011	053-01 Pre	pared: 11/	19/20 Analyz	ed: 11/19/20
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.7	70-130	2.44	20	

8.00

85.0

70-130

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM

Artesia NM, 88210		Project Manage	r: As	shley Maxwel	11			11.	/24/2020 8:21:44AM
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2047019-BLK1)						Pre	pared: 11/1	9/20 Analy	zed: 11/19/20
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.3	50-200			
LCS (2047019-BS1)						Pre	pared: 11/1	9/20 Analy	zed: 11/19/20
Diesel Range Organics (C10-C28)	440	25.0	500		88.1	38-132			
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			
Matrix Spike (2047019-MS1)				Sou	rce: E011	053-01 Pre	pared: 11/1	9/20 Analy	zed: 11/19/20
Diesel Range Organics (C10-C28)	451	25.0	500	ND	90.3	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			
Matrix Spike Dup (2047019-MSD1)				Sou	rce: E011	053-01 Pre	pared: 11/1	9/20 Analy	zed: 11/19/20
Diesel Range Organics (C10-C28)	455	25.0	500	ND	90.9	38-132	0.723	20	
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			



Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Todd 15 Battery 01058-0007	Reported:			
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/2020 8:21:44AM			
Anions by EPA 300.0/9056A Analyst: NE						
Analyte		pike Source Rec	RPD			

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2047017-BLK1)						Pre	pared: 11/1	19/20 Analyze	ed: 11/19/20
Chloride	ND	20.0							
LCS (2047017-BS1)						Pre	pared: 11/1	19/20 Analyze	ed: 11/19/20
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2047017-MS1)				Sou	rce: E011(041-01 Pre	pared: 11/1	19/20 Analyze	ed: 11/19/20
Chloride	428	20.0	250	173	102	80-120			
Matrix Spike Dup (2047017-MSD1)				Sou	rce: E0110	041-01 Pre	pared: 11/1	19/20 Analyze	ed: 11/19/20
Chloride	437	20.0	250	173	106	80-120	2.25	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Todd 15 Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Maxwell	11/24/20 08:21

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

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Client:	Devo					В	ill To				La	ab Us	se On	У	A83.	T	AT	E	PA Progra	am
Project:	Todal	15	Batter	~	1 1.		ion		Lab	WO#					per	1D	3D	RCRA	CWA	SDWA
		Ashle	1 Mos	well		Address:			XE	011	S	مكا	010	58	oer CCC-					
Address:						City, State, Zip							Analy	is an	d Metho	d		===	St	ate
City, Stat	e, Zip					Phone:													NM CO	UT AZ
Phone:	1	(1)	· · ·			Email:		98	115	115		l X		- 1					X	
Email:	Ashle	y, Ph	1,44	Inn	1 .)y 8()4 8C	21	0	。	0.0		2			TX OK	
Report d	ue by:			<u> </u>					80	RO t	y 8021	826	601	e 30		Ž	¥			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC.		Rer	marks
12:00	1116	500	1 402	€5	1											X				
12:10		3		5 c.	, 1			2								X				
12:20				Su	12	6		3								X				
12:30				Su	13			4								X				
12:40		1		Su	ہے ر			5								X				
	10																			
Addition	al Instruc	tions:							•	•										
				his sample. I am aw for legal action. San		mpering with or intentionally mis	slabelling the sample loc	ation, date or											e day they are sa subsequent day	
Relinquishe	d by: (Sign	ature)	Date	7 /20 Time	: 11:45	Received by: (Signat	ure) 5 - 6	Date 11.17.2	202	Time	114	5	Rece	ved	on ice:		ab Us	e Only		
Relinquishe	ed by: (Signa	ature)	Date // -/	7-2020		Received by: Signat	ure	Date 11/19	lac	Time):C	00	T1			T2	4		T3	
Relinquishe	ed by: (Signa	ature)	Date	Time	•	Received by: (Signat	ure)	Date		Time			AVG	Tem	p°C_	+)	
Sample Matr	ix: S - Soil, S o	d - Solid, Sg -	Sludge, A - Ac	ueous, O - Other		_		Container	Туре	: g - g	lass.						ss. v -	VOA		
Note: Sample only to those	es are discard samples rec	ded 30 days a eived by the	fter results ar laboratory wi	e reported unless th this COC. The	other arr	angements are made. Hazar the laboratory is limited to	dous samples will be the amount paid for o	returned to cli	ient or	dispos	ed of a	t the c	lient ex	ense.	The repor	t for the	e analys	sis of the ab	ove samples i	s applicable



Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad I	Date Received:	11/18/20	10:00	Work (Order ID:	E011056
	Oate Logged In: Oue Date:	11/18/20 11/24/20	10:27 17:00 (4 day TAT)	Logge	d In By:	Alexa Michaels
Chain of Custody (COC)						
1. Does the sample ID match the COC?		Yes				
2. Does the number of samples per sampling site location match	the COC	Yes				
3. Were samples dropped off by client or carrier?		Yes	Carrier: <u>F</u>	<u>edEx</u>		
4. Was the COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes				
 Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion. 		Yes		<u>.</u>	<u>Commen</u>	ts/Resolution
Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT?		No		Email- Ashley, I	hil and	l Lynn
Sample Cooler		110		• ,		•
7. Was a sample cooler received?		Yes				
8. If yes, was cooler received in good condition?		Yes				
9. Was the sample(s) received intact, i.e., not broken?		Yes				
10. Were custody/security seals present?		No				
11. If yes, were custody/security seals intact?		NA NA				
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes				
13. If no visible ice, record the temperature. Actual sample to	mperature: 4°	<u>C</u>				
Sample Container						
14. Are aqueous VOC samples present?		No				
15. Are VOC samples collected in VOA Vials?		NA				
16. Is the head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a trip blank (TB) included for VOC analyses?		NA				
18. Are non-VOC samples collected in the correct containers?	11 4 . 40	Yes				
19. Is the appropriate volume/weight or number of sample container	rs collected?	Yes				
Field Label 20. Were field sample labels filled out with the minimum inforr Sample ID?	nation:	Yes				
Date/Time Collected?		No				
Collectors name?		No				
Sample Preservation						
21. Does the COC or field labels indicate the samples were pres	served?	No				
22. Are sample(s) correctly preserved?		NA				
24. Is lab filteration required and/or requested for dissolved me	tals?	No				
Multiphase Sample Matrix						
26. Does the sample have more than one phase, i.e., multiphase	?	No				
27. If yes, does the COC specify which phase(s) is to be analyze	ed?	NA				
Subcontract Laboratory						
28. Are samples required to get sent to a subcontract laboratory	?	No				
29. Was a subcontract laboratory specified by the client and if s		NA	Subcontract Lab	: NA		
Client Instruction						
Email- Ashley, Phil and Lynn						
Signature of client authorizing changes to the COC or sample dispo	sition			Date		- envirotech I

APPENDIX E PHOTO LOG

© 290°W (T) ® 32.306397, -103.763719 ±2 m ▲ 1022 m







tate of New Mexico

Incident ID	NRM2014568830
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.								
	1 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)							
□ Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Citle:EHS Professional							
OCD Only								
Received by: Robert Hamlet	Date: <u>6/7/2021</u>							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by: Robert Hamlet	Date: 6/7/2021							
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced							

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 16099

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	16099
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2014568830 TODD 15 - 7 BATTERY, thank you. This closure is approved.	6/7/2021