Responsible Party: Centennial Resource Production, Inc

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

Released to Imaging: 2/25/2021 9:30:45 AM

Incident ID	WRM 2014056966
District RP	
Facility ID	38633
Application ID	

Release Notification

Responsible Party

OGRID: 372165

Contact Name: Jamon Hohensee			Contact Telephone: 432-241-4283				
Contact email: Jamon.Hohensee@cdevinc.com			Incident #	t (assigned by OCL	D)		
Contact mai Texas 79705		: 500 W. Illinois A	ve, Suite 500, M	⁄Ii dl and,			
			Locatio	n of R	Release S	ource	
Latitude 32.3	33281		(NAD 83 in a	decimal de	Longitude grees to 5 deci	-103.41771 mal places)	
Site Name: D	Ouck Hunt 1	State Com CTB			Site Type:	Oil Production]
Date Release	Discovered	: 5/12/20			API#		
Unit Letter	Section	Township	Range		Cour	nty	
Ι	01	23S	34E	Lea			
Crude Oi	Materia I	Volume Release	ll that apply and attaced (bbls) .16bbls	ch calculat	ions or specific	Volume Reco	e volumes provided below) overed (bbls) 0
Material(s) Released (Select all that apply and attach calcular Crude Oil Volume Released (bbls) .16bbls				Volume Reco	overed (bbls) 0		
Produced	Water	(Volume Reco	
		Is the concentration of dissolved chloride produced water >10,000 mg/l?			in the	Yes N	No
Condensa	ate Volume Released (bbls)				Volume Reco	overed (bbls)	
☐ Natural G		Volume Released (Mcf)				Volume Reco	overed (Mcf)
Other (de	scribe)	Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)		
Cause of Rele On May 12, 2 from the flare equipment or	2020 there we releasing li	as a small fire (10) quids that ignited	'x30' area) that and fell to the gr	occurred ound. Th	on the pad on the liquids ex	of the Duck Hu	nt CTB located at 32.33281, -103.41771 nselves with no other damages to any



Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A fire occurred from the liquids exiting the flare.			
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? An email was sent to emnrd_ocd_district1spills@state.nm.us and Jim Griswold on 5-13-2020				
	Initial Response			
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury			
 ⊠ The source of the rele ⊠ The impacted area has	ase has been stopped. s been secured to protect human health and the environment.			
	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.			
All free liquids and re	coverable materials have been removed and managed appropriately. I above have not been undertaken, explain why:			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
	ensee Title: Sr. Environmental Analyst			
Signature: 50	<i>J-h</i> Date: 5/19/2020			
email:Jamon.hohensee(@cdevinc.com Telephone: 432-421-4283			
OCD Only				
Received by:	Date:			

Received by OCD: 9/15/2020 6:40:40 AM Received by OCD: 5/19/2020 12:08:51 PM



watercourse?

ordinary high-water mark)?

State of New Mexico Oil Conservation Division

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution,

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

Incident ID	
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(ft bgs)

☐ Yes ☐ No

☐ Yes ☐ No

Yes No

☐ Yes ☐ No

Site Assessment/Characterization

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

of charcity				
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?				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?				
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?				
Are the lateral extents of the release overlying an unstable area such as karst geology?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data				
Depth to water determination				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs				
Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps				
Topographic/Aerial maps Laboratory data including chain of custody				
Laboratory data including chain of custody	f			
withe site characterization report does not include completed efforts at remediation of the release, the report must include a p	ronosed remediation			
That also must be be a set of the	roposed remediation			

That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



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



Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	La licale J - J licale - J
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poir Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. Proposed schedule for remediation (note if remediation plan times)	nts .12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co.	ufirmed as part of any request for defensed of remailed
	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
I hereby certify that the information given above is true and comple rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local limits of the surface water.	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	
email:	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:



Incident ID	WRM 201405 6966
District RP	
Facility ID	38433
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 follows	ing items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re restore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name:	Title: St. Environmental Analyst	
Signature: 52-11.1	Date: 9-/5-20	
email: jamon. hohensee @ cdevinc. com	Telephone: 432-241-4283	
OCD Only		
Received by:	Date:	
osure approval by the OCD does not relieve the responsible party of compliance with any other federal, state, or local laws a source Approved by:	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.	
Soure Approved by:	Date:	
inted Name:	Title:	
* ,		



CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Duck Hunt 1 SC Central Battery
Lea County, New Mexico
Unit Letter "I", Section 1, Township 23 South, Range 34 East
Latitude 32.333609° North, Longitude 103.417761° West
NMOCD Reference # NRH2014056966

Prepared For:

Centennial Resource Development, Inc.

500 W. Illinois Avenue Suite 500 Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.

P.O. Box 62228 Midland, Texas 79711

September 2020

Wesley A. Desilets

Project Manager

Matthew Green, P.G. Senior Project Manager

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FIGURES

Figure 1 – Site Location Map

Figure 2 – Confirmation Soil Sample Location Map

TABLES

Table 1 - Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

APPENDICES

Appendix A – Photographic Documentation

Appendix B – Analytical Reports

Appendix C – Release Notification and Corrective Action (Form C-141)

Received by OCD: 9/15/2020 6:40:40 AM

INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Duck Hunt 1 SC Central Battery. The legal description of the Release Site is Unit Letter "I", Section 1, Township 23 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.333609° North and 103.417761° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Confirmation Soil Sample Location Map.

On May 12, 2020, Centennial discovered that a release had occurred due to a flare upset and small fire. Approximately seven (7) gallons of crude oil were released with zero (0) recovered, resulting in a net loss of approximately seven (7) gallons of crude oil. On May 19, 2020, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Duck Hunt 1 SC Central Battery Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 321924103245501 located approximately one (1) mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 321924103245501 should be encountered at approximately one hundred thirty-five (135) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Duck Hunt 1 SC Central Battery Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- BTEX 50 mg/Kg (ppm)
- TPH 100 mg/Kg (ppm)
- Chloride 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 11, 2020, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Excavated soil was stockpiled on site and remediated utilizing blending and aerating techniques.

On June 12, 2020, Etech, on behalf of Centennial, collected two (2) composite confirmation soil samples (Bottomhole-1 @ 1' and Bottomhole-2 @ 1') from the excavated area and one (1) composite soil sample from the remediated stockpiled soil. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary in the area represented as Bottomhole-2 @ 1' due to elevated chloride concentrations and it was determined that the impacted stockpiled soil would require disposal. Please reference Figure 2 for site details and soil sampling locations.

From June 25 through June 30, 2020, following additional excavation activities, one (1) composite confirmation soil sample (Bottomhole-2 @ 1.5') was collected from the further excavated area and four (4) composite soil samples (SSW-1 @ 1', NSW-1 @ 1', WSW-1 @ 1' and ESW-1 @ 1') were collected from the sidewalls of the excavated area. The samples were submitted to PBELAB for BTEX, TPH, and/or chloride analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVIES

On July 23 and July 24, 2020, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM for disposal.

On August 24 and August 25, 2020, the excavated area was backfilled with non-impacted like soil from a local source and the site was contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results, Centennial requests NMOCD and NMSLO grant Site Closure Status to the Duck Hunt 1 SC Central Battery incident.

LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1624 N. French Drive Hobbs, New Mexico 88210

Copy 2: Ryan Mann

New Mexico State Land Office

Remediation Specialist 2827 N. Dal Paso Suite 117

Hobbs, NM 88240

Copy 3: Jamon Hohensee

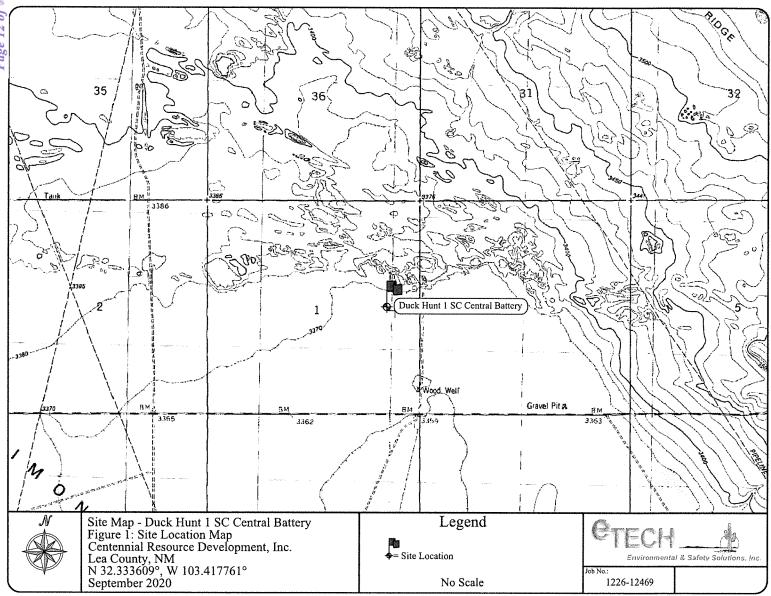
Centennial Resource Development, Inc.

500 W. Illinois Avenue Suite 500

Midland, TX 79701

Copy 4: Etech Environmental & Safety Solutions, Inc.

P.O. Box 62228 Midland, TX 79711



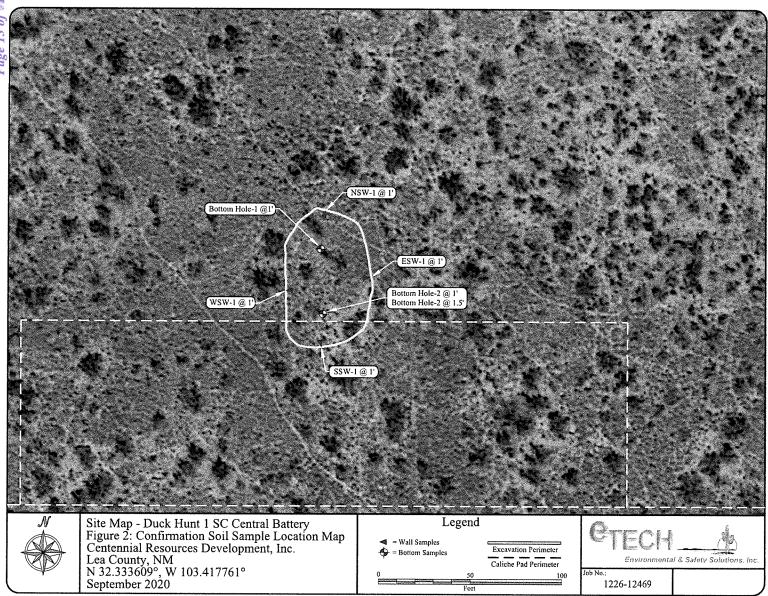


TABLE 1

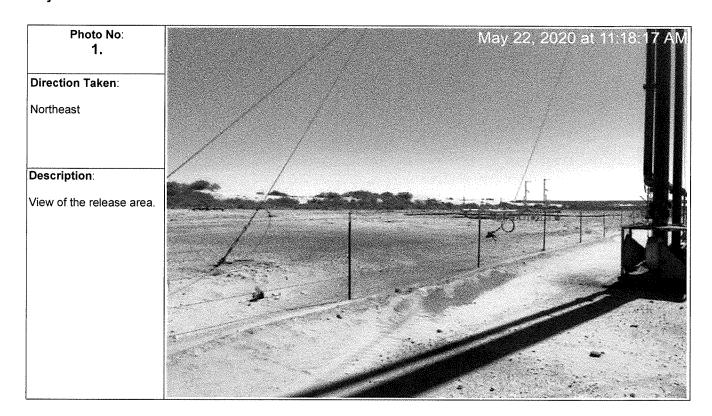
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

DUCK HUNT CENTRAL BATTERY RELEASE SITE

LEA COUNTY, NEW MEXICO

See all and a second a second and a second a					A	ll concentrations a	re reported in mg/K	g					
	SAMPLE			METHODS:	SW 846-8021	8			Ŋ	ETHOD: SW 801	5M		E 300.0
SAMPLE LOCATION	DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	0 - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₅ -C ₃₆	TOTAL TPH C_s - C_{ss}	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
						Bottom Hole S	ample Results						
Bottomhole-1 @ t'	6/12/2020	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	<0.00206	<0.00206	<25.8	<25.8	<25.8	<25.8	146
Bottomhole-2 @ 1'	6/12/2020	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	<0.00206	<0.00206	<25.8	<25.8	<25.8	<25.8	2,250
Bottomhole-2 @ 1.5'	6/26/2020	-		-	-	-	-	-	-	-	-	-	463
SSW-1 @ 1'	6/26/2020	<0.0204	0.0582	0.0663	0.208	0.0845	0,2925	0.41700	<25.5	52.5	<25.5	52.5	513
NSW-1 @ 1'	6/29/2020	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	<0.00204	<0.00204	<25.5	<25.5	<25,5	<25.5	149
WSW-1 @ 1'	6/30/2020	<0.00104	<0.00104	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<26.0	<26.0	<26.0	<26.0	474
ESW-1 @ 1'	6/30/2020	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<0,00202	<25.3	<25.3	<25.3	<25.3	230
						Stockpile Sa	nple Results						
Stockpile	6/12/2020	<0.00101	<0.00101	<0.00101	< 0.00202	< 0.00101	<0.00202	<0.00202	<25.3	307	66.4	373,4	2,020





Project Name: Duck Hunt 1 SC Central Battery **Project No:** 12469





Direction Taken:

Northeast

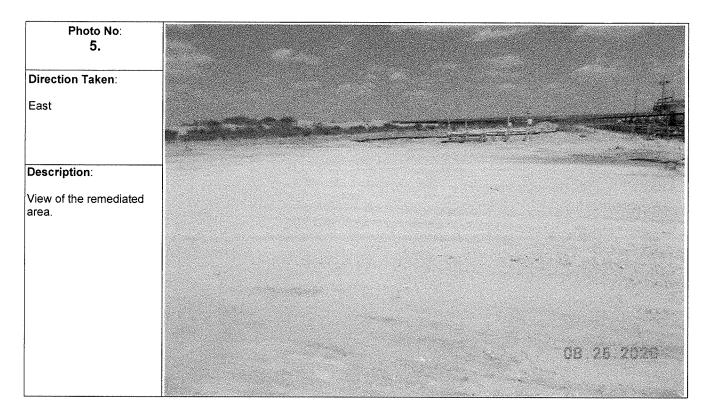
Description:

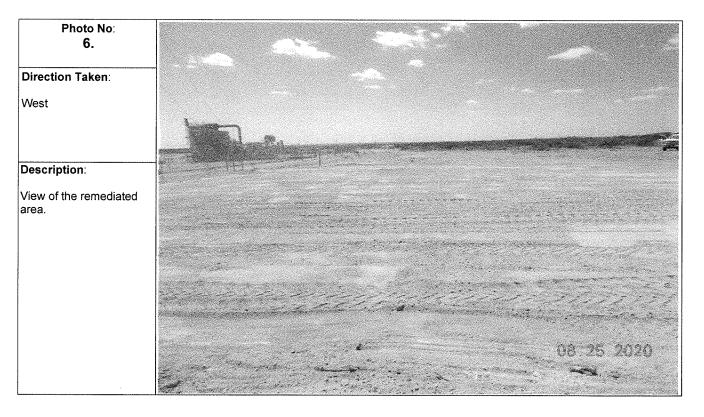
View of the excavated area.



Project Name: Duck Hunt 1 SC Central Battery

Project No: 12469





PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469 Location: Lea County, NM

Lab Order Number: 0F15010



NELAP/TCEQ # T104704516-17-8

Report Date: 06/22/20

Project: Duck Hunt Central Battery Release

Project Number: 12469
Project Manager: Matt Green

13000 West County Road 100 Odessa TX, 79765

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole-1 @ 1'	0F15010-01	Soil	06/12/20 14:30	06-15-2020 16:30
Bottomhole-2 @ 1'	0F15010-02	Soil	06/12/20 14:35	06-15-2020 16:30
Stockpile	0F15010-03	Soil	06/12/20 15:00	06-15-2020 16:30

Released to Imaging: 2/25/2021 9:30:45 AM

Fax: (432) 563-2213

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Bottomhole-1 @ 1' 0F15010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L. P .				
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	75-1.	25	P0F1601	06/16/20	06/16/20	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ls							
Chloride	146	1.03	mg/kg dry	1	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	v EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
C12-C28	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
C28-C35	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.6 %	70-1.	30	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		95.1 %	70-1.	30	P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Bottomhole-2 @ 1' 0F15010-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ital Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-1	25	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.7 %	75-1	25	P0F1601	06/16/20	06/16/20	EPA 8021B	
General Chemistry Parameters by EPA/	Standard Method	ls							
Chloride	2250	10.3	mg/kg dry	10	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
C12-C28	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
C28-C35	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.6 %	70-1.	30	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		95.8 %	70-1.	30	P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Stockpile 0F15010-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin I	Environmen	tal Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-12	25	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.9 %	75-12	?5	P0F1601	06/16/20	06/16/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ındard Metho	ds							
Chloride	2020	10.1	mg/kg dry	10	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M							
C6-C12	ND	25.3	mg/kg dry	l	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	307	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	66.4	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %	70-13	0	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		96.9 %	70-13	0	P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	373	25.3	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

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Project: Duck Hunt Central Battery Release

Project Number: 12469

13000 West County Road 100 Odessa TX, 79765

Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1601 - General Preparation (GC)									
Blank (P0F1601-BLK1)				Prepared &	: Analyzed:	06/16/20				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	u							
Xylene (o)	ND	0.00100	IT							
Surrogate: 4-Bromofluorobenzene	0.105		,,	0.120		87.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			
LCS (P0F1601-BS1)				Prepared &	Analyzed:	06/16/20				
Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	70-130			
Toluene	0.0941	0.00100	11	0.100		94.1	70-130			
Ethylbenzene	0.0978	0.00100	n	0.100		97.8	70-130			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	70-130			
Xylene (o)	0.103	0.00100	0	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.117		#	0.120		97.2	75-125			***************************************
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	75-125			
LCS Dup (P0F1601-BSD1)				Prepared &	Analyzed:	06/16/20				
Benzene	0.0952	0.00100	mg/kg wet	0.100	-	95.2	70-130	5.30	20	
Toluene	0.0996	0.00100	н	0.100		99.6	70-130	5.59	20	
Ethylbenzene	0.0962	0.00100	**	0.100		96.2	70-130	1.73	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	4.80	20	
Xylene (o)	0.109	0.00100	*	0.100		109	70-130	5.31	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125		.,	····
Surrogate: 4-Bromofluorobenzene	0.105		n	0.120		87.7	75-125			
Calibration Blank (P0F1601-CCB1)				Prepared &	Analyzed:	06/16/20				
Benzene	0.00		mg/kg wet	***************************************						
Toluene	0.500		n							
Ethylbenzene	0.00		н							
Xylene (p/m)	0.470		"							
Xylene (o)	0.00		ıı							
Surrogate: 4-Bromofluorobenzene	0.103		n n	0.120		86.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release

> Project Number: 12469 Project Manager: Matt Green

Fax: (432) 563-2213

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1601 - General Preparation (GC)									
Calibration Blank (P0F1601-CCB2)				Prepared &	: Analyzed:	06/16/20				
Benzene	0.00		mg/kg wet							
Toluene	0.540		0							
Ethylbenzene	0.410		"							
Xylene (p/m)	0.770		**							
Xylene (o)	0.00		0							
Surrogate: 4-Bromofluorobenzene	0.109		,,	0.120		90.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	75-125			
Calibration Blank (P0F1601-CCB3)				Prepared &	: Analyzed:	06/16/20				
Benzene	0.00		mg/kg wet							
Toluene	0.970		n							
Ethylbenzene	0.720		**							
Xylene (p/m)	1.98		"							
Xylene (o)	0.650		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			
Calibration Check (P0F1601-CCV1)				Prepared &	Analyzed:	06/16/20				
Benzene	0.0926	0.00100	mg/kg wet	0.100	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	92.6	80-120			
Toluene	0.0944	0.00100	11	0.100		94.4	80-120			
Ethylbenzene	0.0953	0.00100	н	0.100		95.3	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.9	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Calibration Check (P0F1601-CCV2)				Prepared &	Analyzed:	06/16/20				
Benzene	0.0895	0.00100	mg/kg wet	0.100		89.5	80-120			
Toluene	0.0919	0.00100	n	0.100		91.9	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.180	0.00200	11	0.200		90.2	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Fax: (432) 563-2213

Project Number: 12469 Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analysis	n .	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F1601 - General Preparation (GC)	****						-		
Calibration Check (P0F1601-CCV3)				Prepared &	& Analyzed:	06/16/20				
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.103	0.00100	н	0.100		103	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.204	0.00200		0.200		102	80-120			
Xylene (o)	0.104	0.00100	n	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Matrix Spike (P0F1601-MS1)	Sou	rce: 0F09003	-01	Prepared 8	& Analyzed:	06/16/20				
Benzene	0.0744	0.00106	mg/kg dry	0.106	ND	69.9	80-120			QM-05
Toluene	0.0985	0.00106	"	0.106	0.00496	87.9	80-120			-
Ethylbenzene	0.0981	0.00106	u u	0.106	0.00163	90.6	80-120			
Xylene (p/m)	0.188	0.00213	н	0.213	0.00506	85.9	80-120			
Xylene (o)	0.132	0.00106	"	0.106	0.00129	123	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.128		49.6	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.112		n	0.128		87.9	75-125			
Matrix Spike Dup (P0F1601-MSD1)	Sou	rce: 0F09003-	-01	Prepared &	& Analyzed:	06/16/20				
Benzene	0.0790	0.00106	mg/kg dry	0.106	ND	74.3	80-120	6.09	20	QM-05
Toluene	0.0929	0.00106	"	0.106	0.00496	82.7	80-120	6.17	20	•
Ethylbenzene	0.102	0.00106	n	0.106	0.00163	94.7	80-120	4.40	20	
Xylene (p/m)	0.185	0.00213	0	0.213	0.00506	84.6	80-120	1.48	20	
Xylene (o)	0.109	0.00106	n	0.106	0.00129	102	80-120	19.3	20	
Surrogate: 4-Bromofluorobenzene	0.177		"	0.128		138	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.118		**	0.128		92.5	75-125			

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13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469

Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1701 - *** DEFAULT PREP ***										
Blank (P0F1701-BLK1)				Prepared &	Analyzed:	06/17/20				
% Moisture	ND	0.1	%							
Duplicate (P0F1701-DUP1)	Sou	rce: 0F15011-	-04	Prepared &	: Analyzed:	06/17/20				
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P0F1701-DUP2)	Sou	rce: 0F16004-	-01	Prepared &	: Analyzed:	06/17/20				
% Moisture	1.0	0.1	9/0		1.0		***************************************	0.00	20	
Duplicate (P0F1701-DUP3)	Sou	rce: 0F16005-	-09	Prepared &	: Analyzed:	06/17/20				
% Moisture	ND	0,1	%		ND				20	
Batch P0F1706 - *** DEFAULT PREP ***										
LCS (P0F1706-BS1)				Prepared: 0	06/17/20 Ai	nalyzed: 06	/18/20			
Chloride	405	1.00	mg/kg wet			101	80-120			
LCS Dup (P0F1706-BSD1)				Prepared: 0	06/17/20 Aı	nalyzed: 06	/18/20			
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.650	20	
Calibration Blank (P0F1706-CCB2)				Prepared: 0	6/17/20 Aı	nalvzed: 06	/18/20			
Chloride	0.00		mg/kg wet							
Calibration Check (P0F1706-CCV1)				Prepared: 0	6/17/20 Aı	nalyzed: 06	/18/20			
Chloride	19.3		mg/kg	20.0		96.6	0-200			***************************************
Calibration Check (P0F1706-CCV2)				Prepared: 0	16/17/20 Aı	nalvzed: 06	/18/20			
Chloride	19.8		mg/kg	20.0		98.8	0-200	***************************************		

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Project: Duck Hunt Central Battery Release

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13000 West County Road 100

Project Number: 12469
Project Manager: Matt Green

Odessa TX, 79765

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Ratch	POF1706.	- *** DEE	AULT PREP ***	ř

Matrix Spike (P0F1706-MS1)	Source:	0F15009-15	Prepared: 06/17/20 Analyzed: 06/18/20				
Chloride	4340	29.4 mg/kg dry	2940	1570	93.9	80-120	
Matrix Spike (P0F1706-MS2)	Source:	0F16005-06	Prepared: (06/17/20 A	nalyzed: 0	6/18/20	
Chloride	590	1.01 mg/kg dry	505	163	84.5	80-120	

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch P0F1605 - TX 1005												
Blank (P0F1605-BLK1)		Prepared: 06/16/20 Analyzed: 06/17/20										
C6-C12	ND	25.0	mg/kg wet	•								
>C12-C28	ND	25.0	44									
>C28-C35	ND	25.0	н									
Surrogate: 1-Chlorooctane	97.6		n	100		97.6	70-130	***************************************				
Surrogate: o-Terphenyl	47.9		"	50.0		95.7	70-130					
LCS (P0F1605-BS1)												
C6-C12	979	25.0	mg/kg wet	1000		97.9	75-125					
>C12-C28	1180	25.0	H	1000		118	75-125					
Surrogate: 1-Chlorooctane	90.6		"	100		90.6	70-130					
Surrogate: o-Terphenyl	43.0		"	50.0		86.1	70-130					
LCS Dup (P0F1605-BSD1)				Prepared: 0	6/16/20 An	alyzed: 06	/17/20					
C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125	1.60	20			
>C12-C28	1110	25.0	**	1000		111	75-125	6.08	20			
Surrogate: 1-Chlorooctane	90.9		"	100		90.9	70-130	***************************************				
Surrogate: o-Terphenyl	43.5		"	50.0		87.I	70-130					
Calibration Blank (P0F1605-CCB1)				Prepared: 0	6/16/20 An	alyzed: 06	17/20					
C6-C12	12.0		mg/kg wet						.,			
>C12-C28	6.93		и									
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130					
Surrogate: o-Terphenyl	48.6		"	50.0		97.3	70-130					
Calibration Blank (P0F1605-CCB2)				Prepared: 0	6/16/20 An	alyzed: 06/	17/20					
C6-C12	14.1		mg/kg wet							*****		
>C12-C28	12.5		11									
Surrogate: 1-Chlorooctane	90.1		"	100		90.1	70-130					
Surrogate: o-Terphenyl	45.6		"	50.0		91.3	70-130					

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Lillit	Oms	Level	vesnit	/OKEC	Linns	KLD	Liiiit	ivotes
Batch P0F1605 - TX 1005										
Calibration Check (P0F1605-CCV1)				Prepared:	06/16/20 Ai	nalyzed: 06	/17/20			
C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	547	25.0	11	500		109	85-115			
Surrogate: 1-Chlorooctane	95.6		"	100		95.6	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.4	70-130			
Calibration Check (P0F1605-CCV2)				Prepared: (06/16/20 Aı	nalyzed: 06	/17/20			
C6-C12	454	25.0	mg/kg wet	500		90.9	85-115			
>C12-C28	486	25.0	#	500		97.2	85-115			
Surrogate: 1-Chlorooctane	89.7		"	100		89.7	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			
Calibration Check (P0F1605-CCV3)				Prepared: (06/16/20 Ar	nalyzed: 06	/17/20			
C6-C12	490	25.0	mg/kg wet	500		97.9	85-115			
>C12-C28	533	25.0	n	500		107	85-115			
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			
Matrix Spike (P0F1605-MS1)	Sourc	e: 0F15007	-08	Prepared: (06/16/20 Ar	nalyzed: 06	/19/20			
C6-C12	1230	126	mg/kg dry	1010	278	94.4	75-125			
>C12-C28	9120	126	**	1010	7800	131	75-125			
Surrogate: 1-Chlorooctane	92.2		"	101		91.3	70-130			
Surrogate: o-Terphenyl	46.8		"	50.5		92.6	70-130			
Matrix Spike Dup (P0F1605-MSD1)	Sourc	e: 0F15007	-08	Prepared: (Prepared: 06/16/20 Analyzed: 06/19/20					
C6-C12	1220	126	mg/kg dry	1010	278	93.7	75-125	0.728	20	
>C12-C28	9020	126		1010	7800	121	75-125	7.81	20	
Surrogate: 1-Chlorooctane	91.8		"	101		90.9	70-130			
Surrogate: o-Terphenyl	46.5		"	50.5		92.1	70-130			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Dun	Fact CCY C			
Report Approved By:	:SP:"		Date:	6/22/2020	

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release Fax: (432) 563-2213

13000 West County Road 100Project Number:12469Odessa TX, 79765Project Manager:Matt Green

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Page 15 of 15

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Dale	(4) Date	Z Daite										Stockpile	ble−2 @ 1'	Bottomhole-1 @ 1"	FIELD COOE			Patho	(432)230-3763	Odessa, Texas 79765	13000 W CR 100	Etech Environmental and Safety Solutions, Inc.	Matt Green	
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469
Location: Lea County, NM

Lab Order Number: 0G01004



NELAP/TCEQ # T104704516-17-8

Report Date: 07/09/20

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765 Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole -2 @ 1.5'	0G01004-01	Soil	06/26/20 14:30	06-30-2020 16:40
SSW-1 @ 1'	0G01004-02	Soil	06/26/20 14:35	06-30-2020 16:40

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Project Number: 12469 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

Bottomhole -2 @ 1.5' 0G01004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	Environme	ntal Lab, l	L. P .				
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	463	1.02	mg/kg dry	1	P0G0207	07/02/20	07/02/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

SSW-1 @ 1' 0G01004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	iian Basin F	Environmen	tal Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	0.0582	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	0.0663	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	0.208	0.0408	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	0.0845	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-12	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-12	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
General Chemistry Parameters by EF	A / Standard Method:	s							
Chloride	513	1.02	mg/kg dry	ì	P0G0207	07/02/20	07/02/20	EPA 300.0	
% Moisture	2.0	0.1	%	I	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 801	15M							
C6-C12	ND	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
>C12-C28	52.5	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-13	10	P0G0103	07/01/20	07/01/20	TPH 8015M	
Surrogate: o-Terphenyl		96.9 %	70-13	10	P0G0103	07/01/20	07/01/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	52.5	25.5	mg/kg dry	1	[CALC]	07/01/20	07/01/20	calc	

Fax: (432) 563-2213

Project: Duck Hunt Central Battery Release

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)									
Blank (P0G0105-BLK1)				Prepared &	: Analyzed:	07/01/20			100	
Benzene	ND	0.00100	mg/kg wet						***************************************	
Toluene	ND	0.00100	u							
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00200	11							
Xylene (o)	ND	0.00100	**							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120	···	94.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		n	0.120		89.6	75-125			
LCS (P0G0105-BS1)				Prepared &	Analyzed:	07/01/20				
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	70-130			
Toluene	0.0924	0.00100	n	0.100		92.4	70-130			
Ethylbenzene	0.0952	0.00100	п	0.100		95.2	70-130			
Xylene (p/m)	0.188	0.00200	11	0.200		93.8	70-130			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.7	75-125		***************************************	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
LCS Dup (P0G0105-BSD1)				Prepared &	Analyzed:	07/01/20				
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	6.53	20	
Toluene	0.100	0.00100	n	0.100		100	70-130	8.04	20	
Ethylbenzene	0.0981	0.00100	10	0.100		98.1	70-130	2.91	20	
Xylene (p/m)	0.204	0.00200	н	0.200		102	70-130	8.30	20	
Kylene (0)	0.109	0.00100	11	0.100		109	70-130	10.7	20	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Calibration Blank (P0G0105-CCB1)				Prepared &	Analyzed:	07/01/20				
Benzene	0.00		mg/kg wet							
Toluene	0.470		**							
Ethylbenzene	0.320									
Kylene (p/m)	0.640		U							
Kylene (o)	0.00		**							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.6	75-125			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469
Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P0G0105 - General Preparation (GC)		***************************************				
Calibration Blank (P0G0105-CCB2)				Prepared & Anal	yzed: 07/01/20		
Benzene	0.330		mg/kg wet				
Toluene	0.680		**				
Ethylbenzene	0.530		u				
Xylene (p/m)	3.19		li .				
Xylene (o)	0.800		"				
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120	93.8	75-125	
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120	91.4	75-125	
Calibration Blank (P0G0105-CCB3)				Prepared: 07/01/	20 Analyzed: 07	/02/20	
Benzene	0.00		mg/kg wet			V	
Toluene	0.940		er er				
Ethylbenzene	0.830		"				
Xylene (p/m)	1.70		**				
Xylene (o)	0.690						
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120	95.4	75-125	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120	88.7	75-125	
Calibration Check (P0G0105-CCV1)				Prepared & Anal	yzed: 07/01/20		
Benzene	0.0967	0.00100	mg/kg wet	0.100	96.7	80-120	
Toluene	0.0949	0.00100	n	0.100	94.9	80-120	
Ethylbenzene	0.0988	0.00100	D	0.100	98.8	80-120	
Xylene (p/m)	0.193	0.00200	п	0.200	96.4	80-120	
Xylene (o)	0.104	0.00100	n	0.100	104	80-120	
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120	91.8	75-125	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120	95.7	75-125	
Calibration Check (P0G0105-CCV2)				Prepared & Anal	yzed: 07/01/20		
Benzene	0.0981	0.00100	mg/kg wet	0.100	98.1	80-120	
Гоіцепе	0.105	0.00100	11	0.100	105	80-120	
Ethylbenzene	0.0969	0.00100	**	0.100	96.9	80-120	
Kylene (p/m)	0.208	0.00200	н	0.200	104	80-120	
Kylene (o)	0.0996	0.00100	**	0.100	99.6	80-120	
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120	86.4	75-125	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120	95.9	75-125	

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: Duck Hunt Central Battery Release

Project Number: 12469
Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)							***************************************			
Calibration Check (P0G0105-CCV3)				Prepared:	07/01/20 Ar	nalyzed: 07	/02/20			
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.100	0.00100	11	0.100		100	80-120			
Ethylbenzene	0.102	0.00100	u	0.100		102	80-120			
Xylene (p/m)	0.193	0.00200	o	0.200		96.6	80-120			
Xylene (o)	0.106	0.00100	n	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.5	75-125			
Matrix Spike (P0G0105-MS1)	Sou	rce: 0G01013	1-06	Prepared:	07/01/20 Аг	nalyzed: 07	/02/20			
Benzene	0.0887	0.00104	mg/kg dry	0.104	ND	85.1	80-120			***************************************
Toluene	0.0807	0.00104	н	0.104	0.00614	71.5	80-120			QM-10
Ethylbenzene	0.0840	0.00104	11	0.104	0.00539	75.5	80-120			QM-10
Xylene (p/m)	0.147	0.00208	п	0.208	0.0263	58.1	80-120			QM-10
Xylene (o)	0.0791	0.00104	"	0.104	0.0104	66.0	80-120			QM-16
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		#	0.125		87.I	75-125			
Matrix Spike Dup (P0G0105-MSD1)	Sou	rce: 0G01013	-06	Prepared: (07/01/20 Ar	alyzed: 07	/02/20			
Benzene	0.0876	0.00104	mg/kg dry	0.104	ND	84.1	80-120	1.25	20	
Toluene	0.0790	0.00104	**	0.104	0.00614	69.9	80-120	2.29	20	QM-10
Ethylbenzene	0.0830	0.00104	"	0.104	0.00539	74.5	80-120	1.29	20	QM-16
Xylene (p/m)	0.146	0.00208	"	0.208	0.0263	57.4	80-120	1.20	20	QM-10
Xylene (o)	0.0800	0.00104		0.104	0.0104	66.8	80-120	1.24	20	QM-10
Surrogate: 4-Bromofluorobenzene	0.108		n	0.125		86.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.4	75-125			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

Project Number: 12469

13000 West County Road 100 Odessa TX, 79765

Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0202 - *** DEFAULT PREP ***										
Blank (P0G0202-BLK1)				Prepared &	: Analyzed:	07/02/20				
% Moisture	ND	0.1	%							
Blank (P0G0202-BLK2)				Prepared &	Analyzed:	07/02/20				
% Moisture	ND	0.1	%							
Duplicate (P0G0202-DUP1)	Sou	rce: 0G01003-	01	Prepared &	Analyzed:	07/02/20				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0202-DUP2)	Sou	rce: 0G01003-	11	Prepared &	Analyzed:	07/02/20				
% Moisture	7.0	0.1	%	3	7.0			0.00	20	100 Prince - 170 Pale - Anna - 100 Prince - 170 Prince -
Duplicate (P0G0202-DUP3)	Sou	rce: 0G01004-	01	Prepared &	Analyzed:	07/02/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0G0202-DUP4)	Sou	rce: 0G01009-	05	Prepared &	Analyzed:	07/02/20				
% Moisture	10.0	0.1	%	*	13.0			26.1	20]
Duplicate (P0G0202-DUP5)	Sou	rce: 0G01011-	01	Prepared &	Analyzed:	07/02/20				
% Moisture	5.0	0.1	%		7.0			33.3	20	I
Duplicate (P0G0202-DUP6)	Sou	rce: 0G01011-	11	Prepared &	Analyzed:	07/02/20				
% Moisture	5.0	0.1	%		5.0			0.00	20	***************************************
Duplicate (P0G0202-DUP7)	Sou	rce: 0G01012-	11	Prepared &	Analyzed:	07/02/20				
% Moisture	4.0	0.1	%		3.0			28.6	20	I
Duplicate (P0G0202-DUP8)	Sou	rce: 0G01013-	06	Prepared &	Analyzed:	07/02/20				
% Moisture	6.0	0.1	%		4.0			40.0	20	I

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469 Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0202 - *** DEFAULT PREP ***					****					
Duplicate (P0G0202-DUP9)	Sou	rce: 0G01013	3-14	Prepared &	: Analyzed:	07/02/20				
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P0G0207 - *** DEFAULT PREP ***										
Blank (P0G0207-BLK1)				Prepared &	: Analyzed:	07/02/20				
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0207-BS1)				Prepared &	: Analyzed:	07/02/20				
Chloride	408	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0G0207-BSD1)				Prepared &	: Analyzed:	07/02/20				
Chloride	406	1.00	mg/kg wet	400		102	80-120	0.538	20	
Calibration Blank (P0G0207-CCB1)				Prepared &	: Analyzed:	07/02/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0G0207-CCV1)				Prepared &	: Analyzed:	07/02/20				
Chloride	19.0		mg/kg	20.0		95.0	0-200			
Calibration Check (P0G0207-CCV2)				Prepared &	Analyzed:	07/02/20				
Chloride	18.9		mg/kg	20.0		94.4	0-200			
Calibration Check (P0G0207-CCV3)				Prepared: 0	7/02/20 An	nalyzed: 07/	03/20			
Chloride	19.0	TO A 117 of The Annual Control of	mg/kg	20.0	***************************************	95.2	0-200			
Matrix Spike (P0G0207-MS1)	Sour	ce: 0G01003	i-17	Prepared &	Analyzed:	07/02/20				
Chloride	10000	28.1	mg/kg dry	2810	7280	97.5	80-120			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Project Number: 12469 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike (P0G0207-MS2)	Sourc	e: 0G01004	-02	Prepared &	Analyzed:	07/02/20			
Chloride	969	1.02	mg/kg dry	510	513	89.2	80-120		
Matrix Spike Dup (P0G0207-MSD1)	Sourc	e: 0G01003	-17	Prepared &	Analyzed:	07/02/20			
Chloride	10000	28.1	mg/kg dry	2810	7280	98.1	80-120	0.185	20
Matrix Spike Dup (P0G0207-MSD2)	Sourc	e: 0G01004	-02	Prepared &	: Analyzed:	07/02/20			
Chloride	978	1.02	mg/kg dry	510	513	91.0	80-120	0.911	20

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Odessa TX, 79765

Project Number: 12469

Fax: (432) 563-2213

Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0103 - TX 1005										
Blank (P0G0103-BLK1)				Prepared &	: Analyzed:	07/01/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	**							
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	42.3		"	50.0		84.6	70-130			
LCS (P0G0103-BS1)				Prepared &	Analyzed:	07/01/20				
C6-C12	771	25.0	mg/kg wet	1000		77.1	75-125			
>C12-C28	864	25.0	**	1000		86.4	75-125			
Surrogate: 1-Chlorooctane	109	***************************************	"	100	The second second	109	70-130			
Surrogate: o-Terphenyl	38.8		"	50.0		77.6	70-130			
LCS Dup (P0G0103-BSD1)				Prepared &	Analyzed:	07/01/20				
C6-C12	754	25.0	mg/kg wet	1000		75,4	75-125	2.21	20	
>C12-C28	845	25.0	"	1000		84.5	75-125	2.22	20	
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	37.2		n	50.0		74.5	70-130			
Calibration Blank (P0G0103-CCB1)				Prepared &	Analyzed:	07/01/20				
C6-C12	13.2		mg/kg wet							
>C12-C28	24.4		"							
Surrogate: 1-Chlorooctane	87.2		"	100		87.2	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			
Calibration Blank (P0G0103-CCB2)				Prepared &	Analyzed:	07/01/20				
C6-C12	6.29		mg/kg wet							
>C12-C28	15.7		"							
Surrogate: 1-Chlorooctane	94.4		"	100		94.4	70-130			***************************************
Surrogate: o-Terphenyl	43.0		"	50.0		86.0	70-130			

Permian Basin Environmental Lab, L.P.

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Project: Duck Hunt Central Battery Release

Project Number: 12469

13000 West County Road 100 Odessa TX, 79765 Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0103 - TX 1005										
Calibration Check (P0G0103-CCV1)				Prepared &	Analyzed:	: 07/01/20				
C6-C12	489	25.0	mg/kg wet	500		97.7	85-115			
>C12-C28	566	25.0	u	500		113	85-115			
Surrogate: 1-Chlorooctane	90.8		"	100		90.8	70-130			
Surrogate: o-Terphenyl	37.9		"	50.0		75.8	70-130			
Calibration Check (P0G0103-CCV2)				Prepared &	Analyzed:	07/01/20				
C6-C12	507	25.0	mg/kg wet	500		101	85-115			
C12-C28	569	25.0	п	500		114	85-115			
Surrogate: 1-Chlorooctane	92.3	***************************************	"	100	,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	92.3	70-130			
Surrogate: o-Terphenyl	39.0		,,	50.0		77.9	70-130			
Calibration Check (P0G0103-CCV3)				Prepared: 0	07/01/20 A	nalyzed: 07	/02/20			
C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	97.2		,,	100		97.2	70-130			
urrogate: o-Terphenyl	40.6		н	50.0		81.2	70-130			
Matrix Spike (P0G0103-MS1)	Source	e: 0G01004	1-02	Prepared: 0	07/01/20 A	nalyzed: 07	/02/20			
C6-C12	976	25.5	mg/kg dry	1020	ND	95.6	75-125			
C12-C28	1070	25.5	н	1020	52.5	99.4	75-125			
Gurrogate: 1-Chlorooctane	108		"	102		106	70-130			
Surrogate: o-Terphenyl	48.7		"	51.0		95.5	70-130			
Matrix Spike Dup (P0G0103-MSD1)	Source	e: 0G01004	1-02	Prepared: 0	7/01/20 A	nalyzed: 07	/02/20			
C6-C12	921	25.5	mg/kg dry	1020	ND	90.3	75-125	5.73	20	
·C12-C28	1030	25.5	11	1020	52.5	95.7	75-125	3.78	20	
urrogate: 1-Chlorooctane	125		"	102		123	70-130			~
urrogate: o-Terphenyl	46.7		"	51.0		91.6	70-130			

Permian Basin Environmental Lab, L.P.

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Released to Imaging: 2/25/2021 9:30:45 AM

Received by OCD: 9/15/2020 6:40:40 AM

Fax: (432) 563-2213 E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release

13000 West County Road 100 Project Number: 12469 Odessa TX, 79765 Project Manager: Matt Green

Notes and Definitions

ROI Received on Ice

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Burl	+ JUNION (
Report Approved By:			Date:	7/9/2020	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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LAB# (lab use only)

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469

Location: Lea County, NM

Lab Order Number: 0G08013



NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSW-1 @ 1'	0G08013-01	Soil	06/29/20 11:30	07-07-2020 16:34
WSW-1 @ 1'	0G08013-02	Soil	06/30/20 08:00	07-07-2020 16:34
ESW-1 @ 1'	0G08013-03	Soil	06/30/20 14:30	07-07-2020 16:34

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469 Project Manager: Matt Green

NSW-1 @ 1' 0G08013-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin I	Environmen	tal Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-12	?5	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.7 %	75-12	?5	P0G0908	07/09/20	07/09/20	EPA 8021B	
General Chemistry Parameters by EPA / Standard	dard Metho	ds							
Chloride	149	1.02	mg/kg dry	1	P0G1202	07/12/20	07/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EP	A Method 80)15M							
C6-C12	ND	25.5	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	i	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-13	10	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-13	0	P0G0904	07/09/20	07/10/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Released to Imaging: 2/25/2021 9:30:45 AM

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Released to Imaging: 2/25/2021 9:30:45 AM

E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469
Project Manager: Matt Green

WSW-1 @ 1' 0G08013-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ital Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	I	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	l	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	75-1	25	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-1	25	P0G0908	07/09/20	07/09/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Method	ls							
Chloride	474	1.04	mg/kg dry	1	P0G1202	07/12/20	07/12/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 80	15M							
C6-C12	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-1	30	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-1.	30	P0G0904	07/09/20	07/10/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765 Project Number: 12469
Project Manager: Matt Green

ESW-1 @ 1' 0G08013-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironmen	tal Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	i	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	l	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-1.	25	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.3 %	75-12	25	P0G0908	07/09/20	07/09/20	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ls							
Chloride	230	1.01	mg/kg dry	1	P0G1202	07/12/20	07/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	l	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1.	30	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-13	30	P0G0904	07/09/20	07/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

Project Number: 12469

13000 West County Road 100 Odessa TX, 79765

Project Manager: Matt Green

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	P agult	Reporting	T [:4-	Spike	Source	A/DEC	%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0908 - General Preparation (GC)									
Blank (P0G0908-BLK1)				Prepared &	Analyzed:	07/09/20				
Benzene	ND	0.00100	mg/kg wet			*****				THE STATE OF THE S
Toluene	ND	0.00100	11							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	u							
Xylene (o)	ND	0.00100	16							
Surrogate: 1,4-Difluorobenzene	0.113	***************************************	"	0.120		93.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
LCS (P0G0908-BS1)				Prepared &	Analyzed:	07/09/20				
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0982	0.00100	н	0.100		98.2	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.6	75-125			
LCS Dup (P0G0908-BSD1)				Prepared &	Analyzed:	07/09/20				
Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	5.83	20	
Toluene	0.105	0.00100	u	0.100		105	70-130	6.65	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	2.53	20	
Xylene (p/m)	0.228	0.00200	ıı	0.200		114	70-130	5.81	20	
Xylene (o)	0.112	0.00100	11	0.100		112	70-130	7.53	20	
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120	****	101	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Calibration Blank (P0G0908-CCB1)				Prepared &	Analyzed:	07/09/20				
Benzene	0.00		mg/kg wet							
Toluene	0.730		"							
Ethylbenzene	0.00		n							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		n							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100

Calibration Check (P0G0908-CCV1)

Odessa TX, 79765

Permian Basin Environmental Lab, L.P.

E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release

> Project Number: 12469 Project Manager: Matt Green

Spike

Source

Prepared & Analyzed: 07/09/20

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Reporting

Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0908 - General Preparation (C	GC)								
Calibration Blank (P0G0908-CCB2)			Prepared &	Analyzed:	07/09/20				
Benzene	0.00	mg/kg wet		***************************************					
Toluene	0.960	и							
Ethylbenzene	0.490	n							
Xylene (p/m)	1.23	n							
Xylene (o)	0.380	u							
Surrogate: 1,4-Difluorobenzene	0.116	· ·	0.120		96.3	75-125			***************************************
Surrogate: 4-Bromofluorobenzene	0.130	n,	0.120		109	75-125			
Calibration Blank (P0G0908-CCB3)			Prepared &	: Analyzed:	07/09/20				
Benzene	0.00	mg/kg wet						~*************************************	***************************************
Toluene	0.950	u							
Ethylbenzene	0.00	1t							
Xylene (p/m)	0.440	n							
Xylene (o)	0.00	11							
Surrogate: 1,4-Difluorobenzene	0.116	n	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.106	"	0.120		87.9	75-125			

Benzene	0.103	0.00100	mg/kg wet	0.100	103	80-120	
Toluene	0.0930	0.00100	**	0.100	93.0	80-120	
Ethylbenzene	0.0963	0.00100	"	0.100	96.3	80-120	
Xylene (p/m)	0.198	0.00200	n	0.200	99.2	80-120	
Xylene (o)	0.0989	0.00100	0	0.100	98.9	80-120	
Surrogate: 4-Bromofluorobenzene	0.115		*	0.120	95.6	75-125	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120	97.7	75-125	
Calibration Check (P0G0908-CCV2)				Prepared & An	nalyzed: 07/09/20		
Benzene	0.110	0.00100	mg/kg wet	0.100	110	80-120	
Toluene	0.102	0.00100	н	0.100	102	80-120	
Ethylbenzene	0.106	0.00100	**	0.100	106	80-120	
Xylene (p/m)	0.213	0.00200	n	0.200	106	80-120	

Xylene (o) 0.115 0.00100 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.120 0.120 100 75-125 Surrogate: 4-Bromofluorobenzene 0.127 0.120 106 75-125

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Fax: (432) 563-2213

RPD

%REC

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Project Number: 12469 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0908 - General Preparation (C	GC)									
Calibration Check (P0G0908-CCV3)				Prepared &	& Analyzed:	07/09/20				
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	0	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	11	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	·	0.200		102	80-120			
Xylene (o)	0.106	0.00100	U	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			***************************************
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Matrix Spike (P0G0908-MS1)	Sou	rce: 0G08013	3-01	Prepared &	& Analyzed:	07/09/20				
Benzene	0.0782	0.00102	mg/kg dry	0.102	ND	76.6	80-120			QM-0
Toluene	0.0753	0.00102	0	0.102	ND	73.8	80-120			QM-0
Ethylbenzene	0.0958	0.00102	11	0.102	ND	93.9	80-120			
Xylene (p/m)	0.164	0.00204	11	0.204	0.00119	79.8	80-120			QM-0
Xylene (o)	0.0781	0.00102	"	0.102	0.000510	76.0	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.132		"	0.122		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.8	75-125			
Matrix Spike Dup (P0G0908-MSD1)	Sou	rce: 0G08013	-01	Prepared &	k Analyzed:	07/09/20				
Benzene	0.0923	0.00102	mg/kg dry	0.102	ND	90.5	80-120	16.6	20	•
Toluene	0.0836	0.00102	"	0.102	ND	82.0	80-120	10.4	20	
Ethylbenzene	0.105	0.00102		0.102	ND	103	80-120	9.31	20	
Xylene (p/m)	0.179	0.00204	n	0.204	0.00119	87.0	80-120	8.72	20	
Xylene (o)	0.0880	0.00102	1)	0.102	0.000510	85.7	80-120	12.0	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.122		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.122		99.6	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Duck Hunt Central Battery Release

13000 West County Road 100 Odessa TX, 79765

Project Number: 12469 Project Manager: Matt Green Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0905 - *** DEFAULT PREP ***										
Blank (P0G0905-BLK1)				Prepared &	: Analyzed:	07/09/20				
% Moisture	ND	0.1	%					***************************************		
Blank (P0G0905-BLK2)				Prepared &	: Analyzed:	07/09/20				
% Moisture	ND	0.1	%							
Duplicate (P0G0905-DUP1)	Sou	rce: 0G08002-	03	Prepared &	: Analyzed:	07/09/20				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0905-DUP2)	Sou	rce: 0G08004-	05	Prepared &	Analyzed:	07/09/20				
% Moisture	15.0	0.1	%		14.0			6.90	20	
Duplicate (P0G0905-DUP3)	Sou	rce: 0G08007-	07	Prepared &	Analyzed:	07/09/20				
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0G0905-DUP4)	Sou	rce: 0G08008-	09	Prepared &	Analyzed:	07/09/20				
% Moisture	ND	0.1	%	•	ND				20	
Duplicate (P0G0905-DUP5)	Sou	rce: 0G08008-	24	Prepared &	: Analyzed:	07/09/20				
% Moisture	1.0	0.1	%		2.0			66.7	20	
Duplicate (P0G0905-DUP6)	Soui	rce: 0G08008-	34	Prepared &	Analyzed:	07/09/20				
% Moisture	ND	0,1	%		ND				20	
Duplicate (P0G0905-DUP7)	Soui	rce: 0G08009-	10	Prepared & Analyzed: 07/09/20						
% Moisture	13.0	0.1	%	r	13.0			0.00	20	
Duplicate (P0G0905-DUP8)	Sou	rce: 0G08009-	20	Prepared &	07/09/20					
% Moisture	9.0	0.1	%	- 11pa. 10 W	9.0			0.00	20	

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469 Project Manager: Matt Green Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0905 - *** DEFAULT PREP ***										
Duplicate (P0G0905-DUP9)	Sour	ce: 0G08009	-35	Prepared &	Analyzed:	07/09/20				***************************************
% Moisture	8.0	0.1	%	*	7.0			13.3	20	
Duplicate (P0G0905-DUPA)	Sour	ce: 0G08011	-03	Prepared &	: Analyzed:	07/09/20				
% Moisture	ND	0.1	%	***************************************	ND			***************************************	20	
Duplicate (P0G0905-DUPB)	Sour	ce: 0G08018	I-01	Prepared &	: Analyzed:	07/09/20				
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G0905-DUPC)	Sour	ce: 0G08022	-02	Prepared &	Analyzed:	07/09/20				
% Moisture	13.0	0.1	%		12.0			8.00	20	
Batch P0G1202 - *** DEFAULT PREP ***										
LCS (P0G1202-BS1)				Prepared &	: Analyzed:	07/12/20				
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0G1202-BSD1)				Prepared &	Analyzed:	07/12/20				
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.676	20	
Calibration Check (P0G1202-CCV1)				Prepared &	Analyzed:	07/12/20				
Chloride	19.4		mg/kg	20.0		96.8	0-200			
Calibration Check (P0G1202-CCV2)				Prepared: 0	7/12/20 Ar	nalyzed: 07.	/13/20			
Chloride	19.5		mg/kg	20.0		97.4	0-200		····	
Calibration Check (P0G1202-CCV3)				Prepared: 0	7/12/20 Ar	alyzed; 07	/13/20			
Chloride	19.7		mg/kg	20.0		98.5	0-200	***************************************		

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E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Fax: (432) 563-2213

Project Number: 12469

Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

1										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G1202 - *** DEFAULT PREP ***										
Matrix Spike (P0G1202-MS1)	Sour	ce: 0G08009	-40	Prepared 8	Analyzed:	07/12/20				
Chloride	3150	5.15	mg/kg dry	515	2610	106	80-120			
Matrix Spike (P0G1202-MS2)	Sour	ce: 0G08022	-02	Prepared: (07/12/20 A	nalyzed: 07	//14/20			
Chloride	587	1.14	mg/kg dry	568	8.45	102	80-120			
Matrix Spike Dup (P0G1202-MSD1)	Sour	ce: 0G08009	-40	Prepared 8	Analyzed:	07/12/20				
Chloride	3140	5.15	mg/kg dry	515	2610	102	80-120	0.559	20	
Matrix Spike Dup (P0G1202-MSD2)	Sour	ce: 0G08022	-02	Prepared: (07/12/20 A	nalyzed: 07	/14/20			
Chloride	554	1.14	mg/kg dry	568	8.45	96.1	80-120	5.73	20	

13000 West County Road 100

Odessa TX, 79765

Project: Duck Hunt Central Battery Release

Project Number: 12469 Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0904 - TX 1005				20101	700011	7000	Zames	III D	Limit	110103
Blank (P0G0904-BLK1)				Prepared: (07/09/20 An	nalvzed: 07	/10/20	***************************************		
C6-C12	ND	25.0	mg/kg wet	Tropared.	77705720 711	idiyadd. 07	710,20			
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.0	***************************************	"	100		99.0	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			
LCS (P0G0904-BS1)				Prepared: 0	07/09/20 An	nalyzed: 07	/10/20			
C6-C12	962	25.0	mg/kg wet	1000		96.2	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	120		"	100	*	120	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			
LCS Dup (P0G0904-BSD1)				Prepared: 0	07/09/20 An	nalyzed: 07	/10/20			
C6-C12	929	25.0	mg/kg wet	1000		92.9	75-125	3.47	20	
>C12-C28	1140	25.0	"	1000		114	75-125	4.91	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130		.,	
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			
Calibration Check (P0G0904-CCV1)				Prepared: 0	07/09/20 An	alyzed: 07/	/10/20			
C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	547	25.0	н	500		109	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			
Calibration Check (P0G0904-CCV2)				Prepared: 0	7/09/20 An	alyzed: 07/	10/20			
C6-C12	489	25.0	mg/kg wet	500		97.9	85-115			
>C12-C28	547	25.0	n	500		109	85-115			
Surrogate: 1-Chlorooctane	99.1		"	100	***************************************	99.1	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.

Project: Duck Hunt Central Battery Release

13000 West County Road 100

Project Number: 12469 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0904 - TX 1005	PULL TURNS THE THE TAX THE TAX TO									
Matrix Spike (P0G0904-MS1)	Sourc	e: 0G08014	4-01	Prepared: (07/09/20 A	nalyzed: 07	7/10/20			
C6-C12	1540	26.6	mg/kg dry	1060	21.8	142	75-125			QM-0:
>C12-C28	1760	26.6	**	1060	ND	165	75-125			QM-03
Surrogate: 1-Chlorooctane	109		"	106		102	70-130			
Surrogate: o-Terphenyl	57.3		"	53.2		108	70-130			
Matrix Spike Dup (P0G0904-MSD1)	Sourc	e: 0G08014	I-01	Prepared: ()7/09/20 A	nalyzed: 07	7/10/20			
C6-C12	1580	26.6	mg/kg dry	1060	21.8	146	75-125	2.51	20	QM-05
>C12-C28	1780	26.6	4	1060	ND	168	75-125	1.54	20	QM-05
Surrogate: 1-Chlorooctane	111		"	106		105	70-130			
Surrogate: o-Terphenyl	57.4		"	53.2		108	70-130			

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E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release Fax: (432) 563-2213

13000 West County Road 100Project Number:12469Odessa TX, 79765Project Manager:Matt Green

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

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

ecovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	1 Dien	t skiller C			
Report Approved By:			Date:	7/15/2020	

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. Project: Duck Hunt Central Battery Release Fax: (432) 563-2213

13000 West County Road 100Project Number:12469Odessa TX, 79765Project Manager:Matt Green

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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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

Released to Imaging: 2/25/2021 9:30:45 AM

Incident ID		
District RP		
Facility ID	38633	
Application ID		

Release Notification

Responsible Party

Responsible	Party: Cent	tennial Resource P	roduction, Inc	OGRID: 3	: 372165					
Contact Nan	ne: Jamon H	Hohensee			Contact Telephone: 432-241-4283					
Contact ema	il: Jamon.H	ohensee@cdevinc	com		Incident # (assigned by OCD)					
Contact mai Texas 79705	ling address	: 500 W. Illinois A	Ave, Suite 500, M	lidland,						
			Location	n of Re	elease S	Source				
Latitude 32.3	3281			1	Longitude -	e -103.41771				
			(NAD 83 in d	lecimal deg	rees to 5 decim	cimal places)				
Site Name: D	uck Hunt l	State Com CTB	***************************************	T	Site Type:	e: Oil Production				
Date Release	Discovered	: 5/12/20			API#					
Unit Letter	Section	T								
I I	01	Township 23S	Range 34E	Lea	Coun	Inty				
	01	230	J4L	Lea						
Surface Owner	r: 🛭 State	Federal T	ribal 🔲 Private ((Name: _						
			Nature an	d Volu	ıme of F	Release				
	Materia	l(s) Released (Select a	II that apply and attacl	h calculatio	ns or specific	ic justification for the volumes provided below)				
Crude Oil		Volume Release	ed (bbls) .16bbls		Volume Recovered (bbls) 0					
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)				
		Is the concentrate produced water	tion of dissolved o	chloride i	n the	☐ Yes ☐ No				
Condensa	te	Volume Release	d (bbls)			Volume Recovered (bbls)				
☐ Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide unit						Volume/Weight Recovered (provide units)				
Cause of Rele On May 12, 2 from the flare equipment or	020 there w releasing li	as a small fire (10)	'x30' area) that o and fell to the gro	occurred cound. The	on the pad o	of the Duck Hunt CTB located at 32.33281, -103.41771 xtinguished themselves with no other damages to any				

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? A fire occurred from the liquids exiting the flare.
⊠ Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
An email was sent to emr	ard ocd_district1spills@state.nm.us and Jim Griswold on 5-13-2020
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area has	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
D. 10 15 20 0 D (4) NO.	
nas begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are r	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investiga	ite and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
and/or regulations.	a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Jamon Hoh	rensee Title: Sr. Environmental Analyst
Signature: 50-	<i>U.h.</i>
Signature:	Д-h—— Date: 5/19/2020
email:Jamon.hohensee(@cdevinc.com Telephone: 432-421-4283
OCD Only	
Received by:	Date:

What is the shallowest depth to groundwater beneath the area affected by the release?

Incident ID	
District RP	
Facility ID	
Application ID	

(ft bgs)

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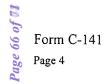
Site Assessment/Characterization

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

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 vert contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ical 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 wells Field data Data table of soil contaminant concentration data	5.
☐ 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 	

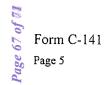
Received by OCD: 9/15/2020 6:40:40 AM

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.



Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:



Incident ID	
District RP	
Facility ID	
Application ID	

Released to Imaging: 2/25/2021 9:30:45 AM

Remediation Plan

Demodiation Plan Checklish Front of the C.H.	
Remediation Plan Checklist: Each of the following items must	be included in the plan.
Detailed description of proposed remediation technique	
Scaled sitemap with GPS coordinates showing delineation poi	nts
Estimated volume of material to be remediated	12(2)(1) 12 (1)
Closure criteria is to Table 1 specifications subject to 19.15.29 Proposed schedule for remediation (note if remediation plan ti	.12(C)(4) NMAC meline is more than 90 days OCD approval is required.
2 3 3 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	incline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around placenstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
The discontinuity of	
I hereby certify that the information given above is true and completiles and regulations all operators are required to report and/or file	ete to the best of my knowledge and understand that pursuant to OCD certain release notifications and perform corrective actions for releases
which may endanger public health or the environment. The accept	ance of a C-141 report by the OCD does not relieve the operator of
liability should their operations have failed to adequately investigated	te and remediate contamination that nose a threat to groundwater
surface water, human health or the environment. In addition, OCD	acceptance of a C-141 report does not relieve the operator of
responsibility for compliance with any other federal, state, or local	laws and/or regulations.
Printed Name:	Title:
Signature:	
email·	Televitore
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	Approval Denied Deferral Approved
Signature:	Date:

Incident ID	
District RP	
Facility ID	
Application ID	

Released to Imaging: 2/25/2021 9:30:45 AM

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 Checknist: Each of the following items must be included in the closure report.			
A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
Laboratory analyses of final sampling (Note: appropriate OD	Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
and regulations all operators are required to report and/or file certal may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially and tions that existed prior to the release or their final land use in		
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
·			
OCD Only			
Received by:	Date:		
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/o	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:	Date:		
Printed Name:	T'd		
	Title:		



Incident ID	WRM 201405 6966
District RP	
Facility ID	38433
Application ID	

Released to Imaging: 2/25/2021 9:30:45 AM

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 i	•			
A scaled site and sampling diagram as described in 19.15.29.1	I 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 ODG	C District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which			
may endanger public health or the environment. The acceptance of				
should their operations have failed to adequately investigate and rer	nediate contamination that pose a threat to groundwater, surface water,			
human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular				
restore, reclaim, and re-vegetate the impacted surface area to the co	nditions 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: Jamon Hohensec Title: St. Environmental Analyst				
Signature: 50-11-1	rinted Name: Jamon Hohenset Title: St. Environmental Analyst ignature: Jamon hohenset @ cdevinc. com Telephone: 432-241-4283			
email: jamon. hohensee & codevine. com	Telephone: 432-241-4283			
	·			
OCD Only				
Received by: Robert Hamlet	Date: 2/24/2021			
	of liability should their operations have failed to adequately investigate and			
terty of compliance with any other federal state or local laws and/	water, human health, or the environment nor does not relieve the responsible			
Section of compliance with any other reactal, state, or rocar laws and	or regulations.			
Sosure Approved by: Robert Hamlet Robert Hamlet	Date: 2/24/2021			
Dobort Hamlet				
minted Name: RODEIL Mailliel	Title: Environmental Specialist - Advanced			
75				

From: Hamlet, Robert, EMNRD
To: Jamon Hohensee

 Cc:
 Bratcher, Mike, EMNRD; Eads, Cristina, EMNRD; Hensley, Chad, EMNRD; spills@slo.state.nm.us

 Subject:
 Closure Approval - Centennial Resources - Duck Hunt 1 St Com CTB - (Incident #NRM2014056966)

Date: Thursday, February 25, 2021 9:13:00 AM

Attachments: Closure Approval - Centennial Resources - Duck Hunt 1 St Com CTB - (NRM2014056966).pdf

Jamon,

We have received your closure report and final C-141 for <u>Incident #NRM2014056966</u> Duck Hunt 1 St Com CTB, thank you. This closure is approved.

Please let me know if you have any further questions.

Regards,

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 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 10180

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	372165	10180	C-141

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2014056966 Duck Hunt 1 St Com CTB, thank you. This closure is approved.