

Electronic Correspondence

August 4, 2015

Kellie Jones State of New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240 kellie.jones@state.nm.us

Re: Assessment Corrective Action Plan

Memorial Resource Development, North Square Lake Unit #154

API No.: 30-015-04986

Legal: Unit F - Sec 34 - T16S - R31E - 2310 FNL, 1650 FWL - Eddy, NM

GPS: N 32.879576 W -103.860639

Depth to Groundwater: Approximately 200 feet below ground surface (bgs)

Release Type: Crude Oil

Contaminants of Concern (COC's)Threshold LevelsTotal Petroleum Hydrocarbons (TPH)5,000 mg/kgChlorides1,000 mg/kg

Dear Kellie:

Etech Environmental & Safety Solutions, Inc. (Etech) is pleased to submit the following corrective action plan on the aforementioned site for your review and approval.

Background

The release occurred due to a pin hole that developed in the associated 2" steel flow line. The release occurred in the native pastureland approximately 60 yards north of the associated production pad. The majority of the spill had collected in the pooled area measuring approximately 35 feet long by 25 feet wide on the east side of the release point. A copy of the C-141 is provided in Attachment A. An annotated aerial photograph showing the release area and TPH levels is provided In Attachment B. Photographs of the release area are provided in Attachment C.

Scope of Work

The scope of this project is for the remediation of a hydrocarbon impact. Completion of remediation will involve the following actions:

- 1. Placement of a one-call for utility location.
- 2. Excavation of impacted soils as far as practicable or until COC threshold levels less regulatory threshold than are reached.

- 3. Please note: The delineation data was collected from the lowest point of the impacted area where it was evident liquids had pooled, the delineation samples were collected from surface to approximately 6 inches below ground surface (bgs). The assessment map includes the delineation data and the sampling points (SP's) that will be used to develop a baseline for hydrocarbon concentrations. A copy of the analyses along with a summary table is provided in Attachment D.
- 4. Confirmation samples will be collected from the bottom and the sidewalls of the excavation and analyzed for the contaminants of concern (COC's) to confirm excavation goals have been reached.
- 5. If the results of analysis determine that the hydrocarbon levels are above regulatory threshold levels, additional excavation will be performed until the remediation objectives are met. In the event that the depth of the impact migrated vertically to an extent that further excavation activities are no longer practical; it will be likely to install a liner at the bottom of the excavation before backfilling.
- 6. The impacted soil will be excavated and hauled to Lea Land for disposal.
- 7. Once remediation levels are reached, backfilling of the excavated area(s) will be achieved by placing clean fill similar to the existing material from the site, properly contoured, and seeded to match the region using the recommended mixture from the BLM.

Notifications and Special Conditions

- 1. The State Land Office (SLO) and OCD will be notified prior to the commencement of on-site operations.
- 2. The OCD will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
- 3. The SLO and OCD will be notified when the site is closed for final inspection prior to seeding.
- 4. A final report documenting the closure of the site will be submitted along with a final C-141 to SLO and OCD.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Brandon Wilson or myself at (432) 563-2200 (office) or via email at fred@etechenv.com, or brandon@etechenv.com.

Respectfully:

Fred Holmes

Principal Environmental Professional

Cc: dvstrang@slo.state.nm.us

Attachment A Initial C-141

<u>District I</u> 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

Form C-141

Revised August 8, 2011

						OPERA	TOR	☐ Initia	al Report		Final Report
		emorial Prod			(Contact He	ather Dolphin				•
		treet Houstor					No. 832-797-13	34			
Facility Nar	ne North S	Square Lake	<u>Unit #</u> 15	4		Facility Typ	e Well				
Surface Ow	ner			Mineral O	wner			API No	. 30-015-0	4986	
				LOCA	TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		
F	34	16S	31E						Eddy		
		!	La	titude_ 32°52' 46	6"N	_ Longitud	e <u>-103° 51' 38</u>	!"W_	I		
				NAT	URE	OF RELI	EASE				
Type of Relea							Release 7bbls	Volume I	Recovered	2bbls	***************************************
		eel Flow Line	9					e 4/29/15 Date and	Hour of Dis	covery	11:35
Was Immedia	ite Notice C					If YES, To	Whom?				
		X	Yes _	No 🗌 Not Re	equired	BLM					
By Whom? F							lour 4/30/15				
Was a Water	course Reac		runs-			If YES, Vo	lume Impacting t	he Watercourse.			
			Yes X	No		n/a					
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	:		1					
n/a											
II/a											
	flow line go				ry devel	loped a pin	nole approximat	ely 60 yards off l	ocation and	d out ir	the field. It
Spilica appro	A. 7 DDIS 01	Oii.									
Describe Are 2bbls were r	a Affected a ecovered l	and Cleanup A	Action Tak k. A clam	en.* p was put on th	e pipe t	o cover the	hole. Will follow	the BLM proced	ure of scra	pping ι	ıp
contaminate	d ground.							·		•	
			±								
regulations al public health should their or or the environ	l operators or the envir perations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptance adequately OCD accep	d/or file certain re te of a C-141 repo investigate and re	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	inderstand that pur- ctive actions for rel eport" does not rel eat to ground wate responsibility for c	eases which ieve the ope r, surface w	may enerator of ater. hu	ndanger f liability man health
ş 1		<i>y</i>					OIL CON	SERVATION	DIVISIO	<u>NC</u>	
Signature:	1	CI	5		7						-
Printed Name	: Heather	Dolphin		Environmental S	pecialist:						
Title: Sr. Re	gulatory S	Specialist				Approval Da	te:	Expiration	Date:		
E-mail Addre	ss: heathe	er.dolphin@m	nemorialr	d.com		Conditions o	f Approval:		Attached	ı [7	
Date: 4/30/1	5		Phone:	832-797-1334					Allacited	. L	
* Attach Addit	ional Shee	ets If Necess	arv						1		

Attachment B Annotated Aerial Imagery



Delineation &

Lease Name: NSLKU #154

Date Assessed: May 19, 2015



Project No.:

416-6200-000

(mg/kg)

32.1

4290

TPH

(mg/kg)

18700

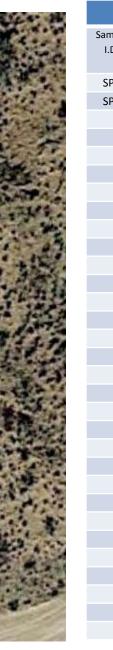
14800

Assessment Results Depth Chlorides

(ft.)

6"

6"



Attachment C Photograph Log

Project Name: NSLU #154 Photograph Log
Project No:416-6200-000 Date Taken: May 19, 2015

Photo No:

Direction Taken: North

Description: View of the impacted area.



Photo No: 2.

Direction Taken: Northwest

Description: View of the impacted area.



Attachment D Analytical Results

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Kit Prichard
E Tech Environmental & Safety Solutions, Inc.
12800 W Hwy 80 E
Odessa, TX 79765

Project: NSCU #154

Project Number: 416-6200-000

Location: Memorial

Lab Order Number: 5E22006



NELAP/TCEQ # T104704156-13-3

Report Date: 06/08/15

12800 W Hwy 80 EProject Number: 416-6200-000Odessa TX, 79765Project Manager: Kit Prichard

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample Point 1	5E22006-01	Soil	05/19/15 15:00	05-22-2015 13:15
Sample Point 2	5E22006-03	Soil	05/19/15 15:15	05-22-2015 13:15

12800 W Hwy 80 E Project Number: 416-6200-000 Odessa TX, 79765 Project Manager: Kit Prichard

Sample Point 1 5E22006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	1.18	0.0233	mg/kg dry	20	P5E2704	05/26/15	05/26/15	EPA 8021B	
Toluene	0.195	0.0465	mg/kg dry	20	P5E2704	05/26/15	05/26/15	EPA 8021B	
Ethylbenzene	0.0500	0.0233	mg/kg dry	20	P5E2704	05/26/15	05/26/15	EPA 8021B	
Xylene (p/m)	0.0942	0.0465	mg/kg dry	20	P5E2704	05/26/15	05/26/15	EPA 8021B	
Xylene (o)	0.134	0.0233	mg/kg dry	20	P5E2704	05/26/15	05/26/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-1	25	P5E2704	05/26/15	05/26/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.0 %	75-1	25	P5E2704	05/26/15	05/26/15	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	32.1	1.16	mg/kg dry	1	P5F0403	06/04/15	06/04/15	EPA 300.0	
% Moisture	14.0	0.1	%	1	P5E2601	05/26/15	05/26/15	% calculation	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	15M							
C6-C12	1450	581	mg/kg dry	20	P5E2801	05/22/15	05/23/15	TPH 8015M	
>C12-C28	15400	581	mg/kg dry	20	P5E2801	05/22/15	05/23/15	TPH 8015M	
>C28-C35	1890	581	mg/kg dry	20	P5E2801	05/22/15	05/23/15	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1	30	P5E2801	05/22/15	05/23/15	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-1	30	P5E2801	05/22/15	05/23/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	18700	581	mg/kg dry	20	[CALC]	05/22/15	05/23/15	calc	

12800 W Hwy 80 E Project Number: 416-6200-000 Odessa TX, 79765 Project Manager: Kit Prichard

Sample Point 2 5E22006-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	0.0316	0.0241	mg/kg dry	20	P5E2705	05/27/15	05/28/15	EPA 8021B	
Toluene	0.979	0.0482	mg/kg dry	20	P5E2705	05/27/15	05/28/15	EPA 8021B	
Ethylbenzene	3.14	0.0241	mg/kg dry	20	P5E2705	05/27/15	05/28/15	EPA 8021B	
Xylene (p/m)	4.71	0.0482	mg/kg dry	20	P5E2705	05/27/15	05/28/15	EPA 8021B	
Xylene (o)	2.61	0.0241	mg/kg dry	20	P5E2705	05/27/15	05/28/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.1 %	75-1	25	P5E2705	05/27/15	05/28/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-1	25	P5E2705	05/27/15	05/28/15	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls							
Chloride	4290	30.1	mg/kg dry	25	P5F0403	06/04/15	06/05/15	EPA 300.0	
% Moisture	17.0	0.1	%	1	P5E2601	05/26/15	05/26/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	1380	301	mg/kg dry	10	P5E2801	05/22/15	05/23/15	TPH 8015M	
>C12-C28	12300	301	mg/kg dry	10	P5E2801	05/22/15	05/23/15	TPH 8015M	
>C28-C35	1090	301	mg/kg dry	10	P5E2801	05/22/15	05/23/15	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-1	30	P5E2801	05/22/15	05/23/15	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-1	30	P5E2801	05/22/15	05/23/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	14800	301	mg/kg dry	10	[CALC]	05/22/15	05/23/15	calc	

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Organics by GC - 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 P5E2704 - TX 1005										
Blank (P5E2704-BLK1)				Prepared &	Analyzed:	05/26/15				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0472		"	0.0500		94.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0656		"	0.0500		131	75-125			S-GO
LCS (P5E2704-BS1)				Prepared &	Analyzed:	05/26/15				
Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.107	0.00100	"	0.100		107	70-130			
Surrogate: 1,4-Difluorobenzene	0.0538		"	0.0500		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0636		"	0.0500		127	75-125			S-GO
LCS Dup (P5E2704-BSD1)				Prepared &	Analyzed:	05/26/15				
Benzene	0.0850	0.00100	mg/kg wet	0.100		85.0	70-130	4.50	20	
Toluene	0.0971	0.00200	"	0.100		97.1	70-130	5.19	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	6.44	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	70-130	4.65	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	4.60	20	
Surrogate: 4-Bromofluorobenzene	0.0643		"	0.0500		129	75-125			S-GO
Surrogate: 1,4-Difluorobenzene	0.0542		"	0.0500		108	75-125			
Batch P5E2705 - TX 1005										
Blank (P5E2705-BLK1)				Prepared &	Analyzed:	05/27/15				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0581		"	0.0500		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.0542		"	0.0500		108	75-125			

E Tech Environmental & Safety Solutions, Inc. Project: NSCU #154

12800 W Hwy 80 E Project Number: 416-6200-000 Odessa TX, 79765 Project Manager: Kit Prichard

Fax: (432) 563-2213

Organics by GC - 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 P5E2705 - TX 1005										
LCS (P5E2705-BS1)				Prepared &	Analyzed:	05/27/15				
Benzene	0.0938	0.00100	mg/kg wet	0.100		93.8	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.0618		"	0.0500		124	75-125			
Surrogate: 4-Bromofluorobenzene	0.0558		"	0.0500		112	75-125			
LCS Dup (P5E2705-BSD1)				Prepared &	Analyzed:	05/27/15				
Benzene	0.0884	0.00100	mg/kg wet	0.100		88.4	70-130	5.94	20	
Toluene	0.102	0.00200	"	0.100		102	70-130	1.74	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130	2.50	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	3.53	20	
Xylene (o)	0.0980	0.00100	"	0.100		98.0	70-130	5.50	20	
Surrogate: 1,4-Difluorobenzene	0.0656		"	0.0500		131	75-125			S-G
Surrogate: 4-Bromofluorobenzene	0.0579		"	0.0500		116	75-125			

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Odessa TX, 79765 Project Manager: Kit Prichard

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
Batch P5E2601 - *** DEFAULT PREP ***										
Blank (P5E2601-BLK1)				Prepared &	Analyzed:	05/26/15				
% Moisture	ND	0.1	%							
Duplicate (P5E2601-DUP1)	Sou	rce: 5E21006	-01	Prepared &	Analyzed:	05/26/15				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Batch P5F0403 - *** DEFAULT PREP ***										
Blank (P5F0403-BLK1)				Prepared &	Analyzed:	06/04/15				
Chloride	ND	1.00	mg/kg wet							
LCS (P5F0403-BS1)				Prepared &	Analyzed:	06/04/15				
Chloride	104	1.00	mg/kg wet	100		104	80-120			
LCS Dup (P5F0403-BSD1)				Prepared &	Analyzed:	06/04/15				
Chloride	98.0	1.00	mg/kg wet	100		98.0	80-120	5.97	20	
Duplicate (P5F0403-DUP1)	104 1.00 mg/kg wet 98.0 1.00 mg/kg wet Source: 5F03007-01			Prepared &	Analyzed:	06/04/15				
Chloride	4270	29.4	mg/kg dry		4190			1.84	20	
Duplicate (P5F0403-DUP2)	Sou	rce: 5E22006	-03	Prepared: (06/04/15 A	nalyzed: 06	/05/15			
Chloride	3880	30.1	mg/kg dry		4290			10.0	20	

12800 W Hwy 80 E Project Number: 416-6200-000
Odessa TX, 79765 Project Manager: Kit Prichard

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 P5E2801 - TX 1005										
Blank (P5E2801-BLK1)				Prepared &	Analyzed:	05/22/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.3		"	100		80.3	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.1	70-130			
LCS (P5E2801-BS1)				Prepared &	: Analyzed:	05/22/15				
C6-C12	872	25.0	mg/kg wet	1000	<u> </u>	87.2	75-125			
>C12-C28	938	25.0	"	1000		93.8	75-125			
Surrogate: 1-Chlorooctane	92.3		"	100		92.3	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.5	70-130			
LCS Dup (P5E2801-BSD1)				Prepared &	: Analyzed:	05/22/15				
C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	6.75	20	
>C12-C28	821	25.0	"	1000		82.1	75-125	13.2	20	
Surrogate: 1-Chlorooctane	96.1		"	100		96.1	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			
Duplicate (P5E2801-DUP1)	Sou	rce: 5E22002	2-04	Prepared: (05/22/15 A	nalyzed: 05	/23/15			
C6-C12	21.8	28.1	mg/kg dry		18.9			14.3	20	
>C12-C28	124	28.1	"		91.2			30.2	20	R
Surrogate: 1-Chlorooctane	90.7		"	112		80.7	70-130			
Surrogate: o-Terphenyl	55.8		"	56.2		99.4	70-130			

12800 W Hwy 80 E Project Number: 416-6200-000 Odessa TX, 79765 Project Manager: Kit Prichard

Notes and Definitions

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

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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

	Burnon		
Report Approved By:		Date:	6/8/2015

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.

	Relinquished by:	Relinquished b	Sulla by	8									9		LAB#(lab use only)	CXCFX #	(lab use only)	Sa	Tel	Cit	co	င္ပ	Pro	песп
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	Date	Date	521.15	-									P		m		7		432-563-2200	Midland, Texas 79708	x 8469	Etech Environmental & Safety Solutions, Inc.	r pholopic	ental &
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