

Electronic Correspondence

August 17, 2017

Ms. Olivia Yu Environmental Specialist, District I Oil Conservation Division, EMNRD Olivia.yu@state.nm.us

Re: Closure Report- 4437 SOGO III, SFPRR A Legal: Unit K, Sec 27, T9S R37E, Lea County, NM Latitude/Longitude: 33.501784/ -103.145577 Etech Proj. Number: 584-7504-000 Depth to Groundwater: 150-165 feet - Chevron/Texaco Lea County Depth to Groundwater Map Release Type: Produced Water Contaminants of Concern (COC's) Chlorides Threshold Levels 1000 mg/kg

Dear Olivia:

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

Background

On September 7, 2016, lightning struck tanks located at the SFPRR lease causing a release of fluids inside the location's soil containment. Approximately 630 barrels (bbl.) of produced water and oil were released into the containment. Approximately 460 bbl. of fluid were recovered and disposed. Tank bottoms and solids were jetted using a hot oiler and taken to disposal.

An initial sampling was conducted of the impacted area on September 13, 2016 by SOGO employees. Samples were collected from five (5) locations of the impacted area utilizing a backhoe. The samples were analyzed for TPH, BTEX and Chlorides. The results of analyses determined that TPH and BTEX values were below reporting limits. Chloride levels ranged from 48 mg/kg to 5,680 mg/kg.

An assessment of the site was conducted on September 22, 2016 by Etech. It was determined that the release was contained inside the soil containment and impacted an area of approximately 8,000 square feet with the exception of less than one bbl. of fluid that was released onto the location. SOGO had excavated approximately 400 cubic yards of impacted material and staged the material on plastic for disposal.

Due to the site not being delineated to below 250 mg/kg on initial assessment, the site was further delineated on September 22, 2016. A backhoe was utilized to dig test trenches in three separate locations inside the containment. Chloride levels ranged from 900 ppm to 11,160 ppm. Additional delineation was performed on December 15, 2016. An air rotary drilling rig was utilized to perform soil

borings at five separate locations. Chloride levels ranged from 41 to 3,890 ppm. Please find copies of the assessment sheets, well records and logs, and the analytical results attached.

Work Performed

Delineation data from sample points on the south side of the containment showed soils were below threshold levels; therefore further excavation was not conducted on the southern half of the containment. Excavation was conducted on the northern half where the trench was located and elevated levels of chlorides remained (See Figure 1). Impacted soils inside the containment were excavated to a depth of four (4) to five (5) feet below ground surface (bgs). Oil tanks are still in production inside the battery, therefore excavation of soils inside the containment was conducted only in areas where it was practicably possible to do so without disturbing the soil integrity around the tanks. SOGO initially excavated impacted areas inside the containment to a depth of two (2) to three (3) feet bgs. Therefore, Etech excavated approximately two (2) additional feet bgs. A trench was present inside of the containment on the north side that ran from east to west prior to the lightning strike.

Upon completion of excavation activities, samples were collected from the excavated area, labeled Bottom Hole 1 through Bottom Hole 5 and delivered to Permian Basin Environmental Lab for chloride analysis. Chloride levels ranged from 877 mg/kg to 1,990 mg/kg. Please find copies of the analytical results attached. Following sampling activities, a 20 mil plastic liner was placed inside the excavated area to prevent further vertical migration of chlorides. The excavated area was backfilled with clean caliche purchased from the landowner.

Following restoration activities, approximately five hundred thirteen (513) cubic yards of impacted soil was transported for disposal at Gandy Marley, Inc., Roswell, New Mexico.

Soils not delineated and/or remediated during the field activities which are the subject of this report will be addressed at the time of tank battery abandonment.

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 me at (432) 563-2200 (office) or via email at tim@etechenv.com.

Respectfully:

Tim McMinn Project Manager Etech Environmental & Safety Solutions, Inc.

Attachment A Initial C-141 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

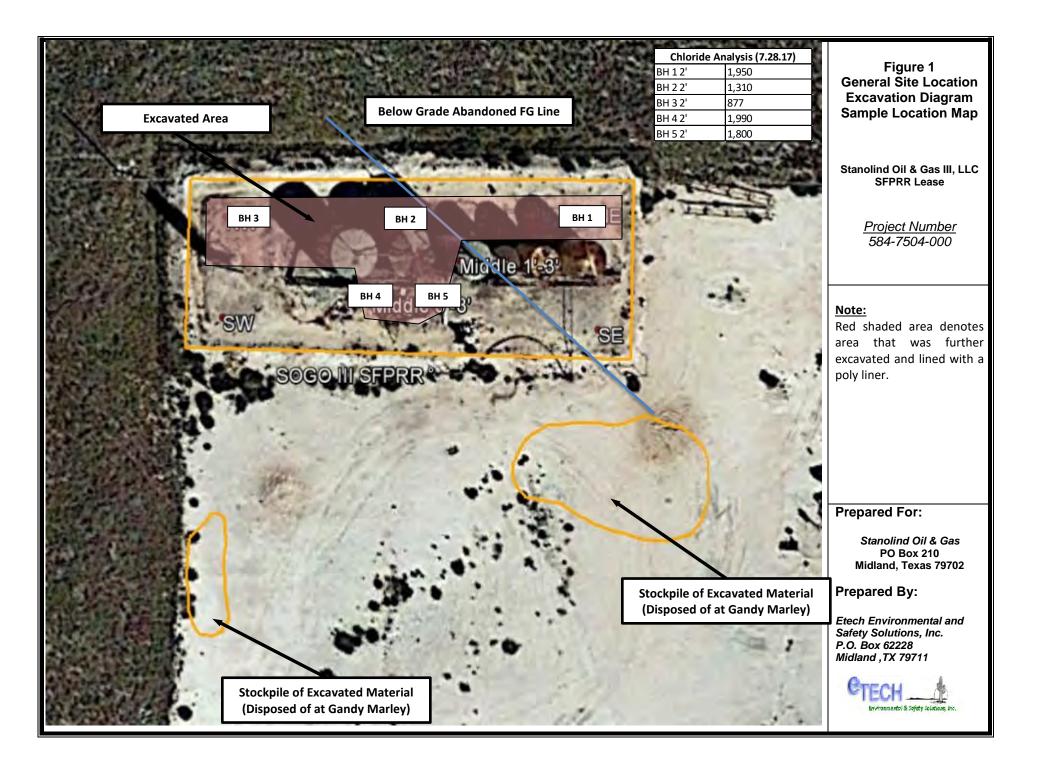
> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

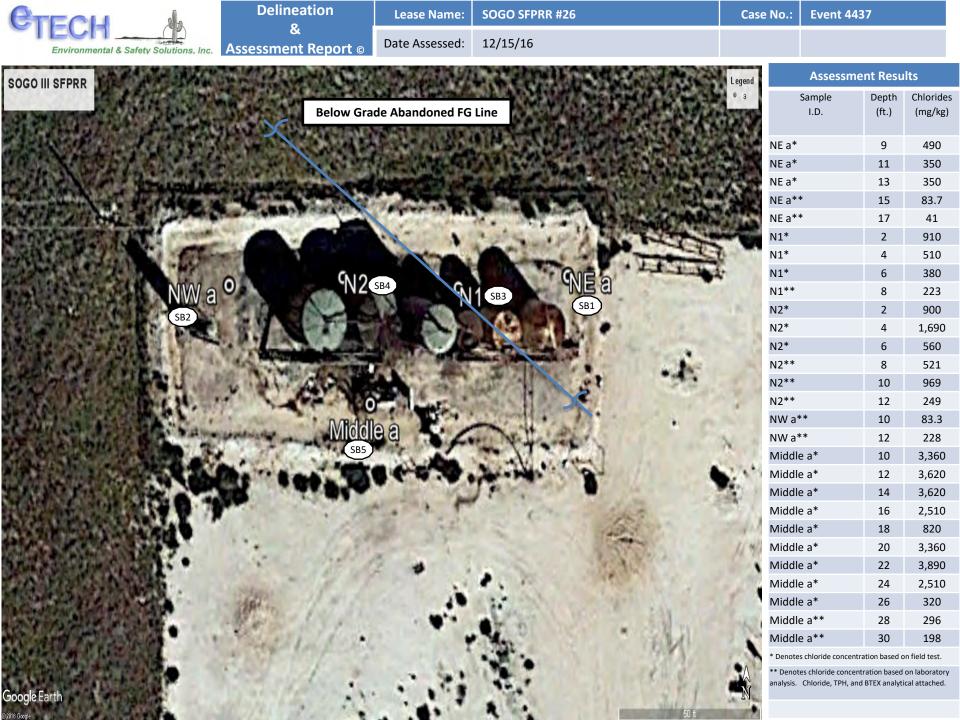
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E-mail Address: bpriebe@stanolind.com C				Conditions 0	r i ippiovai.		Attached	1			
Date: 9/09/2016 Phone:432-640-0040								<u> </u>			

* Attach Additional Sheets If Necessary

Attachment B Annotated Aerial Imagery







Attachment C Well Records and Logs



OFFICE OF THE STATE ENGINEER

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	14'	17'	3'	TAN FINE SAND - SILICEOUS SANDSTONE		CYCN	N/A
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OFFICE OF THE STATE ENGINEER

z	OSE POD N		•	NUMBER) UNIT K SB-3				OSE FILE NUMBER(S) L-14231				
GENERAL AND WELL LOCATION	WELL OWN	ER NAM	IE(S)					PHONE (OPTI	ONAL)			
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AL	FROM	(Teel 5		BORE HOLE DIAM (inches)		NULAR SEAL MA ACK SIZE-RANG			AMOUNT (cubic feet)		METHON	
TERI	0	2'	· · · · ·	6"	.5 CEMENT				·····		LOAD	
ANNULAR MATERIAL	2' 30' 6" 8 BAGS OF 3/8 HOLEPLUG						· · · · · · · · · · · · · · · · · · ·			LOAD	, <u>—</u> .	
MULA				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			···· · · · · · · · · · · · · · · · · ·			·	
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	OSE INTER	NAL U	JSE			POD NUMBER			0 WELL RECORD	& LOG (Ver	sion 06/08	3/2012)
	ATION			····						· · · · · · · · · · · · · · · · · · ·	PAGE	OF 2

	DEPTH	(fect bgl)				
2	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	22'	22'	TAN FINE SAND - SANDSTONE CALICHE	CYGN	N/A
	22'	26'	4'	TAN FINE SAND - SANDSTONE	CYEN	N/A
	26'	30'	4'	TAN FINE SAND	CYON	N/A
Ì	TD	30'			CYGN	
ļ	ļ				CYCN	
		İ			CYCN	
4. HYDROGEOLOGIC LOG OF WELL					CYCN	
10 D	 		· · · · · · · · · · · · · · · · · · ·		CYCN	
l õ	 				CYCN	·····
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		·			CYCN	
1					CYCN	—i
					OTAL ESTIMATED	i
<u> </u>	C AIR LIFT	С в/	AILER CO	THER - SPECIFY	VELL YIELD (gpm):	
	WELL TEST	TEST RI	ESULTS - ATTAC	H A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU AND A TABLE SHOWING DISCHARGE AND DRANDOWN		
VOISIV		START	TIME, END TIME	, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	DING DISCHARGE ME	THOD,
SIVS	MISCELLANI					
UPEI	SOIL BORIN	IG ONLY -	SOIL BORING	WAS PLUGGED AND ABANDONED UPON COMPLETION O		
C SI					r SAMPLING.	
C; RI	UNIT L, SEC	110N 27, 1	OWNSHIP 9 S	OUTH, RANGE 37 EAST		
TEST; RIG SUPER	PRINT NAME	(S) OF DRII	L RIG SUPERVI	SOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTR		
vi				CONSTR	OCTION UTHER THAN	LICENSEE
<u></u>						
<u>ы</u>	THE UNDERS	GNED HEF	LEBY CERTIFIES HE ABOVE DES	THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, CRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO	THE FOREGOING IS A	TRUE AND
EUL	AND THE PER	MIT HOLD	ER WITHIN 20 D	AYS AFTER COMPLETION OF WELL DRILLING	RD WITH THE STATE	ENGINEER
GNA	40	~5				
6. SIGNATURE	de-	f for	<u>~</u>	Edward Fright	27	
	5	GIGNATUR	OF DRILLER	PRINT SIGNEE NAME	DATE	[
FOR	OSE INTERNAL	USE				
_	NUMBER			POD NUMBER TRN NUMBER	ECORD & LOG (Version	1 06/08/2012)
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z				NIT K SB-4				L-1-	4231				1
Di l	(POD 4) SI WELL OWNE							PHO	NE (OPTIC	INAL)			
OCAT	ETECH EN	VIRON	MEN	TAL & SAFETY	SOULUTIONS,	INC					STATI	£	ZIP
GENERAL AND WELL LOCATION	P.O. BOX		G ADI	DRESS				CITY Mid	lland	- 	۲x	7971	
é	WELL			DEGREES			s					ar com	
- F	LOCATIO	N L	ATI <u>TU</u>	DE 33	30	7	N	1		REQUIRED: ONE TENT	HUPA	SECOND	
ERA	(FROM GP	s)	ONGIT	UDE 103	8	43	W			UIRED WGS 84			
GEN	DESCRIPTION	RELATING	WELL	LOCATION TO STREET	FADDRESS AND COM	MON LANDMARKS - PL	IS (SECTION, T	OWNSI	HJIP, RANG	E) WHERE AVAILABLE		4 1 H TO OT	-
1. (TURN WE	ST ONT	O W	HITE RANCH R	OAD. GO WE	ST FOR 1.2 MI TO	UNNAM	ED LI	EASE RO	DAD. TURN N &			E.
	LICENSE NU	MBER		AME OF LICENSED						NAME OF WELL DRI			
	WD1711			DWARD BRYAN						DEPTH WATER FIRS			
	DRILLING ST 12-15-16	TARTED		RILLING ENDED	DEPTH OF COMPL 18'	ETED WELL (FT)	BORE HO	LE DEI	P1H(F1)	N/A			
	COMPLETE) WELL IS	<u>с</u>	ARTESIAN	DRY HOLE	C SHALLOW (UNC	ONFINED)			STATIC WATER LEV N/A	ELIN	COMPLETED WE	II (FT)
TIOL	DRILLING F		•	AIR	C MUD	ADDITIVES - SP	ECIFY						
SMA	DRILLING M	IETHOD	6	ROTARY	C HAMMER	C CABLE TOOL	С отн	ER – Sł	PECIFY.				
FOI	DEPTH	(feet bgl)		BORE HOLE	CASING MA	TERIAL AND/OR		ASIN	6	CASING	ÇA	SING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM TO DIAM (include each casing string, and (include) note sections of screen)					CON	NECT TYPE	TION	INSIDE DIAM. (inches)	THICKNESS (inches)		SIZE (inches)	
CAS	0	18'		6"	N/A	ions of screen,	N/A			N/A	N/	/A	N/A
8G &	, <u> </u>												
FIL									· · · · · ·		<u> </u>	<u> </u>	···-
E E	· · · · · · · · · · · · · · · · · · ·									: 			
2					<u> </u>	· · · · · ·	_						
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		<u> </u>					+				+		
	DEDT:	(fage h c)	,		L ICT	ANNULAR SEAL M	(ATERIA)		<u> </u>	AMOUNT	1	METHO	DD OF
ن ب		(feet bgl		BORE HOLE DIAM. (inches)		ANNULAR SEAL M L PACK SIZE-RAN				(cubic feet)		PLACE	
ANNULAR MATERIAL	FROM 0	то 2'		6"	.5 CEMENT							TOPLOAD	
(TE)	2'	18'		6"	1	3/8 HOLEPLUG				<u> </u>		TOPLOAD	
S MV	<u> </u>									<u> </u>			
LAF.	÷	<u> </u>			· [· · · · · ·	· · · · ·				1			
Į N									·				
3. Al		+		<u>-</u>								<u> </u>	
	······	·								<u> </u>		1	
FOI	R OSE INTER	RNAL US	SE							20 WELL RECORD	& LO	G (Version 06/	08/2012)
	E NUMBER					POD NUMBE	R		TRN	NUMBER		<u> </u>	
LO	CATION											PAG	E 1 OF 2
L		• • • •											

<u> </u>							
	DEPTH	(feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -			ESTIMATED
		· · · · · · · · · · · · · · · · · · ·	THICKNESS	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZO	NEC	WATER BEARING?	YIELD FOR
	FROM	то	(feet)		NES	(YES / NO)	WATER- BEARING
				(attach supplemental sheets to fully describe all units)			ZONES (gpm)
	0	4'	4'	BROWN FINE SAND WITH CLAY		CYGN	N/A
	4'	10'	6'	TAN FINE SAND - CALICHE - SANDSTONE		CYON	N/A
	10'	18'	8'	TAN FINE SAND - CEMENT SANDSTONE		CYGN	N/A
	TD	18'				CYCN	
				·····		CYCN	
	[:		<u> </u>		<u> </u>	
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N.	<u>.</u>	ļ				СҮСИ	·····
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l Se						СҮСМ	
l o			· · · · · · · · · · · · · · · · · · ·			CYCN	
EO		·				CYCN	
4. HYDROGEOLOGIC LOG OF WELL				· · · · · · · · · · · · · · · · · · ·		CYCN	
ÅD.	·		<u> </u>	···· ··· ··· ·· ··· ··· ··· ··· ··· ··			
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1				· · ···· · · · · · · · · · · · · · · ·		CYCN	
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			<u> </u>			CYCN	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: C PUMP	TOT	AL ESTIMATED	
	C AIR LIF		BAILER C	OTHER - SPECIFY		LL YIELD (gpm)	
		i (.	BAILER (OTHER - SPECIF f			
	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, I			
ISTON	WELL (ES	' STAR	I TIME, END TH	ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN C	VER TH	E TESTING PERIO	D.
	MISCELLA	NEOUS INF	ORMATION.				· · · · · · · · · · · · · · · · · · ·
ER				G WAS PLUGGED AND ABANDONED UPON COMPLETI		SAMDI IN/C	
SUP	LEA COUI			IS WAS FEUGGED AND ADANDONED OF ON COMPLET	on or .	DAME CING,	
B			, TOWNSHIP 9	SOUTH, RANGE 37 EAST			
5. TEST; RIG SUPERV							
TES	PRINT NAM	IE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	DNSTRU	CTION OTHER TH	ÁN LÍČENSEE:
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ы	THE UNDER CORRECT I	RSIGNED H RECORD OI	IEREBY CERTIF F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BE ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL	LIEF, TH . RECOR	IE FOREGOING IS D WITH THE STAT	A FRUE AND
UR				DAYS AFTER COMPLETION OF WELL DRILLING.			
IAT		_					
SIGNATURE	10	14		Educe Francis	1	12. 1	
6		SIGNAT	RE OF DRILLE	R / PRINT SIGNEE NAME	<u></u>	DATE	
			<u></u>		<u> </u>		
FOF	OSE INTERI	NAL USE		WR-20 V	VELL RE	CORD & LOG (Ven	sion 06/08/2012)
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1	OSE POD NU	MBER /V	VELLN	VUMBER)		-		OSE FILE NUN	ABER(S)	· · · · · · · · · · · · · · · · · · ·	
z				UNIT K SB-5				L-14231			1
011	WELL OWNE							PHONE (OPTI	ONAL)		
<u>S</u>				NTAL & SAFETY	SOULUTIONS, I	NC					
Γ	WELL OWNE				·····			CITY		STATE 707	
ΕL.I	P.O. Box	62228						Midland		Tx 797	il
Ma		<u> </u>	· · ·	DEGREES	MINUTES	SECOND	\$				
NY.	WELL LOCATIO	N 1.	LATITU	33	30	7	N	* ACCURACY	REQUIRED ONE TEN	TH OF A SECOND	
GENERAL AND WELL LOCATION	(FROM OF			TUDE 103	8	44	w	• DATL'M REG	QUIRED, WGS 84		
ENE	DECOUNTION		LONGI	L LOCATION TO STREET	ADDRESS AND COMM	ON LANDMARKS - PLS	STSECTION, T	J OWNSHJIP, RANG	E) WHERE AVAILABLE		
1. GF									DAD, TURN N &	GO 0.6 MI TO SI	FE.
		51 ON									
	LICENSE NU	MBER		NAME OF LICENSED					NAME OF WELL DR		
	WD1711			DWARD BRYAN			1. 2022.14		1	ST ENCOUNTERED (F	<u> </u>
	DRILLING S 12-15-16	TARTED			DEPTH OF COMPLET	LED WELL (FT)	BORE HO 30'	LE DEPTH (FT)	N/A	от <i>тилофон</i> тилик (8)	· ·
						. <u> </u>		. <u> </u>	ł	EL IN COMPLETED W	ELL (FT)
	COMPLETED	WELL I	s C	ARTESIAN	• DRY HOLE	SHALLOW (UNCO	ONFINED)		N/A		
ION				2	<u> </u>			<u></u>	I		······································
IAT	DRILLING F		(ADDITIVES - SPL				··· ····	
ORN	DRILLING M		(@	ROTARY	HAMMER (CABLE TOOL	<u>(0111</u>	ER – SPECIFY	······	<u> </u>	<u> </u>
INF	DEPTH			BORE HOLE		ERIAL AND/OR ADE		ASING	CASING	CASING WALL THICKNESS	SLOT SIZE
SN SN	FROM	ŤC	D DIAM (include each casing string, and					NECTION FYPE	INSIDE DIAM. (inches)	(inches)	(inches)
CASING INFORMATION				(inches)	· · · · · · · · · · · ·	ns of screen)	ļ		· · · · · · · · · · · · · · · · · · ·		
3	0	30'		6"	N/A	- 	N/A		N/A	N/A	N/A
DRILLING &		.			· · · · · · · · · · · · · · · · · · ·		+	,	····-	<u> </u>	
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	DEPTH	(fect bg	l)	BORE HOLE	LIST A	NNULAR SEAL M	ATERIAL	AND	AMOUNT	METH	OD OF
FF F	FROM	ТС		DIAM, (inches)		PACK SIZE-RANC			(cubic feet)		EMENT
RIA	0	2	-	6"	.5 CEMENT		•. —		- 	TOPLOAD	l
ATE.	2'	30'		6"	9 BAGS OF 3/	8 HOLEPLUG				TOPLOAD	,
RM	· · · · · · · · · · · · · · · · · · ·				· · · · · ·			···· ·			·
ιrγ	·····										
ANNULAR MATERIAL							_				
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FOR	OSE INTER	NAL U	SE						20 WELL RECORD	& LOG (Version 06	/08/2012)
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	DEPTH	(fect bgl)		COLOR A	ND TYPE OF MATERIAL ENCOU	INTERED	N/ A TED	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WAT	TER-BEARING CAVITIES OR FRA	ACTURE ZONES	WATER BEARING?	YIELD FOR WATER- BEARING
				(מונמכה גו	applemental sheets to fully describe	e all units)	(YES / NO)	ZONES (gpm)
	0	3'	3'	BROWN FINE SA	ND WITH CLAY		CYEN	N/A
	3'	74'	11'	TAN FINE SAND	- CALICHE - SANDSTONE		CY (N	N/A
	14'	18'	4'	TAN FINE SAND	- CEMENT SANDSTONE		CY (N	N/A
	18'	26'	8'	TAN FINE SAND	- SANDSTONE		CYGN	N/A
	26'	30'	4'	TAN FINE SAND		• • • • • • •	CYEN	N/A
3	TD	30'				• • • • •	CYCN	
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HYDROCEOLOGIC LOG OF WELL			İ			····	CYCN	
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-	METHOD U	SED TO ES	TIMATE VIELD	OF WATER-BEARIN	IG STRATA: C PUMP		TAL ESTIMATED	
	C AIR LIF	r C	BAILER 🔿	OTHER - SPECIFY:		WI	ELL YIELD (gpm):	
		TEST	RESULTS - ATT		TA COLLECTED DURING WELL	TESTING INCLU	UNG DISCHARCE N	UETUOD
NOISI	WELL TES	T STAR	TIME, END TIM	AE, AND A TABLES	HOWING DISCHARGE AND DRA	WDOWN OVER T	HE TESTING PERIO	D
	MISCELLA	NEOUS INF	ORMATION	· ·		······································		
PER	SOIL BOR		/ - SOIL BORIN	ig was pluggei	O AND ABANDONED UPON C		SAMPLING	
IOS :	LEA COUN						5.000 0000	
RIG	UNIT L, SE	CTION 27	, TOWNSHIP 9	SOUTH, RANGE 3	7 EAST			
S. TEST; RIG SUPERV	PRINT NAM	IE(S) OF DI	ULL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVISION O	F WELL CONSTRU	UCTION OTHER TH	ANLICENSEE
5. T								INTOICENDED.
		<u></u>					<u></u>	
ω.					EST OF HIS OR HER KNOWLED ID THAT HE OR SHE WILL FILE			
6. SIGNATURE					PLETION OF WELL DRILLING	THE TREE NECK	a, ann meara.	ENGINEER
LAN		1.	~					
SIG	Ĵ.		A.	J. A. Good .	In. I	÷.,	13	
¢	(SIGNAT	JRE OF DRILLE	R / PRINT SIGNEE	NAME:		DATE	
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	E OSE INTERN E NUMBER	NAL USE			POD NUMBER	WR-20 WELL RI	ECORD & LOG (Ver	sion 06/08/2012)
	ATION	<u> </u>		<u> </u>				PAGE 2 OF 2

Attachment D Photograph Log



View of tank battery looking to the northwest.



View of front of tank battery looking to the east.



View of the northwest corner of the tank battery.



View of tank pad where previous tanks were located looking east; stockpile of excavated material in background.



View of Middle test trench.



View of NW test trench.



View of NE test trench.



View of stockpile of excavated impacted material.



View of stockpile of excavated impacted material.



View of boring NE a after plugging and abandonment.



View of of boring N1 after plugging and abandonment.



View of drilling operations at the boring N2 location.



View of boring N2 after plugging and abandonment.



View of boring NW a after plugging and abandonment.



View of emplacement of bentonite plug in boring Middle a during plugging and abandonment.



View of boring Middle a after plugging and abandonment.



Close up view of boring Middle a after plugging and abandonment.



View of excavation looking to the west.



View of excavation looking to the west.



View of plastic liner installation looking to the west.



View of excavation after backfilling looking to the west.



View of excavation after backfilling looking to the west.

Attachment E Analytical Results



September 14, 2016

JACKIE WASHBURN STANOLIND OIL & GAS LLC 310 W. WALL STREET, STE. 1000 MIDLAND, TX 79701

RE: S F P R R #26

Enclosed are the results of analyses for samples received by the laboratory on 09/13/16 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 1' (H602043-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	.5M mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	86.0 9	% 35-147							
Surrogate: 1-Chlorooctadecane	94.3 9	28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be instrumed by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 2' (H602043-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	83.5	% 35-147							
Surrogate: 1-Chlorooctadecane	92.4	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 3' (H602043-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	81.0	% 35-147							
Surrogate: 1-Chlorooctadecane	89.4	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 1' (H602043-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	88.0	% 35-147							
Surrogate: 1-Chlorooctadecane	84.8	% 28-171							

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STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 2' (H602043-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	87.6	% 35-147							
Surrogate: 1-Chlorooctadecane	77.8	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 3' (H602043-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	85.0	% 35-147							
Surrogate: 1-Chlorooctadecane	93.7	28-171							

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Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 1' (H602043-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	86.4	% 35-147							
Surrogate: 1-Chlorooctadecane	88.6	% 28-171							

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Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 2' (H602043-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	76.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.0	28-171							

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STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 3' (H602043-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	73.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	84.3	28-171							

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Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 1' (H602043-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>98.3</i>	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	76.5	% 35-147							
Surrogate: 1-Chlorooctadecane	90.3	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 2' (H602043-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	62.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	75.7	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 3' (H602043-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	72.2	% 35-147							
Surrogate: 1-Chlorooctadecane	84.1	% 28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 1' (H602043-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	82.6 9	35-147	,						
Surrogate: 1-Chlorooctadecane	94.7 9	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 2' (H602043-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	84.6 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.4 9	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



STANOLIND OIL & GAS LLC JACKIE WASHBURN 310 W. WALL STREET, STE. 1000 MIDLAND TX, 79701 Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 3' (H602043-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/14/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	
Surrogate: 1-Chlorooctane	83.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.9	% 28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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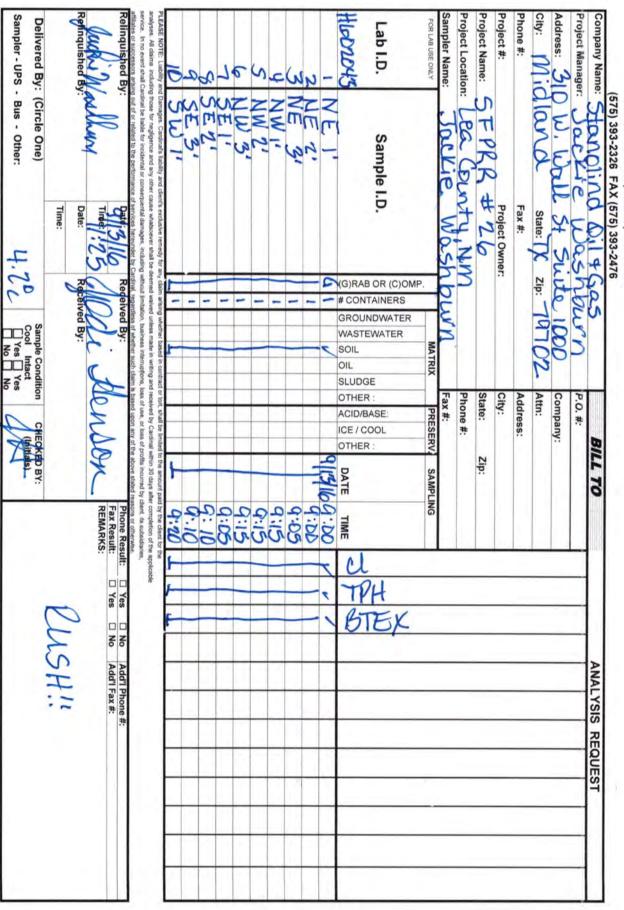
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Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FA	(575) 393-2326 FAX (575) 393-2476		
Company Name: Project Manager:		BILL TO	ANALYSIS REQUEST
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE ONLY		PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TPH BTEX
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.22 Sample Condition	es (ntials)	
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

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

> Project: SFPRR LEASE FIRE Project Number: 584-7504-000 Location: Tatum , NM

Lab Order Number: 6L19002



NELAP/TCEQ # T104704156-13-3

Report Date: 12/22/16

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

Project: SFPRR LEASE FIRE Project Number: 584-7504-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE a 15'	6L19002-01	Soil	12/15/16 09:35	12-19-2016 10:00
NE a 17'	6L19002-02	Soil	12/15/16 09:40	12-19-2016 10:00
NW a 10'	6L19002-03	Soil	12/15/16 10:30	12-19-2016 10:00
NW a 12'	6L19002-04	Soil	12/15/16 10:35	12-19-2016 10:00
N2 8'	6L19002-05	Soil	12/15/16 12:25	12-19-2016 10:00
N2 10'	6L19002-06	Soil	12/15/16 12:30	12-19-2016 10:00
N2 12'	6L19002-07	Soil	12/15/16 12:35	12-19-2016 10:00
Middle a 28'	6L19002-08	Soil	12/15/16 14:35	12-19-2016 10:00
Middle a 30'	6L19002-09	Soil	12/15/16 14:40	12-19-2016 10:00

NE a 15'

	6L19002-01 (Soil)										
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
			Environme	ntal Lab, I	L.P.						
General Chemistry Parameters b	oy EPA / Standard Methods										
Chloride	83.7	1.04	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0			
% Moisture	4.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation			

Permian Basin Environmental Lab, L.P.

	6L19002-02 (Soil)	
	NE a 17'	
Odessa TX, 79765	Project Manager: Tim McMinn	
13000 West County Road 100	Project Number: 584-7504-000	
E Tech Environmental & Safety Solutions, Inc.	Project: SFPRR LEASE FIRE	

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA	/ Standard Methods										
Chloride											
% Moisture	12.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation			

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.

Fax: (432) 563-2213

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

Fax: (432) 563-2213

NW	a 10'
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6L19002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Permian Basin Environmental Lab, L.P.												
General Chemistry Parameters	by EPA / Standard Methods											
Chloride												
% Moisture	14.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation				

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765		Projec Project Number Project Manager	r: 584-75		RE			Fax: (432) 5	63-2213		
NW a 12' 6L19002-04 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Perm	ian Basin En	vironme	ntal Lab, I	P .						
General Chemistry Parameters by EPA / Star	idard Method	ls									
Chloride	228	1.16 n	ng/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0			

%

1

P6L2001

12/20/16

12/20/16

% calculation

0.1

14.0

Permian Basin Environmental Lab, L.P.

% Moisture

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

N2 8'

6L19002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Permian Basin Environmental Lab, L.P.												
General Chemistry Parameters	by EPA / Standard Methods											
Chloride												
% Moisture 6.0 0.1 % 1 P6L2001 12/20/16 12/20/16 % calculation												

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765		Proje Project Numb Project Manag	er: 584-75		RE			Fax: (432) 5	63-2213		
N2 10' 6L19002-06 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Perm	ian Basin Ei	nvironme	ntal Lab, I	L.P.						
<u>General Chemistry Parameters by EPA / Star</u> Chloride	<u>idard Methods</u> 969		mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0			

%

1

P6L2001

12/20/16

12/20/16

% calculation

0.1

8.0

Permian Basin Environmental Lab, L.P.

% Moisture

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765		Proje Project Numb Project Manag	oer: 584-75		RE			Fax: (432) 50	53-2213
			N2 12')02-07 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, 1	L .P.				
General Chemistry Parameters by EPA / Star	ndard Method	S							
Chloride	249	1.15	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

Middle a 28'

6L19002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin Ei	nvironmer	ıtal Lab, I	P.				
General Chemistry Parameters by EPA	/ Standard Methods								
Chloride	296	1.06	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

Middle a 30'

6L19002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	in Basin E	nvironmer	ıtal Lab, I	P.				
<u>General Chemistry Parameters h</u>	by EPA / Standard Methods								
Chloride	198	1.09	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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
Analyte	Result	Liiiit	Ollits	Level	Result	70KEC	Lillints	KI D	Linin	Notes
Batch P6L1903 - *** DEFAULT PREP ***										
Blank (P6L1903-BLK1)				Prepared: 1	2/19/16 A	nalyzed: 1	2/20/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6L1903-BS1)				Prepared: 1	2/19/16 A	nalyzed: 1	2/20/16			
Chloride	379	1.00	mg/kg wet	400		94.9	80-120			
LCS Dup (P6L1903-BSD1)				Prepared: 1	2/19/16 A	analyzed: 1	2/20/16			
Chloride	382	1.00	mg/kg wet	400		95.5	80-120	0.620	20	
Duplicate (P6L1903-DUP1)	Sou	rce: 6L16006	-23	Prepared: 1	2/19/16 A	nalyzed: 1	2/20/16			
Chloride	282	5.88	mg/kg dry		261			7.78	20	
Duplicate (P6L1903-DUP2)	Sou	rce: 6L16006	-35	Prepared: 1	2/19/16 A	nalyzed: 1	2/20/16			
Chloride	412	1.16	mg/kg dry		418			1.52	20	
Matrix Spike (P6L1903-MS1)	Sou	rce: 6L16006	-23	Prepared: 1	2/19/16 A	nalyzed: 1	2/20/16			
Chloride	1800	5.88	mg/kg dry	1410	261	109	80-120			
Batch P6L1904 - *** DEFAULT PREP ***										
Blank (P6L1904-BLK1)				Prepared: 1	2/19/16 A	analyzed: 1	2/20/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6L1904-BS1)				Prepared: 1	2/19/16 A	analyzed: 1	2/20/16			
Chloride	384	1.00	mg/kg wet	400		96.1	80-120			
LCS Dup (P6L1904-BSD1)				Prepared: 1	2/19/16 A	analyzed: 1	2/20/16			
Chloride	390	1.00	mg/kg wet	400		97.5	80-120	1.45	20	

Permian Basin Environmental Lab, L.P.

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 P6L1904 - *** DEFAULT PREP ***										
Duplicate (P6L1904-DUP1)	Sourc	e: 6L19002	-08	Prepared:	12/19/16 A	nalyzed: 12	/20/16			
Chloride	280	1.06	mg/kg dry		296			5.52	20	
Duplicate (P6L1904-DUP2)	Sourc	e: 6L19010	-03	Prepared:	12/19/16 A	nalyzed: 12	/20/16			
Chloride	533	1.05	mg/kg dry		527			1.15	20	
Matrix Spike (P6L1904-MS1)	Sourc	e: 6L19002	-08	Prepared:	12/19/16 A	nalyzed: 12	/20/16			
Chloride	1250	1.06	mg/kg dry	1060	296	89.6	80-120			
Batch P6L2001 - *** DEFAULT PREP ***										
Blank (P6L2001-BLK1)				Prepared &	Analyzed:	12/20/16				
% Moisture	ND	0.1	%							
Duplicate (P6L2001-DUP1)	Sourc	e: 6L19005	-02	Prepared 8	Analyzed:	12/20/16				
% Moisture	4.0	0.1	%		4.0			0.00	20	

Notes and Definitions

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

Sun Barron

Report Approved By:

Brent Barron, Laboratory Director/Technical Director

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12/22/2016

Date:

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



Analytical Report

Prepared for:

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

> Project: SFPRR LEASE FIRE Project Number: 584-7504-000 Location: Tatum NM

Lab Order Number: 7A06003



NELAP/TCEQ # T104704156-13-3

Report Date: 01/10/17

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

Project:SFPRR LEASE FIREProject Number:584-7504-000Project Manager:Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N1 8'	7A06003-01	Soil	12/15/16 13:10	01-06-2017 11:45

N1 8'

		7A06	003-01 (So	oil)					
	D. k	Reporting	11	Dibetion	D-t-h	Durananad	A	Mathad	Natas
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin F	Environme	ntal Lab, I	P.				
General Chemistry Parameters	by EPA / Standard Methods								
Chloride	223	1.06	mg/kg dry	1	P7A0601	01/06/17	01/09/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7A0904	01/09/17	01/09/17	% calculation	

Permian Basin Environmental Lab, L.P.

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
A mary te	Result	Linnt	Onits	Level	Result	/orcee	Linits	NI D	Emilt	Notes
Batch P7A0601 - *** DEFAULT PREP ***										
Blank (P7A0601-BLK1)				Prepared: (01/06/17 A	nalyzed: 0	1/09/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7A0601-BS1)				Prepared: (01/06/17 A	nalyzed: 0	1/09/17			
Chloride	442	1.00	mg/kg wet	400		111	80-120			
LCS Dup (P7A0601-BSD1)				Prepared: (01/06/17 A	nalyzed: 0	1/09/17			
Chloride	415	1.00	mg/kg wet	400		104	80-120	6.43	20	
Duplicate (P7A0601-DUP1)	Sou	rce: 7A06001	-01	Prepared: (01/06/17 A	nalyzed: 01	1/09/17			
Chloride	53.1	1.18	mg/kg dry		53.6			0.971	20	
Duplicate (P7A0601-DUP2)	Sou	rce: 7A06002	-06	Prepared: (01/06/17 A	nalyzed: 01	1/09/17			
Chloride	10900	55.6	mg/kg dry		10500			3.83	20	
Matrix Spike (P7A0601-MS1)	Sou	rce: 7A06001	-01	Prepared: (01/06/17 A	nalyzed: 0	1/09/17			
Chloride	1200	1.18	mg/kg dry	1180	53.6	97.1	80-120			
Batch P7A0904 - *** DEFAULT PREP ***										
Blank (P7A0904-BLK1)				Prepared &	Analyzed:	01/09/17				
% Moisture	ND	0.1	%	1						
Duplicate (P7A0904-DUP1)	Sou	rce: 7A06002	-06	Prepared &	Analyzed:	01/09/17				
% Moisture	11.0	0.1	%	1	10.0			9.52	20	
Duplicate (P7A0904-DUP2)	Sou	rce: 7A09001	-01	Prepared &	Analyzed:	01/09/17				
% Moisture	2.0	0.1	%	1	1.0			66.7	20	

Permian Basin Environmental Lab, L.P.

Notes and Definitions

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

Sun Barron

Report Approved By:

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.

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.

1/10/2017

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Temperature Upon Receipt: 1,0 MUte								F	H		片	RUSH TAT (Pre-Schedule) 24, 48, 72 hr	rs							CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phone: 432-563-2200 Fax: 432-563-2213

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



Analytical Report

Prepared for:

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

> Project: SFPRR LEASE FIRE Project Number: 584-7504-000 Location: SOGO

Lab Order Number: 7H01006



NELAP/TCEQ # T104704516-16-7

Report Date: 08/07/17

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

Project: SFPRR LEASE FIRE Project Number: 584-7504-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 2'	7H01006-01	Soil	07/28/17 08:00	08-01-2017 08:46
Bottom Hole 2 2'	7H01006-02	Soil	07/28/17 08:15	08-01-2017 08:46
Bottom Hole 3 2'	7H01006-03	Soil	07/28/17 08:30	08-01-2017 08:46
Bottom Hole 4 2'	7H01006-04	Soil	07/28/17 08:45	08-01-2017 08:46
Bottom Hole 5 2'	7H01006-05	Soil	07/28/17 09:00	08-01-2017 08:46

Bottom Hole 1 2' 7H01006-01 (Soil)

		/ 1101	000-01 (30	ш <i>)</i>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	P .				
General Chemistry Parameters by EPA /	Standard Method	S							
Chloride	1950	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Fax: (432) 563-2213

Bottom Hole 2 2'

7H01006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmer	ıtal Lab, I	L .P.				
General Chemistry Parameters by EPA /	Standard Methods								
Chloride	1310	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

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

Fax: (432) 563-2213

Bottom Hole 3 2'

7H01006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmeı	ntal Lab, I	P .				
General Chemistry Parameters by EPA / S	Standard Methods	5							
Chloride	877	5.75	mg/kg dry	5	P7H0209	08/02/17	08/05/17	EPA 300.0	
% Moisture	13.0	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

Fax: (432) 563-2213

Bottom Hole 4 2'

7H01006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmeı	ntal Lab, I	P .				
General Chemistry Parameters by EPA /	Standard Methods								
Chloride	1990	25.3	mg/kg dry	25	P7H0209	08/02/17	08/05/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

Fax: (432) 563-2213

Bottom Hole 5 2'

7H01006-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmer	ıtal Lab, I	P .				
General Chemistry Parameters by EPA / 	Standard Methods								
Chloride	1800	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

	Result	Reporting Limit	Units	Spike	Source		%REC	RPD	RPD Limit	NL
Analyte	Kesuit	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch P7H0203 - *** DEFAULT PREP ***										
Blank (P7H0203-BLK1)				Prepared &	z Analyze	ed: 08/02/17				
% Moisture	ND	0.1	%							
Duplicate (P7H0203-DUP1)	Sour	ce: 7H01005-	-01	Prepared &	. Analyze	ed: 08/02/17				
% Moisture	ND	0.1	%		ND				20	
Duplicate (P7H0203-DUP2)	Sour	ce: 7H01008-	-02	Prepared &	. Analyze	ed: 08/02/17				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Batch P7H0209 - *** DEFAULT PREP ***										
Blank (P7H0209-BLK1)				Prepared: 0	08/02/17	Analyzed: 08	3/05/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7H0209-BS1)				Prepared: 0	08/02/17	Analyzed: 08	8/05/17			
Chloride	405	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P7H0209-BSD1)				Prepared: 0	08/02/17	Analyzed: 08	3/05/17			
Chloride	366	1.00	mg/kg wet	400		91.4	80-120	10.1	20	
Duplicate (P7H0209-DUP1)	Sour	ce: 7G31002-	-01	Prepared: 0	08/02/17	Analyzed: 08	3/05/17			
Chloride	7.32		mg/kg dry	1	8.07			9.71	20	
Duplicate (P7H0209-DUP2)	Sour	-ce: 7H01003-	-01	Prepared: 0	08/02/17	Analyzed: 08	3/05/17			
Chloride	799	1.22	mg/kg dry		823			3.00	20	
Matrix Spike (P7H0209-MS1)	Sour	-ce: 7G31002-	-01	Prepared: 0	08/02/17	Analyzed: 08	3/05/17			
Chloride	1070	1.10	mg/kg dry	1100	8.07	96.4	80-120			

Notes and Definitions

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

Sun Barron

Report Approved By:

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.

8/7/2017

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