



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@etechenvironment.com](mailto:tim@etechenvironment.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

Form C-141  
Revised August 8, 2011

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.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company SOGO III LLC	Contact Billy M. Priebe
Address P.O. Box 210, Midland, TX 79702	Telephone No. 432-640-0040
Facility Name SFPRR	Facility Type Tank Battery/Injection Station
Surface Owner Michael Harton	Mineral Owner Santa Fe, et al
API No. NA	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	27	09S	37E	1310	South	1330	West	Lea

Latitude 33.501784 Longitude -103.145577

**NATURE OF RELEASE**

Type of Release Oil & Water	Volume of Release 630	Volume Recovered 460
Source of Release Tank Battery	Date and Hour of Occurrence 9/7/16, hour unknown	Date and Hour of Discovery 9/07/16, 8 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mark Whitaker @ 9:46 AM	
By Whom? Jackie Washburn, SOGO Production Foreman	Date and Hour 9/07/16 9:45 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Tank battery/injection station on the SFPRR lease (est. 20 miles NE of Tatum, NM) burned. The fire is believed to have been caused by lightning since thunderstorms were in the area.

Describe Area Affected and Cleanup Action Taken.\*

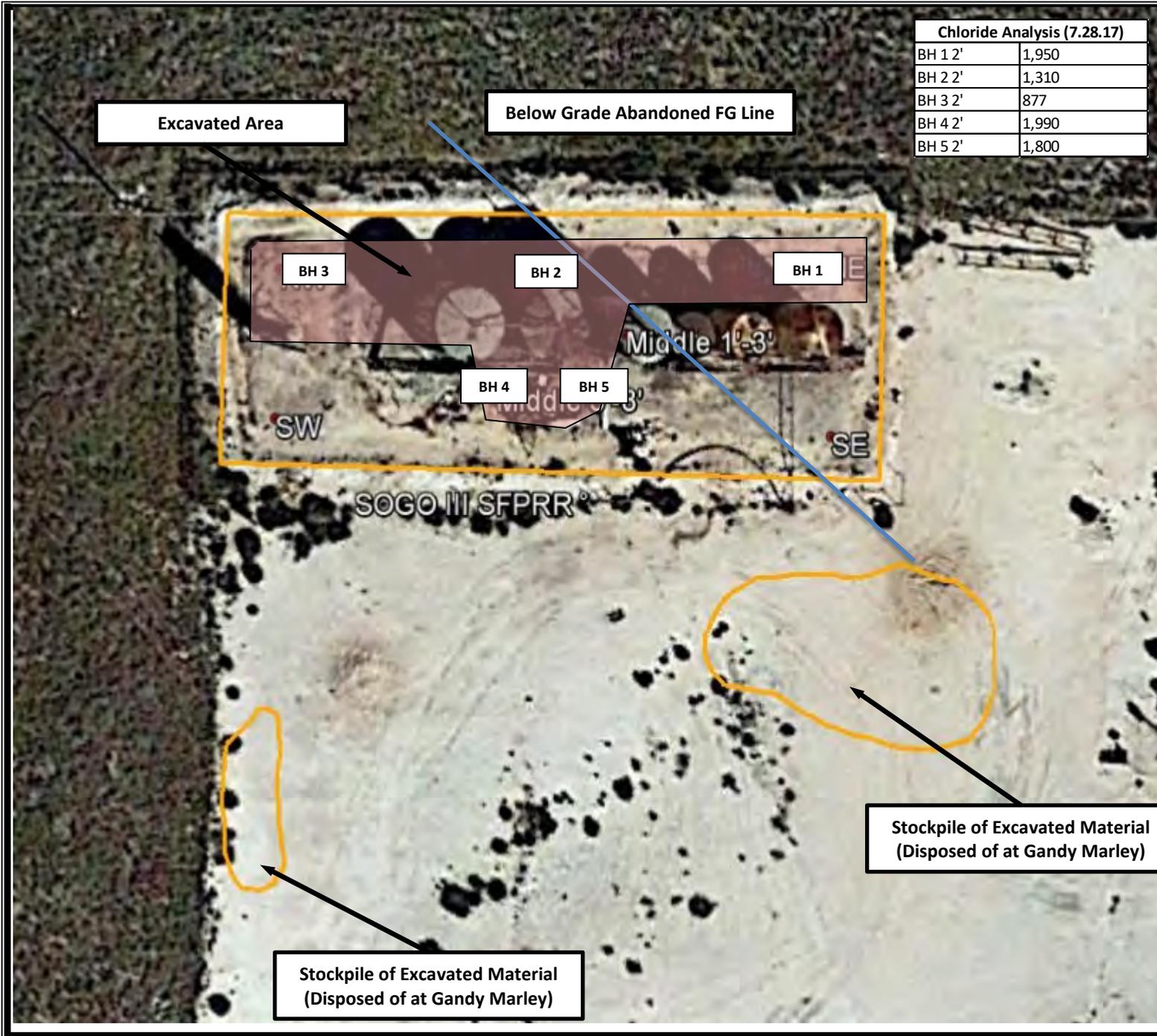
The majority of fluid from the tanks was contained by a firewall with the exception of a small amount that ran onto the location. The free liquid was picked up by a vacuum truck and taken to disposal. Tank bottoms and solids were jetted using a hot oiler and taken to disposal. Contaminated soil will be removed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Billy M. Priebe</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Billy M. Priebe	Approved by Environmental Specialist:	
Title: Executive VP - Operations	Approval Date:	Expiration Date:
E-mail Address: bpriebe@stanolind.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/09/2016	Phone: 432-640-0040	

\* Attach Additional Sheets If Necessary

**Attachment B**  
**Annotated Aerial Imagery**



Chloride Analysis (7.28.17)	
BH 1 2'	1,950
BH 2 2'	1,310
BH 3 2'	877
BH 4 2'	1,990
BH 5 2'	1,800

**Figure 1**  
**General Site Location**  
**Excavation Diagram**  
**Sample Location Map**

Stanolind Oil & Gas III, LLC  
 SFPRR Lease

*Project Number*  
 584-7504-000

**Note:**  
 Red shaded area denotes area that was further excavated and lined with a poly liner.

**Prepared For:**  
 Stanolind Oil & Gas  
 PO Box 210  
 Midland, Texas 79702

**Prepared By:**  
 Etech Environmental and  
 Safety Solutions, Inc.  
 P.O. Box 62228  
 Midland, TX 79711





**Assessment Results**

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
NE*	1	1,760
NE*	2	3,120
NE*	3	5,680
NE**	6	900
NE**	7	3,100
SE*	1	112
SE*	2	48
SE*	3	128
Middle*	1	624
Middle*	2	640
Middle*	3	736
Middle**	5	990
Middle**	8	11,160
SW*	1	240
SW*	2	240
SW*	3	352
NW*	1	2,040
NW*	2	2,360
NW*	3	2,880
NW**	4	1,090
NW**	5	1,800
NW**	7	1,620
NW**	8	990

\* Denotes soil sample collected on 9/13/2016. Chloride concentration based on laboratory analysis. Chloride,TPH, and BTEX analytical attached.

\*\* Denotes soil sample collected on 9/22/2016. Chloride concentration based on field test.

Stockpile of Excavated Material

Stockpile of Excavated Material

SOGO III SFRR



**Assessment Results**

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
NE a*	9	490
NE a*	11	350
NE a*	13	350
NE a**	15	83.7
NE a**	17	41
N1*	2	910
N1*	4	510
N1*	6	380
N1**	8	223
N2*	2	900
N2*	4	1,690
N2*	6	560
N2**	8	521
N2**	10	969
N2**	12	249
NW a**	10	83.3
NW a**	12	228
Middle a*	10	3,360
Middle a*	12	3,620
Middle a*	14	3,620
Middle a*	16	2,510
Middle a*	18	820
Middle a*	20	3,360
Middle a*	22	3,890
Middle a*	24	2,510
Middle a*	26	320
Middle a**	28	296
Middle a**	30	198

\* Denotes chloride concentration based on field test.  
\*\* Denotes chloride concentration based on laboratory analysis. Chloride, TPH, and BTEX analytical attached.

**Attachment C**  
**Well Records and Logs**



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 1) SFPRR #26 UNIT K SB-1				OSE FILE NUMBER(S) L-14231			
	WELL OWNER NAME(S) ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS P.O. Box 62228				CITY Midland	STATE Tx	ZIP 79711	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 33		MINUTES 30	SECONDS 7	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103		8	43	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 12-15-16	DRILLING ENDED 12-15-16	DEPTH OF COMPLETED WELL (FT) 18'	BORE HOLE DEPTH (FT) 18'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	18'	6"	N/A	N/A	N/A	N/A	N/A
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	2	6"	.5 CEMENT		TOPLoad		
	2	18	6"	6 BAGS OF 3/8 HOLEPLUG		TOPLoad		





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 2) SFPRR #26 UNIT K SB-2				OSE FILE NUMBER(S) L-14231	
	WELL OWNER NAME(S) ETECH ENVIRONMENTAL & SAFETY SOLUTIONS, INC				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS P.O. Box 62228				CITY Midland	STATE Tx
					ZIP 79711	
WELL LOCATION (FROM GPS)		DEGREES LATITUDE 33	MINUTES 30	SECONDS 7	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 103	8	44	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711	NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION			
	DRILLING STARTED 12-15-16	DRILLING ENDED 12-15-16	DEPTH OF COMPLETED WELL (FT) 26'	BORE HOLE DEPTH (FT) 26'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY							
	DRILLING METHOD <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	26'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	2'	6"	.5 CEMENT		TOPLOAD
	2'	26'	6"	7 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 3) SFPRR #26 UNIT K SB-3			OSE FILE NUMBER(S) L-14231		
	WELL OWNER NAME(S) ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC			PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS P.O. Box 62228			CITY Midland	STATE Tx	ZIP 79711
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 33	MINUTES 30	SECONDS 7 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
LONGITUDE 103 8 44 W						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 12-15-16	DRILLING ENDED 12-15-16	DEPTH OF COMPLETED WELL (FT) 30'	BORE HOLE DEPTH (FT) 30'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY							
	DRILLING METHOD <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	30'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	2'	6"	.5 CEMENT		TOPLOAD
	2'	30'	6"	8 BAGS OF 3/8 HOLEPLUG		TOPLOAD





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 4) SFPRR #26 UNIT K SB-4			OSE FILE NUMBER(S) L-14231		
	WELL OWNER NAME(S) ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC			PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS P.O. Box 62228			CITY Midland	STATE Tx	ZIP 79711
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 33	SECONDS 30	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84
	LONGITUDE	103	8	43	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 12-15-16		DRILLING ENDED 12-15-16		DEPTH OF COMPLETED WELL (FT) 18'	BORE HOLE DEPTH (FT) 18'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY							
	DRILLING METHOD <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	18'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	2'	6"	.5 CEMENT		TOPLOAD
	2'	18'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 5) SFPRR #26 UNIT K SB-5			OSE FILE NUMBER(S) L-14231		
	WELL OWNER NAME(S) ETECH ENVIRONMENTAL & SAFETY SOLUTIONS, INC			PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS P.O. Box 62228			CITY Midland	STATE Tx	ZIP 79711
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 33	MINUTES 30	SECONDS 7	N	
	LONGITUDE 103	8	44	W		
* ACCURACY REQUIRED- ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						
TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711	NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION			
	DRILLING STARTED 12-15-16	DRILLING ENDED 12-15-16	DEPTH OF COMPLETED WELL (FT) 30'	BORE HOLE DEPTH (FT) 30'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY							
	DRILLING METHOD <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	30'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	2'	6"	.5 CEMENT		TOPLOAD
	2'	30'	6"	9 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 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.



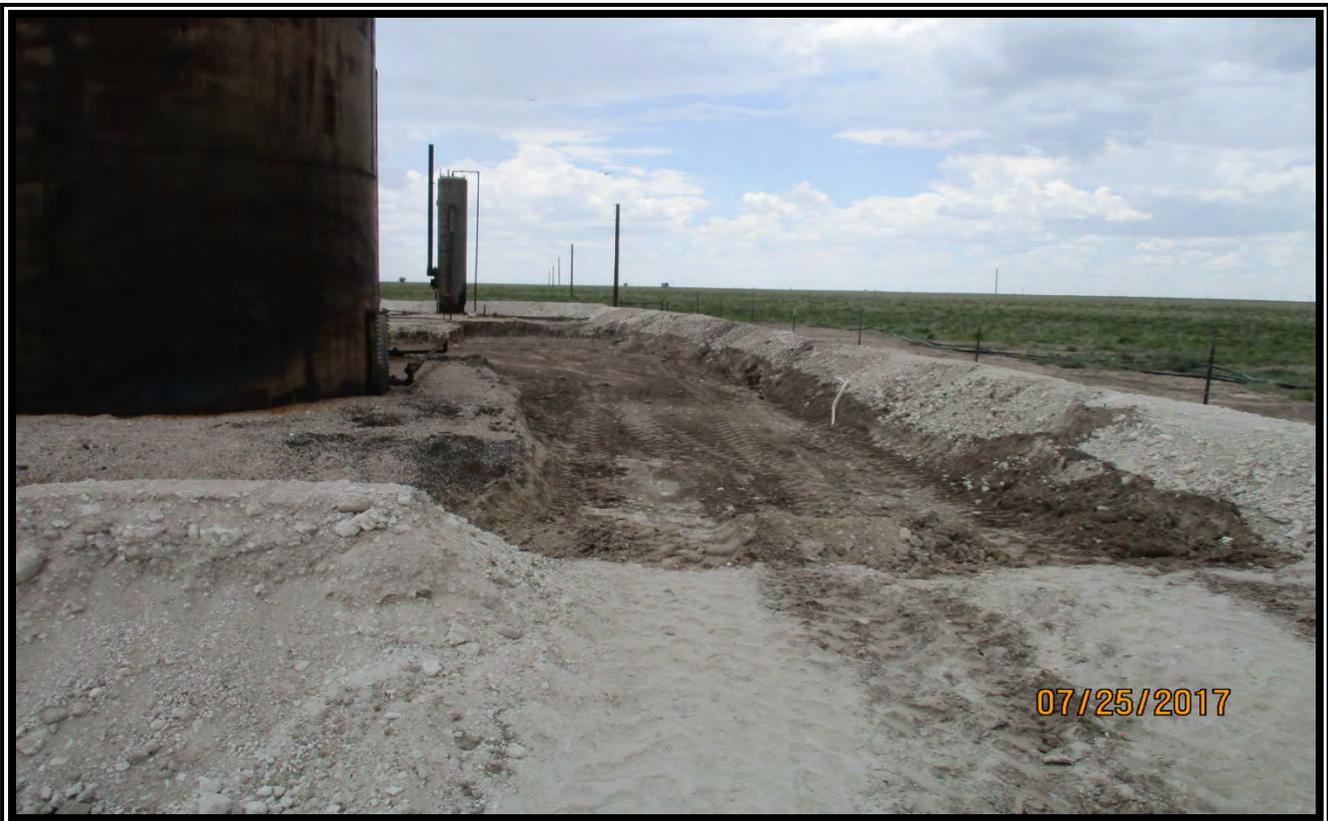
View of emplacement of bentonite plug in boring Middle a during plugging and abandonment.



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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

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		Analyzed 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 % 73.6-140

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		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 % 35-147

Surrogate: 1-Chlorooctadecane 94.3 % 28-171

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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		Analyzed 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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3120</b>	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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 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		Analyzed 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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5680</b>	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 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.4 % 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 @ 1' (H602043-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 88.0 % 35-147

Surrogate: 1-Chlorooctadecane 84.8 % 28-171

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 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		Analyzed 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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 77.8 % 28-171

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 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 @ 3' (H602043-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-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		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 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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 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 @ 1' (H602043-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	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 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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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 @ 2' (H602043-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-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		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 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		Analyzed 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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	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 73.8 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

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 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		Analyzed 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) 98.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>240</b>	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 76.5 % 35-147

Surrogate: 1-Chlorooctadecane 90.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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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: SOUTH WEST @ 2' (H602043-11)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>240</b>	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 62.9 % 35-147

Surrogate: 1-Chlorooctadecane 75.7 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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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: SOUTH WEST @ 3' (H602043-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-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		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 72.2 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

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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: MIDDLE @ 1' (H602043-13)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>624</b>	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 82.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.7 % 28-171

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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: MIDDLE @ 2' (H602043-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>640</b>	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 84.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.4 % 28-171

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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: MIDDLE @ 3' (H602043-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 73.6-140

Chloride, SM4500CI-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		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 83.6 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 28-171

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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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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

### BILL TO

### ANALYSIS REQUEST

Company Name: **Standing Oil & Gas**  
 Project Manager: **Jackie Washburn**  
 Address: **310 W. Wall St Suite 1000**  
 City: **Midland** State: **TX** Zip: **79702**  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

P.O. #: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: **SE PRR # 26**  
 Project Location: **Lea County, NM**  
 Sampler Name: **Jackie Washburn**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H100045	1 NE 1'	G	1						9/12/10	9:00				
	2 NE 2'		1						9/12/10	9:05				
	3 NE 3'		1						9/12/10	9:10				
	4 NW 1'		1						9/12/10	9:15				
	5 NW 2'		1						9/12/10	9:15				
	6 NW 3'		1						9/12/10	9:05				
	7 SE 1'		1						9/12/10	9:10				
	8 SE 2'		1						9/12/10	9:10				
	9 SE 3'		1						9/12/10	9:20				
	10 SW 1'		1						9/12/10	9:20				

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Relinquished By: **Jackie Washburn**  
 Date: **9/12/10** Time: **11:25**  
 Received By: **Jackie Washburn**  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Phone Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  Add'l Fax #: \_\_\_\_\_

REMARKS: **RUSH!!**

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: **4.2c**  
 Sample Condition:  Cool  Intact  
 Yes  No  Yes  No  
 CHECKED BY: **[Signature]**

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



**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

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
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

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

Fax: (432) 563-2213

**NE a 15'**  
**6L19002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>83.7</b>	1.04	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	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

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

Fax: (432) 563-2213

**NE a 17'**  
**6L19002-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>41.0</b>	1.14	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>12.0</b>	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

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

Fax: (432) 563-2213

**NW a 10'**  
**6L19002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>83.3</b>	1.16	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>14.0</b>	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

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

Fax: (432) 563-2213

**NW a 12'**  
**6L19002-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>228</b>	1.16	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>14.0</b>	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

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

Fax: (432) 563-2213

**N2 8'**  
**6L19002-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>521</b>	1.06	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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13000 West County Road 100  
Odessa TX, 79765

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

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**N2 10'**  
**6L19002-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>969</b>	1.09	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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**N2 12'**  
**6L19002-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>249</b>	1.15	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>13.0</b>	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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Odessa TX, 79765

Project: SFPRR LEASE FIRE  
Project Number: 584-7504-000  
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**Middle a 28'**  
**6L19002-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>296</b>	1.06	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	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

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

Fax: (432) 563-2213

**Middle a 30'**  
**6L19002-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>198</b>	1.09	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
<b>% Moisture</b>	<b>8.0</b>	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
<b>Batch P6L1903 - *** DEFAULT PREP ***</b>										
<b>Blank (P6L1903-BLK1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P6L1903-BS1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	379	1.00	mg/kg wet	400		94.9	80-120			
<b>LCS Dup (P6L1903-BSD1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	382	1.00	mg/kg wet	400		95.5	80-120	0.620	20	
<b>Duplicate (P6L1903-DUP1)</b> Source: 6L16006-23 Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	282	5.88	mg/kg dry		261			7.78	20	
<b>Duplicate (P6L1903-DUP2)</b> Source: 6L16006-35 Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	412	1.16	mg/kg dry		418			1.52	20	
<b>Matrix Spike (P6L1903-MS1)</b> Source: 6L16006-23 Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	1800	5.88	mg/kg dry	1410	261	109	80-120			
<b>Batch P6L1904 - *** DEFAULT PREP ***</b>										
<b>Blank (P6L1904-BLK1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P6L1904-BS1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	384	1.00	mg/kg wet	400		96.1	80-120			
<b>LCS Dup (P6L1904-BSD1)</b> Prepared: 12/19/16 Analyzed: 12/20/16										
Chloride	390	1.00	mg/kg wet	400		97.5	80-120	1.45	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

Report Approved By:



Date:

12/22/2016

Brent Barron, Laboratory Director/Technical Director

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

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

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

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

Fax: (432) 563-2213

**N1 8'**  
**7A06003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>223</b>	1.06	mg/kg dry	1	P7A0601	01/06/17	01/09/17	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P7A0904	01/09/17	01/09/17	% 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
<b>Batch P7A0601 - *** DEFAULT PREP ***</b>										
<b>Blank (P7A0601-BLK1)</b> Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P7A0601-BS1)</b> Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	442	1.00	mg/kg wet	400		111	80-120			
<b>LCS Dup (P7A0601-BSD1)</b> Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	415	1.00	mg/kg wet	400		104	80-120	6.43	20	
<b>Duplicate (P7A0601-DUP1)</b> Source: 7A06001-01 Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	53.1	1.18	mg/kg dry		53.6			0.971	20	
<b>Duplicate (P7A0601-DUP2)</b> Source: 7A06002-06 Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	10900	55.6	mg/kg dry		10500			3.83	20	
<b>Matrix Spike (P7A0601-MS1)</b> Source: 7A06001-01 Prepared: 01/06/17 Analyzed: 01/09/17										
Chloride	1200	1.18	mg/kg dry	1180	53.6	97.1	80-120			
<b>Batch P7A0904 - *** DEFAULT PREP ***</b>										
<b>Blank (P7A0904-BLK1)</b> Prepared & Analyzed: 01/09/17										
% Moisture	ND	0.1	%							
<b>Duplicate (P7A0904-DUP1)</b> Source: 7A06002-06 Prepared & Analyzed: 01/09/17										
% Moisture	11.0	0.1	%		10.0			9.52	20	
<b>Duplicate (P7A0904-DUP2)</b> Source: 7A09001-01 Prepared & Analyzed: 01/09/17										
% Moisture	2.0	0.1	%		1.0			66.7	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

Report Approved By:



Date:

1/10/2017

Brent Barron, Laboratory Director/Technical Director

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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: 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

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
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

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

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1950</b>	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	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

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

Fax: (432) 563-2213

**Bottom Hole 2 2'**  
**7H01006-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1310</b>	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	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

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

Fax: (432) 563-2213

**Bottom Hole 3 2'**  
**7H01006-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>877</b>	5.75	mg/kg dry	5	P7H0209	08/02/17	08/05/17	EPA 300.0	
<b>% Moisture</b>	<b>13.0</b>	0.1	%	1	P7H0203	08/02/17	08/02/17	ASTM D2216	

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Odessa TX, 79765

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

Fax: (432) 563-2213

**Bottom Hole 4 2'**  
**7H01006-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1990</b>	25.3	mg/kg dry	25	P7H0209	08/02/17	08/05/17	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	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

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

Fax: (432) 563-2213

**Bottom Hole 5 2'**  
**7H01006-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1800</b>	10.1	mg/kg dry	10	P7H0209	08/02/17	08/05/17	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	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.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7H0203 - *** DEFAULT PREP ***</b>										
<b>Blank (P7H0203-BLK1)</b> Prepared & Analyzed: 08/02/17										
% Moisture	ND	0.1	%							
<b>Duplicate (P7H0203-DUP1)</b> Source: 7H01005-01 Prepared & Analyzed: 08/02/17										
% Moisture	ND	0.1	%		ND				20	
<b>Duplicate (P7H0203-DUP2)</b> Source: 7H01008-02 Prepared & Analyzed: 08/02/17										
% Moisture	6.0	0.1	%		6.0			0.00	20	
<b>Batch P7H0209 - *** DEFAULT PREP ***</b>										
<b>Blank (P7H0209-BLK1)</b> Prepared: 08/02/17 Analyzed: 08/05/17										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P7H0209-BS1)</b> Prepared: 08/02/17 Analyzed: 08/05/17										
Chloride	405	1.00	mg/kg wet	400		101	80-120			
<b>LCS Dup (P7H0209-BSD1)</b> Prepared: 08/02/17 Analyzed: 08/05/17										
Chloride	366	1.00	mg/kg wet	400		91.4	80-120	10.1	20	
<b>Duplicate (P7H0209-DUP1)</b> Source: 7G31002-01 Prepared: 08/02/17 Analyzed: 08/05/17										
Chloride	7.32	1.10	mg/kg dry		8.07			9.71	20	
<b>Duplicate (P7H0209-DUP2)</b> Source: 7H01003-01 Prepared: 08/02/17 Analyzed: 08/05/17										
Chloride	799	1.22	mg/kg dry		823			3.00	20	
<b>Matrix Spike (P7H0209-MS1)</b> Source: 7G31002-01 Prepared: 08/02/17 Analyzed: 08/05/17										
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

Report Approved By:



Date:

8/7/2017

Brent Barron, Laboratory Director/Technical Director

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