

# Site Investigation Report & Corrective Action Plan

**Onsurez #2**

**Eddy County, New Mexico**



*Prepared for:*

**Rockcliff Energy LLC**

**1301 McKinney Street**

**Suite 1300**

**Houston, Texas 77010**

*Prepared by:*



**Kane Environmental Engineering Inc.**

**8816 Big View Drive**

**Austin, Texas 78730**

**Project: 17-389**

**August 2017**

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# Site Investigation Summary

## Introduction:

On June 3<sup>rd</sup>, 2017 approximately 25 barrels of crude oil and produced water were released as a result of a leaking stuffing box. The release occurred during a rain event and impacted the area surrounding the well (**Figure 1**). Approximately 20 barrels were recovered. The impacted area was estimated to be about 17,955 square feet (**Appendix A**). A copy of the C-141 is provided as (**Figure 2**).

The Onsurez #2 well is located in rural Eddy County, near Loving New Mexico. Groundwater, based on information provided the New Mexico Office of the State Engineer (**Appendix B**) is likely to be encountered at a depth of approximately 28 ft below ground surface (bgs). The distance to the nearest surface water (Pecos River) is approximately 792 feet, east of the facility.

Rockcliff Operating New Mexico, LLC (**Rockcliff**) has remediated the area from the original well leak that had occurred as well as removed soil contamination from past operations. After a week of excavation and a total of more than 2,850 cubic yards of soil was removed from the location. A comprehensive sampling program was conducted to fully delineate the excavated area. A summary of the results along with the NMOCD cleanup levels are provided in Table 2. Based on these results the remaining impacted soils are likely a result of previously unreported releases by the former operator and are not associated with the current release. The concentrations observed in the sidewall samples collected at midpoints from the surface to the bottom of each excavation, along with samples from the bottom of each excavation, suggest that these impacts are not related to this current release. It is very unlikely that the contaminants associated with this current release could have migrated to these depths in such a short time.

## Site Evaluation Summary

1. Representatives of Kane Environmental (Kane) completed a New Mexico One Call (NM811) to verify clearance any utilities. Rockcliff operating personnel verified that these locations are clear of any underground equipment.
2. Kane personnel, Nathan Harvey and Alan Kane, P.E. began the reviewing the excavated area 1:00 pm on August 7<sup>th</sup>, 2017. Photographs were taken of the excavated area as well as for sample documentation. (**Appendix A**).
3. Kane personnel identified 14 locations to collect samples (Sample ES 1- ES 14) to adequately review the excavated area (**Figure 1**). Soils were collected at various

depths as depicted in **Figure 1**, as well as from each sidewall. The samples were placed in sealable plastic bags, allowed to reach temperature equilibrium and then screened for hydrocarbons using a MiniRae 2000 photoionization detector (PID). The samples were also screened for chlorides using a Spectrum Field Scout electrical conductivity (EC) meter. A composite background sample was also collected during a previous visit, from the surface to a depth of 3 ft (bgs) from an area that based on historical aerial photographs has not been impacted. This soil was also screened using the PID and EC meter.

4. Kane personnel used an auger to collect each sample. After screening, each sample was then placed in appropriate containers, properly labeled, then on ice in a cooler and delivered to the Cardinal Laboratory located in Hobbs, New Mexico for analysis. All samples were analyzed for the following constituents:

Benzene, Toluene, Ethylbenzene and mixed isomer Xylenes (BTEX) - EPA Method 8021.

Total Petroleum Hydrocarbons; Gasoline Range Organics, Diesel Range Organics, and Oil Range Organics – (EPA Method 8105). Chlorides – (EPA Method 300 or equivalent).

5. The boreholes were backfilled.
6. A summary of the analytical results for each sample is provided in (**Table 1**).

## Corrective Action Plan

Based on the information obtained from the follow up site investigation including the following;

- New Mexico State Engineers' Water Well information suggests that the depth to ground water in this area can be expected at depth of 28 ft (bgs).
- Distance to surface water evaluation - The Pecos River is approximately 792 feet east of the site.
- The analytical results of the soil samples along with the water sample from the Pecos River.
- Observations made at the site regarding the size of the impacted area.

Due to the limited information regarding the numerous historical spills that have occurred during Vanguard's past operations at this well, it is very difficult to effectively delineate

and pinpoint each instance where the soil will be over the 250 ppm chloride limit. This issue is further exacerbated by the repeated rainfall events that have occurred over the years as well as during the cleanup process. It is unlikely that all of the soil that is above 250 ppm chlorides will be able to be completely removed. As a result, the suggested corrective action plan includes the following:

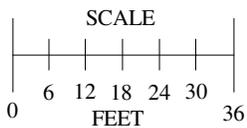
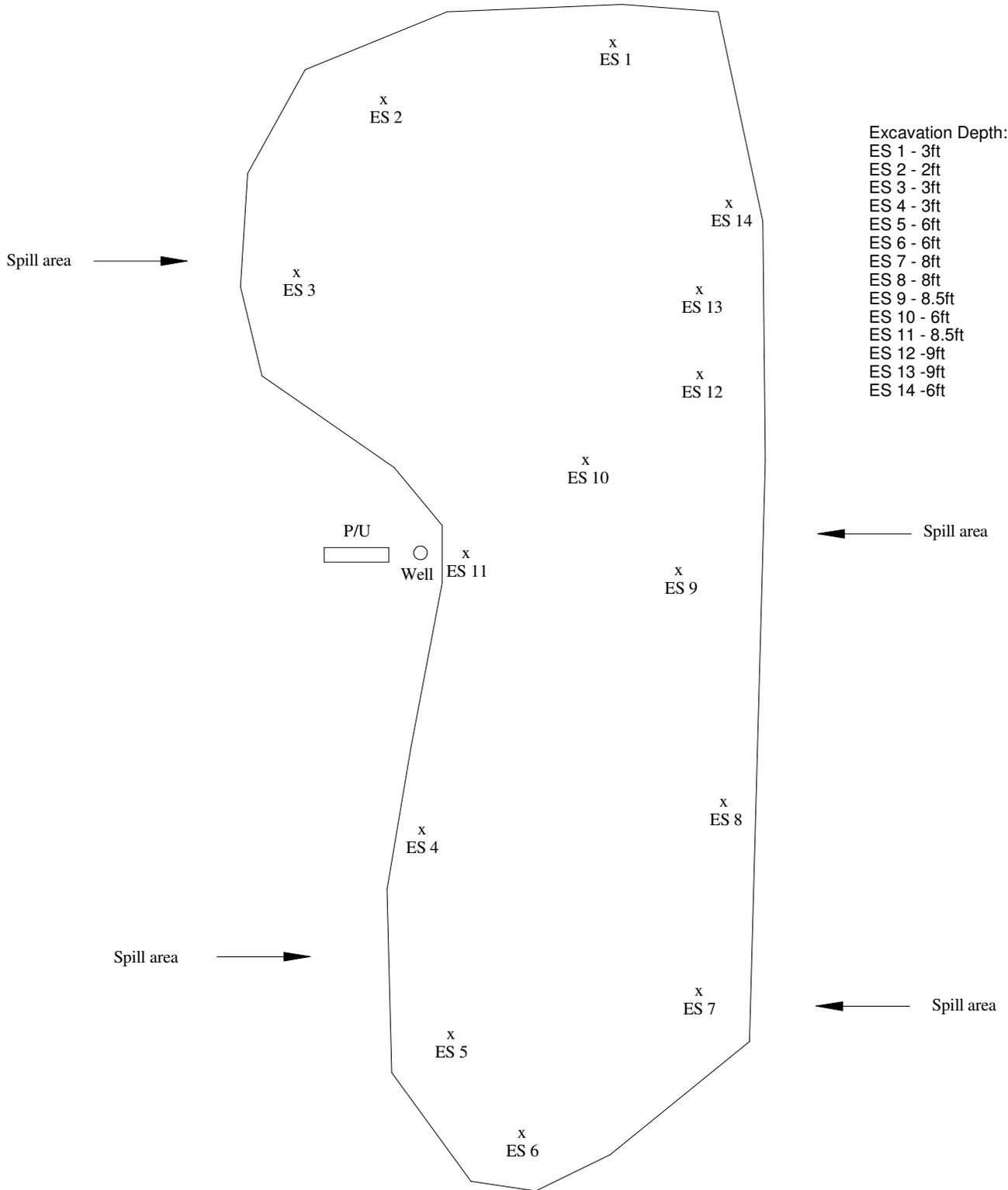
- A 14 mm poly liner will be installed to prevent the possibility of any future spills impacting the area, as well as prevent any migration of chlorides into clean soil.
- In addition a stuffing box leak prevention system will be installed as a precaution to ensure the well will shut off, in the event of a well head leak (**Appendix D, Wellhead Leak Prevention System**).

Photographs will be taken of the excavated areas, installed poly liner, clean soil being backfilled, as well as the installed stuffing box leak prevention system.

A closure report will be prepared and submitted detailing the corrective actions taken as well as to serve as documentation that the proposed actions have been completed.

**FIGURE 1**

**Soil Sample Diagram**



Rockcliff Energy, LLC  
Houston, Texas

Onsurez #2

Eddy County  
New Mexico

**FIGURE 2**

**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 April 3, 2017

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: <b>Rockcliff Operating New Mexico, LLC</b>	Contact: <b>Nicholas Koch</b>
Address: <b>1301 McKinney St. Suite 1300</b>	Telephone No. <b>(713)351-0549</b>
Facility Name: <b>Onsurez #2</b>	Facility Type: <b>Well</b>

Surface Owner: <b>Tony Onsurez</b>	Mineral Owner: <b>Tony Onsurez</b>	API No.: <b>30-015-26472</b>
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**LOCATION OF RELEASE**

Unit Letter: <b>F</b>	Section: <b>11</b>	Township: <b>23S</b>	Range: <b>28E</b>	Feet from the: <b>1980</b>	North/South Line: <b>NORTH</b>	Feet from the: <b>1980</b>	East/West Line: <b>WEST</b>	County: <b>Eddy</b>
-----------------------	--------------------	----------------------	-------------------	----------------------------	--------------------------------	----------------------------	-----------------------------	---------------------

Latitude: 32.3219452 Longitude: -104.0600967 NAD83

**NATURE OF RELEASE**

Type of Release: <b>Produced Water &amp; Oil</b>	Volume of Release: <b>25 bbl</b>	Volume Recovered: <b>25 bbl</b>
Source of Release: <b>Flowline to separator</b>	Date and Hour of Occurrence: <b>6/3/17 7:00a</b>	Date and Hour of Discovery: <b>6/3/17 9:30a</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>N/A</b>	
By Whom? <b>N/A</b>	Date and Hour: <b>N/A</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>N/A</b>	

If a Watercourse was Impacted, Describe Fully.\*  
**N/A**

Describe Cause of Problem and Remedial Action Taken.\*

**Cause:** During heavy rain, high pressure on the tubing caused a release through the polish rod and packing. Approx. 25 bbl of produced water and oil was released onto the location and immediate surrounding area.  
**Action:** Rockcliff Operating New Mexico, LLC representative immediately shut well in, changed out packing and visually inspected stuffing box to determine if repairs were needed before returning well to production. Proceeded to clean up affected area.

Describe Area Affected and Cleanup Action Taken.\*

**Much of the produced fluid was contained on location; however, a small amount of the land owner's Alfalfa, located immediately to the West of the location, was affected. A vac truck was called to remove oil and excess rain water deposited by the storm. Affected crops were removed. Surface clean-up was done. Ground samples were collected from around the location by Kane Environmental, reports pending.**

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.

		<b><u>OIL CONSERVATION DIVISION</u></b>	
Signature:	Approved by Environmental Specialist:		
Printed Name: Nicholas Koch			
Title: Vice President - Operations	Approval Date:	Expiration Date:	
E-mail Address: nkoch@rockcliffenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone: (281) 351-0549		

\* Attach Additional Sheets If Necessary

**TABLE 1**  
**Analytical Results Summary**

**ONSUREZ**

Sample	Benzene	Touene	Ethylbenzene	Xylenes	BTEX	Chlorides	TPH-GRO	TPH-DRO	TPH-ORO
NMOCD Cleanup Limit	10 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	250 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
ES1-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	352	<10.0	59.4	24.8
ES1-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0
ES2-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	208	<10.0	<10.0	<10.0
ES2-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	928	<10.0	<10.0	<10.0
ES3-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	5100	<10.0	159	42.7
ES3-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	3680	<10.0	<10.0	<10.0
ES4-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	3200	<10.0	666	171
ES4-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	2640	<10.0	768	197
ES5-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	1100	<10.0	<10.0	11.5
ES5-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	1230	<10.0	12.4	<10.0
ES6-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	1460	<10.0	75.3	20.5
ES6-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	1600	<10.0	<10.0	<10.0
ES7-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	1800	<10.0	<10.0	<10.0
ES7-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	272	<10.0	<10.0	<10.0
ES8-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	592	<10.0	<10.0	<10.0
ES8-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	96	<10.0	<10.0	<10.0
ES9-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	224	<10.0	<10.0	<10.0
ES9-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0
ES10-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	2280	<10.0	<10.0	<10.0
ES10-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	832	<10.0	<10.0	<10.0
ES11-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	7060	<10.0	<10.0	<10.0
ES11-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	512	<10.0	<10.0	<10.0
ES12-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	992	<10.0	<10.0	<10.0
ES12-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0
ES13-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	688	<10.0	<10.0	<10.0
ES13-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	2160	<10.0	<10.0	<10.0
ES14-SIDEWALL	<0.050	<0.050	<0.050	<0.150	<0.300	48	<10.0	171	54.7
ES14-BOTTOM	<0.050	<0.050	<0.050	<0.150	<0.300	368	<10.0	101	34.7

## **APPENDICES**

## **APPENDIX A**

### **Photographs**





## **APPENDIX B**

### **Water Well Information**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 00315</a>	C	ED	3	1	3	11	23S	28E	587973	3575995*		100	45	55
<a href="#">C 00512</a>	C	ED	4	1	1	11	23S	28E	588188	3576775		175	15	160
<a href="#">C 00512 CLW198323</a>	O	ED	4	1	1	11	23S	28E	588167	3576806*		100		
<a href="#">C 00512 EXPL</a>	O	ED			1	11	23S	28E	588272	3576703*		200	16	184
<a href="#">C 00512 S</a>	C	ED	4	1	1	11	23S	28E	588167	3576806*		100		
<a href="#">C 00608</a>	C	ED	3	3	1	11	23S	28E	587970	3576401*		200		
<a href="#">C 03469 POD1</a>	C	ED	3	4	3	11	23S	28E	588374	3575538		68	38	30
<a href="#">C 03469 POD2</a>	C	ED	3	4	3	11	23S	28E	588382	3575506		48		
<a href="#">C 03469 POD3</a>	C	ED	3	4	3	11	23S	28E	588381	3575538		47		

Average Depth to Water: 28 feet  
Minimum Depth: 15 feet  
Maximum Depth: 45 feet

**Record Count:** 9

**Basin/County Search:**

County: Eddy

**PLSS Search:**

Section(s): 11

Township: 23S

Range: 28E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/6/17 7:10 AM

WATER COLUMN/ AVERAGE DEPTH  
TO WATER

## **APPENDIX C**

### **Analytical Data**

August 11, 2017

ALAN KANE

KANE ENVIROMENTAL

8816 BIG VIEW DRIVE

AUSTIN, TX 78730

RE: ONSUREZ

Enclosed are the results of analyses for samples received by the laboratory on 08/08/17 16:25.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES1 SW (H702076-01)**

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	08/10/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>352</b>	16.0	08/09/2017	ND	464	116	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	08/10/2017	ND	212	106	200	1.35	
<b>DRO &gt;C10-C28</b>	<b>59.4</b>	10.0	08/10/2017	ND	226	113	200	4.30	
<b>EXT DRO &gt;C28-C36</b>	<b>24.8</b>	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 88.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.2 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES1 BTM (H702076-02)**

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	08/10/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	08/09/2017	ND	464	116	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	08/10/2017	ND	212	106	200	1.35	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	226	113	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 78.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.9 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES2 SW (H702076-03)**

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	08/10/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/09/2017	ND	464	116	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	08/10/2017	ND	212	106	200	1.35	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	226	113	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 86.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.9 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES2 BTM (H702076-04)**

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	08/10/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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>928</b>	16.0	08/09/2017	ND	464	116	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	08/10/2017	ND	212	106	200	1.35	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	226	113	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 79.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES3 SW (H702076-05)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5100</b>	16.0	08/09/2017	ND	448	112	400	3.64	QM-07

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	08/10/2017	ND	212	106	200	1.35	
<b>DRO &gt;C10-C28</b>	<b>159</b>	10.0	08/10/2017	ND	226	113	200	4.30	
<b>EXT DRO &gt;C28-C36</b>	<b>42.7</b>	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 91.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES3 BTM (H702076-06)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	212	106	200	1.35		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	226	113	200	4.30		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 86.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES4 SW (H702076-07)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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>3200</b>	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
<b>DRO &gt;C10-C28</b>	<b>666</b>	10.0	08/10/2017	ND	216	108	200	9.63	QM-07	
<b>EXT DRO &gt;C28-C36</b>	<b>171</b>	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 73.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES4 BTM (H702076-08)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2640</b>	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
<b>DRO &gt;C10-C28</b>	<b>768</b>	10.0	08/10/2017	ND	216	108	200	9.63		
<b>EXT DRO &gt;C28-C36</b>	<b>197</b>	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 75.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES5 SW (H702076-09)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1100</b>	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
<b>EXT DRO &gt;C28-C36</b>	<b>11.5</b>	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 81.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES5 BTM (H702076-10)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1230</b>	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
<b>DRO &gt;C10-C28</b>	<b>12.4</b>	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 82.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES6 SW (H702076-11)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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>1460</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
<b>DRO &gt;C10-C28</b>	<b>75.3</b>	10.0	08/10/2017	ND	216	108	200	9.63	
<b>EXT DRO &gt;C28-C36</b>	<b>20.5</b>	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 85.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES6 BTM (H702076-12)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52		
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 92.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES7 SW (H702076-13)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES7 BTM (H702076-14)**

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	08/11/2017	ND	1.77	88.3	2.00	1.52	
Toluene*	<0.050	0.050	08/11/2017	ND	1.64	82.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.74	86.9	2.00	0.628	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.23	87.1	6.00	0.236	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 85.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES8 SW (H702076-15)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850		
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>592</b>	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 96.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES8 BTM (H702076-16)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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>96.0</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 95.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES9 SW (H702076-17)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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>224</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 89.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES9 BTM (H702076-18)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES10 SW (H702076-19)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2280</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 86.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES10 BTM (H702076-20)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850		
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 96.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES11 SW (H702076-21)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7060</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.2 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES11 BTM (H702076-22)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850		
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 114 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES12 SW (H702076-23)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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>992</b>	16.0	08/09/2017	ND	448	112	400	3.64	

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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 91.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES12 BTM (H702076-24)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850		
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384		
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287		
Total BTEX	<0.300	0.300	08/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/09/2017	ND	448	112	400	3.64		

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	08/10/2017	ND	210	105	200	7.59		
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63		
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND						

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES13 SW (H702076-25)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>688</b>	16.0	08/09/2017	ND	448	112	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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 92.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES13 BTM (H702076-26)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2160</b>	16.0	08/09/2017	ND	448	112	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	08/10/2017	ND	210	105	200	7.59	
DRO >C10-C28	<10.0	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	08/10/2017	ND					

Surrogate: 1-Chlorooctane 105 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES14 SW (H702076-27)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/09/2017	ND	448	112	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	08/11/2017	ND	202	101	200	7.53	
<b>DRO &gt;C10-C28</b>	<b>171</b>	10.0	08/11/2017	ND	206	103	200	7.61	
<b>EXT DRO &gt;C28-C36</b>	<b>54.7</b>	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 94.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 KANE ENVIROMENTAL  
 ALAN KANE  
 8816 BIG VIEW DRIVE  
 AUSTIN TX, 78730  
 Fax To:

 Received: 08/08/2017  
 Reported: 08/11/2017  
 Project Name: ONSUREZ  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES14 BTM (H702076-28)**

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	08/09/2017	ND	448	112	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	08/11/2017	ND	202	101	200	7.53	
<b>DRO &gt;C10-C28</b>	<b>101</b>	10.0	08/11/2017	ND	206	103	200	7.61	
<b>EXT DRO &gt;C28-C36</b>	<b>34.7</b>	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 91.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.3 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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







**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: <u>Kare Environmental Engineering</u> Project Manager: <u>Alan Kare</u> Address: <u>8816 Big View Drive</u> City: <u>Austin</u> State: <u>TX</u> zip: <u>78730</u> Phone #: <u>281 370 6580</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Gnsaretz</u> Project Location: _____ Sampler Name: <u>Nathan Harvey</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Kare Env</u> Attn: _____ Address: <u>8816 Big View</u> City: <u>Austin</u> State: <u>TX</u> zip: <u>78730</u> Phone #: <u>281 370 6580</u> Fax #: _____	
Lab I.D. <u>H102076</u> <u>ES6</u> <u>ES6 SW</u> <u>ES6 B1M</u> <u>ES7 SW</u> <u>ES8 B1M</u> <u>ES8 SW</u> <u>ES8 B1M</u> <u>ES9 SW</u> <u>ES9 B1M</u> <u>ES10 SW</u> <u>ES10 B1M</u>	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME	MATRIX PRESERV SAMPLING	BTEX 8021 B Chloride 4500 TPH 8015 A Extended
11 12 13 14 15 16 17 18 19 20	9 9 9 9 9 9 9 9 9 9	1 1 1 1 1 1 1 1 1 1	8-7 5:00 5:15 5:30 5:45 6:00 6:15 6:30 6:45 7:00 7:15

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Nathan Harvey Date: 8-8 Received By: Jawana Clark Date: 8-8-17  
 Time: \_\_\_\_\_ Time: 4:25

Delivered By: (Circle One) UPS - Bus - Other: Consolidated 6552 Sample Condition:  Cool  Intact  Yes  No  Yes  No  No  
 CHECKED BY: JD #75

REMARKS: Email Alan Kare @ccomcast.net

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



# 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: Kane Environmental Sys.

Project Manager: Alan Kane

Address: 8816 Big View Dr

City: Austin TX State: TX zip: 78730

Phone #: 281 370 6580 Fax #:

Project #: Project Owner:

Project Name: Onsw/ez

Project Location:

Sampler Name: Nathan Harvey

FOR LAB USE ONLY

P.O. #:

Company: Kane Env.

Attn:

Address: 8816 Big View

City: Austin State: TX zip: 78730

Phone #: 281 370 6580 Fax #:

PRESERV/

SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV/	SAMPLING	DATE	TIME	REMARKS
H102076	21	SW	9	GROUNDWATER			8-7	730	BTEX 8021 B
	22	BTM	9	WASTEWATER				735	Chloride 4500
	23	SW	9	SOIL				740	
	24	BTM	9	OIL				745	
	25	SW	9	SLUDGE				750	
	26	BTM	9	OTHER :				755	
	27	SW	9	ACID/BASE:				800	
	28	BTM	9	ICE / COOL				805	
				OTHER :					

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Relinquished By: Nathan Harvey

Received By: [Signature]

Phone Result:  Yes  No  Add'l Phone #:   
 Fax Result:  Yes  No  Add'l Fax #:   
 REMARKS: Alan J Kane @ comcast.net

Delivered By: (Circle One) UPS - Bus - Other:  UPS  Bus  Other

Time: 4:25 Date: 8-8

Sample Condition:  Cool  Intact  Yes  No

Checked By: [Signature]

## **APPENDIX D**

### **Wellhead Leak Prevention System**



US Patent 8,342,237  
 US Patent Pending  
 800-966-1265  
 pollutioncontrolcorp.com

*The Trapper™ F8 PLUS & F8 MAX* are not pressurized vessels.  
 Instructions must be followed for a proper installation.

\*Can be used for high temperature wells

## INSTALLATION INSTRUCTIONS FOR

# *The Trapper™ F8 PLUS & F8 MAX\**

**Tools required:** Ratchet with 9/16" socket, crescent/pipe wrench, 3/32" Allen wrench (included), wire brush, cleaner, rags.



30 lbs.

*The Trapper™ F8 PLUS*

New Metal Flange Seal  
 Non-corrosive tub



41 lbs.

*The Trapper™ F8 MAX*

New Metal Flange Seal  
 Full Metal tub

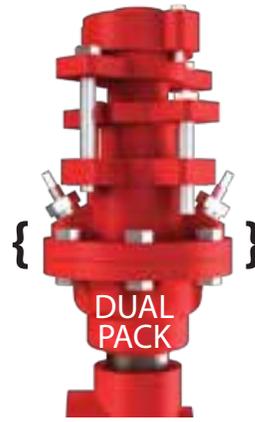
## STEP 1 Clean Stuffing Box



Big Stuff Dual Pack



Big Stuff Dual Pack with  
 Check Valve



Dual Pack Stuffing Box



Pollution Control Stuffing Box

Clean this { } region of stuffing box with wire brush, solvent, and rags. Wipe bolts dry for step 2



\*Can also be used for high temperature wells

INSTALLATION INSTRUCTIONS FOR

*The Trapper™ F8 PLUS & F8 MAX\**

*The Trapper™ F8 PLUS & F8 MAX* are not pressurized vessels. Instructions must be followed for a proper installation.

US Patent 8,342,237  
US Patent Pending

800-966-1265  
pollutioncontrolcorp.com

## STEP 2 Determine Your Stuffing Box



Big Stuff Dual Pack



Big Stuff Dual Pack with Check Valve



Dual Pack Stuffing Box



Pollution Control Stuffing Box



If using Big Stuff Dual Pack, or Big Stuff Dual Pack with check valve, proceed to **STEP 3 Break Tabs**

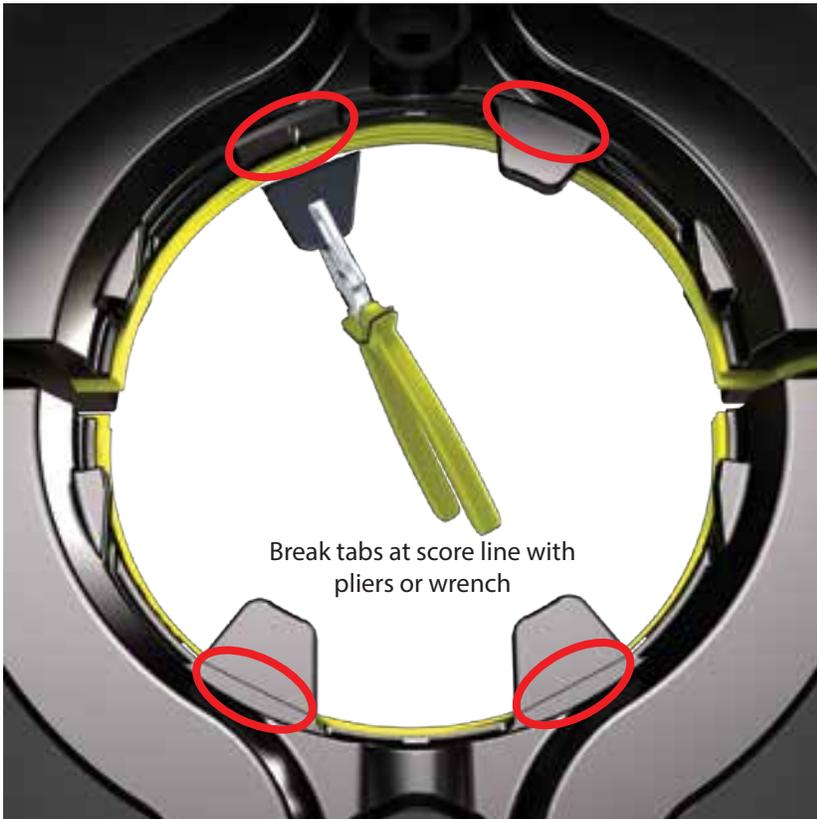


If using Dual Pack or Pollution Control Stuffing Box, proceed to

**STEP 6 Install Trapper Tub**



## STEP 3 Break Tabs



**WARNING:** Only break tabs if using a Big Stuff Dual Pack, or Big Stuff Dual Pack with check valve stuffing box.



INSTALLATION INSTRUCTIONS FOR

*The Trapper™ F8 PLUS & F8 MAX\**

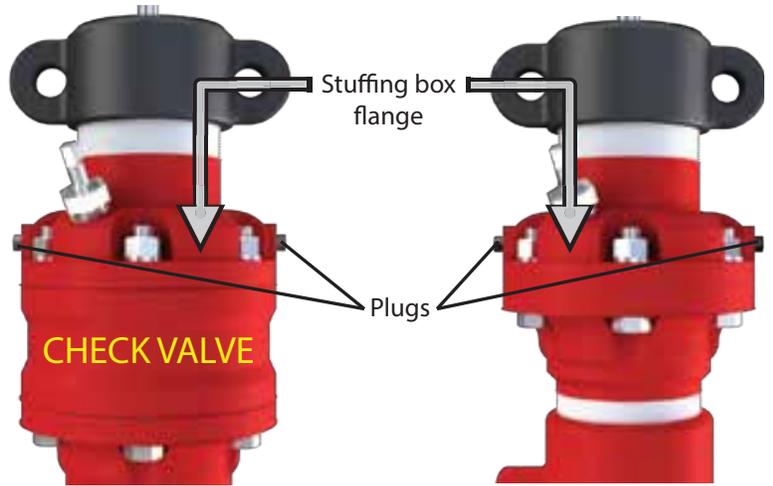
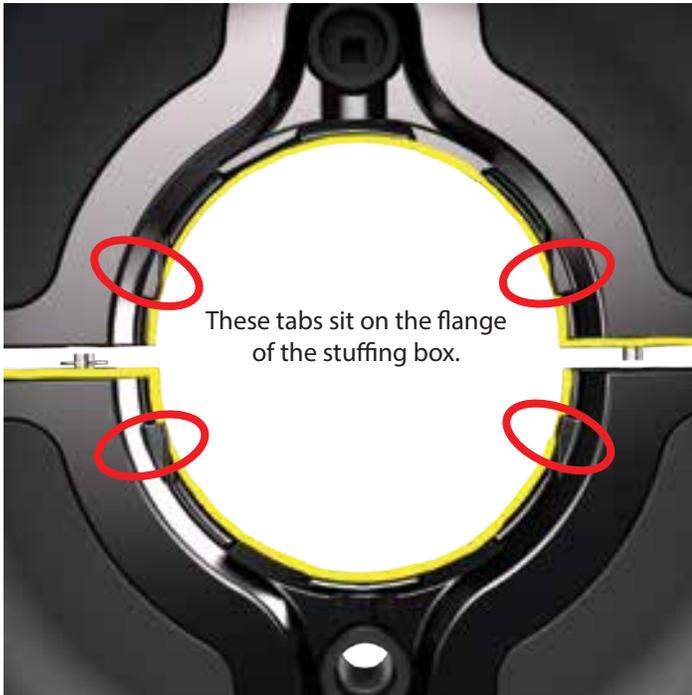
*The Trapper™ F8 PLUS & F8 MAX* are not pressurized vessels. Instructions must be followed for a proper installation.

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\*Can also be used for high temperature wells

## STEP 4 Check Tab Position

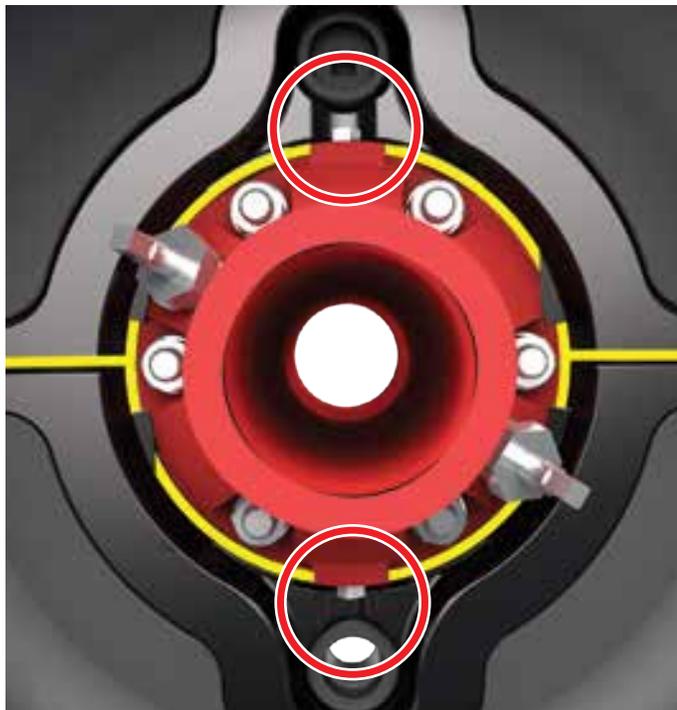


**WARNING:** Only break tabs if using a Big Stuff Dual Pack, or Big Stuff Dual Pack with check valve stuffing box.

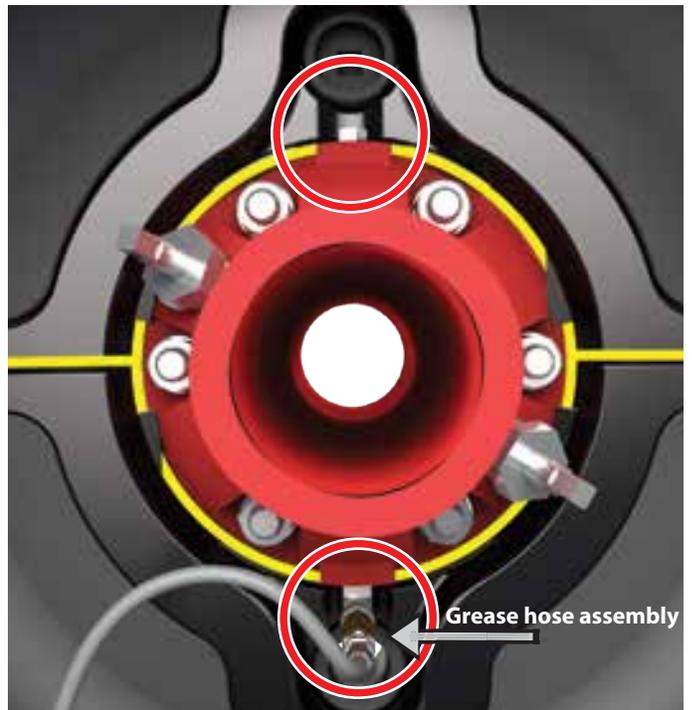
**NOTE:** If installing optional grease hose, be sure to install hose in stuffing box before Trapper tub.

## STEP 5 Plugs at Drain Areas

▶ Refer to Step 6 for additional information on installing the Trapper tub



Install tub with plugs at Trapper drain position.

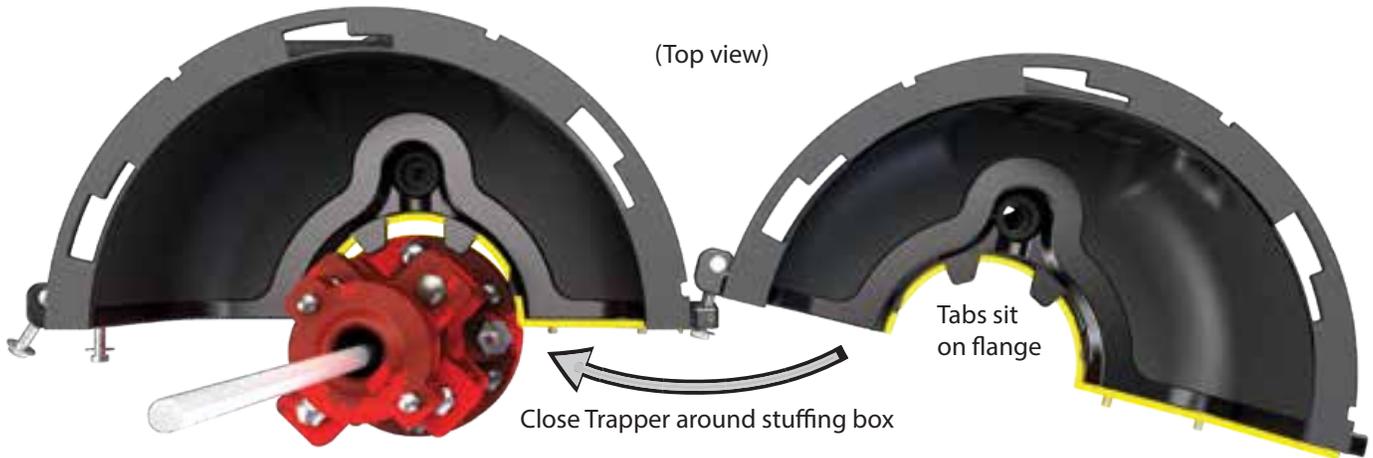


If using grease hose assembly, hose and plug must line up at the drain.

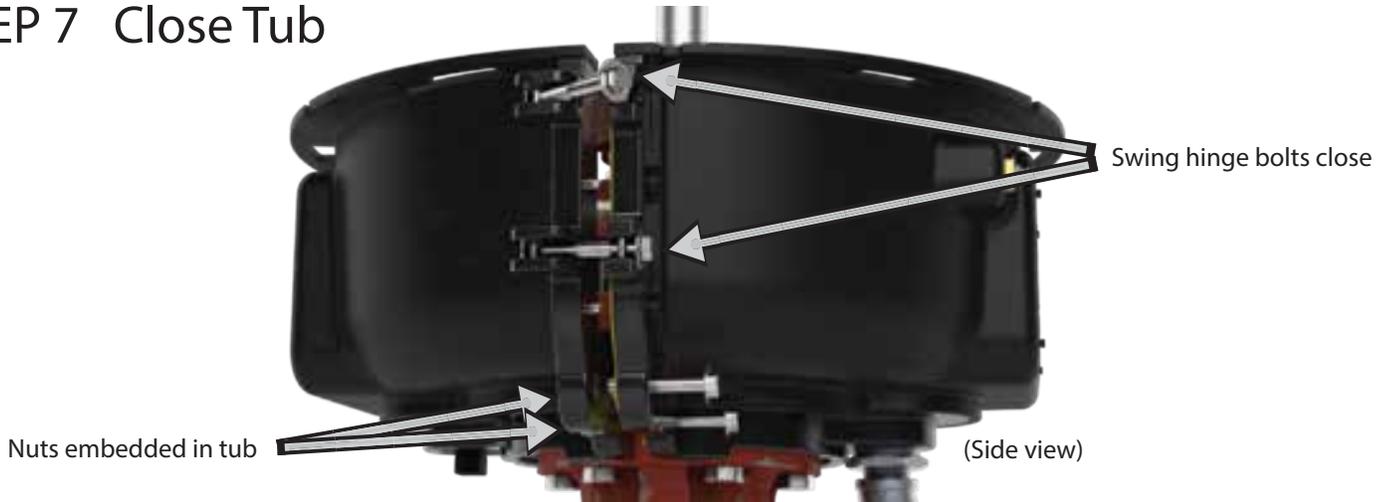
Go to **STEP 6** of Installation Instructions

\*Can also be used for high temperature wells

## STEP 6 Install Trapper Tub



## STEP 7 Close Tub



## STEP 8 Bolt Tub



### Bolts Included

8 @ 3/8" - 16 x 2 1/4" bolts

Starting at bolts 4 & 5, tighten bolts so Trapper halves come together evenly, working up toward the top bolts.



INSTALLATION INSTRUCTIONS FOR

*The Trapper™ F8 PLUS & F8 MAX \**

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\*Can also be used for high temperature wells

## Tabs Sit on Flange



## Optional Grease Zerk Installation. **\*Be safe. Do not use power drill in restricted areas.**

**\*Important note - this grease hose assembly has a maximum pressure rating of 1000 psi.**



(A)

Drill 5/8" hole



(B)

Screw grease zerk into Trapper tub and stuffing box



(C)

Grease zerk installed

## NOTE Trapper Reinstallation After Workover Rig



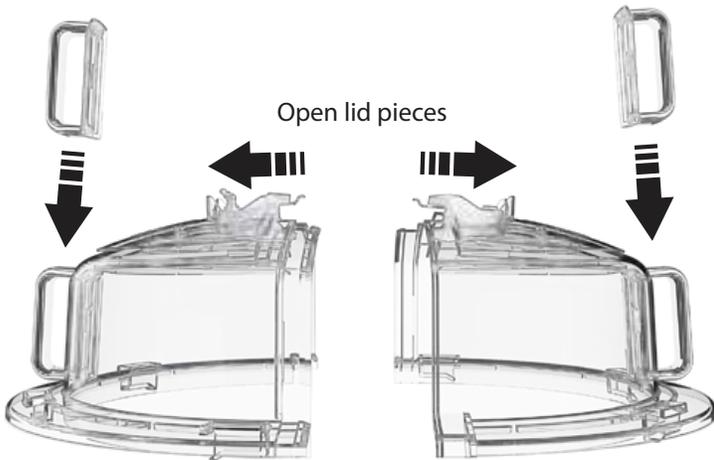
Regrease after workover rig

The gasket comes pre-greased at factory and is ready for installation.

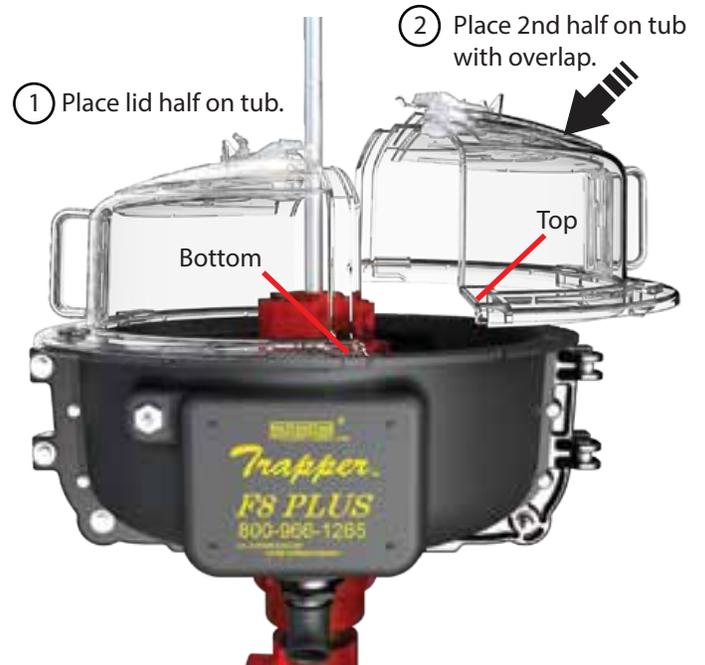
For Trapper reinstallation after workover is completed, apply a thin bead of grease to the gasket and wipe with finger.

\*Can also be used for high temperature wells

## STEP 9 Attach Handles



## STEP 10 Attach Lid



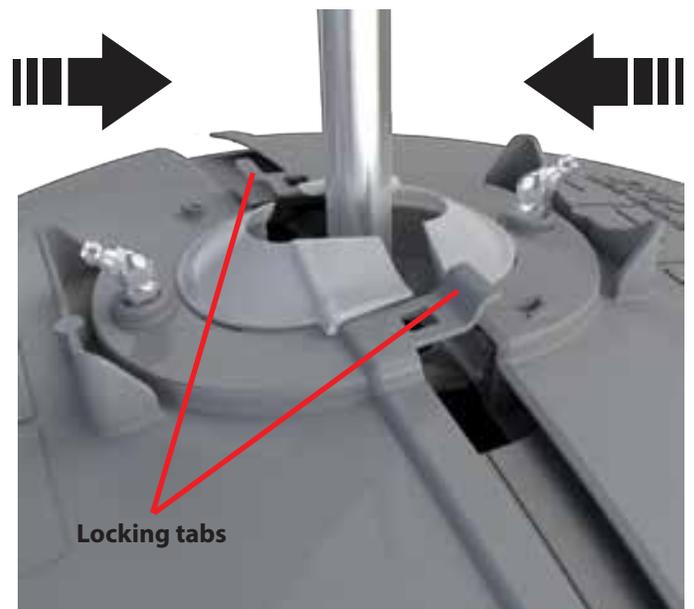
Overlap top and bottom labels correctly  
(labels are reversed on opposite side of lid).

## STEP 11 Turn Lid to Lock



Bring lid down over base holes. Turn lid clockwise to lock in place.

## STEP 12 Lock Self Centering Lid



Push lid together around polish rod so tabs lock.  
(lid shown as gray for illustration)



\*Can also be used for high temperature wells

INSTALLATION INSTRUCTIONS FOR

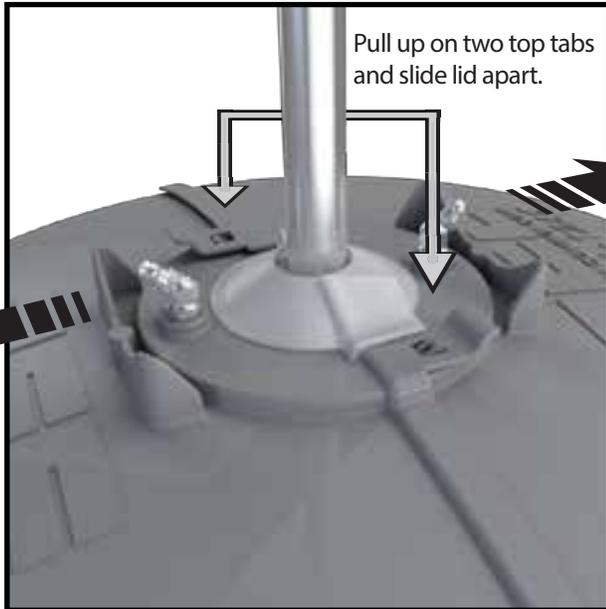
# The Trapper™ F8 PLUS & F8 MAX \*

The Trapper™ F8 PLUS & F8 MAX are not pressurized vessels. Instructions must be followed for a proper installation.

US Patent 8,342,237  
US Patent Pending

800-966-1265  
pollutioncontrolcorp.com

## Removing Lid



Pull up on two top tabs and slide lid apart.

(lid shown as gray for illustration)



Turn counterclockwise and lift



Grease zerks and grease gun shown

3"



7"



11"



14"



4 Lid sizes available. Lid fits all size polish rods and liners.

## STEP 13 Two Configuration Options

### #1 Drain & Kill Switch

### #2 Trapper Container & Kill Switch



Wires must exit down

Use wrench to tighten drain valve

Valve is used in both options



1 1/2" hose and clamps available at supply store



Hose barb

Remove plug from back bottom side of Trapper and insert hose barb. Connect hose with hose clamps



Optional kill (float) switch

40 Gallon Container

Secure container to pumping unit fence



\*Can also be used for high temperature wells

INSTALLATION INSTRUCTIONS FOR  
*The Trapper™ F8 PLUS & F8 MAX\**  
*The Trapper™ F8 PLUS & F8 MAX* are not pressurized vessels.  
Instructions must be followed for a proper installation.

US Patent 8,342,237  
US Patent Pending

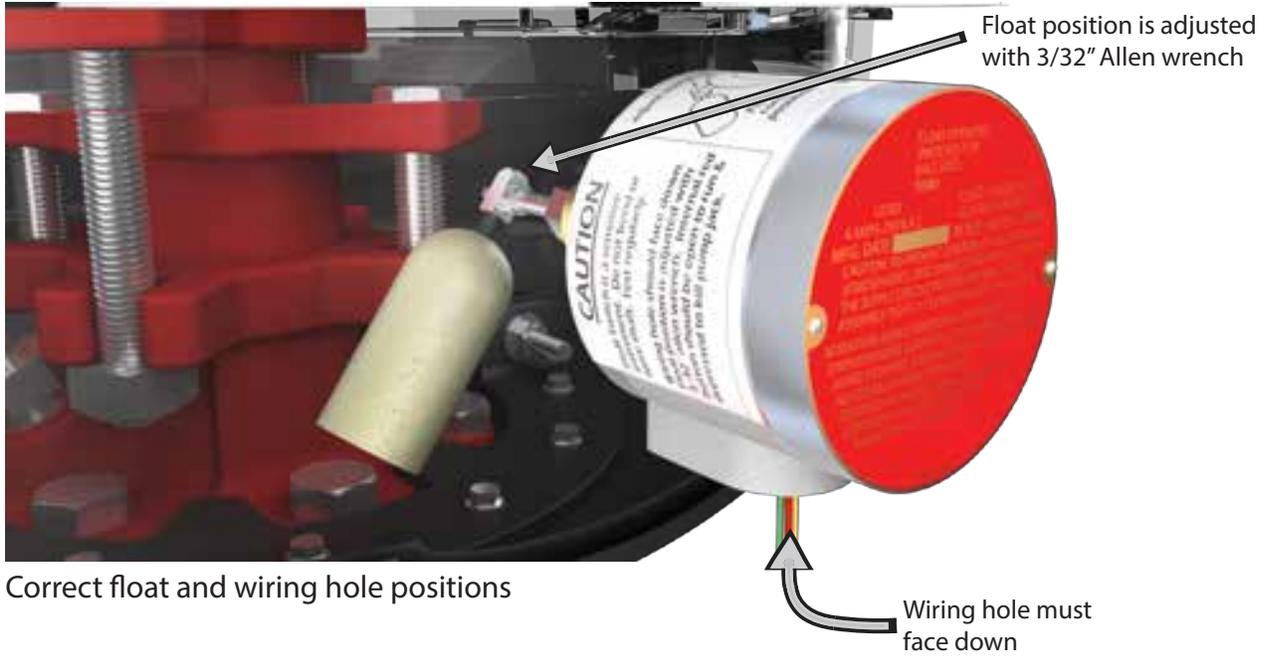
800-966-1265  
pollutioncontrolcorp.com

## STEP 14 Kill (float) Switch Installation - details for certified electrician

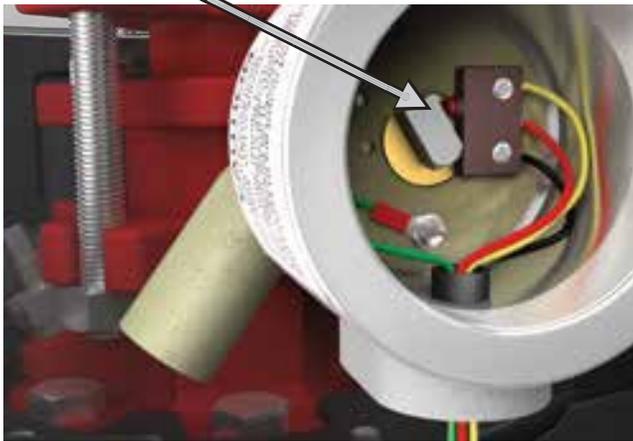
### CAUTION

Kill (float) switch is a sensitive instrument. Do not bend or force shaft. Test regularly.  
Internal red button should be open to run and depressed to kill pump jack.

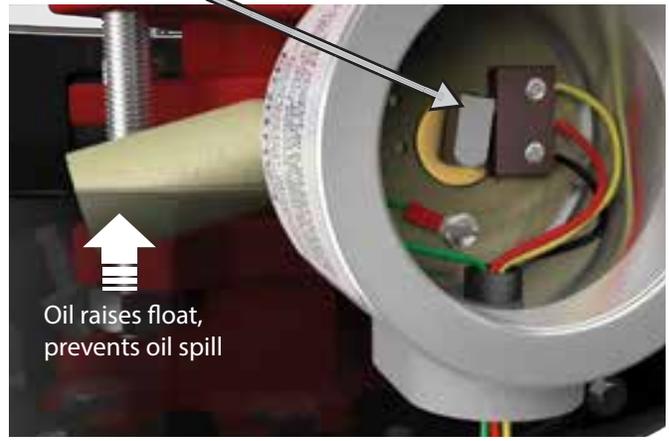
*Trappers are not pressurized containments. For colder climates, antifreeze can be added to prevent freezing of fluid*



Internal red button is open to run pump jack



Internal red button is depressed to kill pump jack



### CAUTION

Kill (float) switch is a sensitive instrument. Do not bend or force shaft. Test regularly.

The kill (float) switch must be installed by a licensed / certified electrician in accordance with local codes.

\* Disclaimer- It is the operator's responsibility to ensure that kill (float) switch specifications are met & regular testing is performed.