

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 3rd, 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 7th, 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

Spill area →

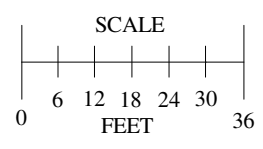
Excavation Depth:
 ES 1 - 3ft
 ES 2 - 2ft
 ES 3 - 3ft
 ES 4 - 3ft
 ES 5 - 6ft
 ES 6 - 6ft
 ES 7 - 8ft
 ES 8 - 8ft
 ES 9 - 8.5ft
 ES 10 - 6ft
 ES 11 - 8.5ft
 ES 12 - 9ft
 ES 13 - 9ft
 ES 14 - 6ft

← Spill area

Spill area →

← Spill area

P/U
 Well



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

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

Form C-141
Revised April 3, 2017

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: Rockcliff Operating New Mexico, LLC	Contact: Nicholas Koch	
Address: 1301 McKinney St. Suite 1300	Telephone No. (713)351-0549	
Facility Name: Onsurez #2	Facility Type: Well	
Surface Owner: Tony Onsurez	Mineral Owner: Tony Onsurez	API No.: 30-015-26472

LOCATION OF RELEASE

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

Latitude: 32.3219452 Longitude: -104.0600967 NAD83

NATURE OF RELEASE

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

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.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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.

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
Chloride	352	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	59.4	10.0	08/10/2017	ND	226	113	200	4.30	
EXT DRO >C28-C36	24.8	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
Chloride	160	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

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 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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	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
Chloride	5100	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	
DRO >C10-C28	159	10.0	08/10/2017	ND	226	113	200	4.30	
EXT DRO >C28-C36	42.7	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)

BTX 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 BTX	<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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	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	666	10.0	08/10/2017	ND	216	108	200	9.63	QM-07
EXT DRO >C28-C36	171	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)

BTX 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 BTX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2640	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	768	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	197	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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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
Chloride	1100	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	11.5	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
Chloride	1230	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	12.4	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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	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	75.3	10.0	08/10/2017	ND	216	108	200	9.63	
EXT DRO >C28-C36	20.5	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)

BTX 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 BTX	<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)

BTX 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 BTX	<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)

BTX 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 BTX	<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)

BTX 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 BTX	<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	592	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)

BTX 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 BTX	<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	96.0	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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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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	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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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)

BTX 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 BTX	<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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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
Chloride	2280	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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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
Chloride	7060	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

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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

Cardinal Laboratories

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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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	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
Chloride	688	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
Chloride	2160	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
Chloride	48.0	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	
DRO >C10-C28	171	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	54.7	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
Chloride	368	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	
DRO >C10-C28	101	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	34.7	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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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



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Kane Environmental Eng.		BILL TO		ANALYSIS REQUEST										
Project Manager: Alan Kane		P.O. #:												
Address: 8816 Big View Drive		Company: Kane Env.												
City: Austin		Attn:												
State: TX Zip: 78730		Address: 8816 Big View Dr												
Phone #: 281 370-6580 Fax #:		City: Austin												
Project #:		State: TX Zip: 78730												
Project Name: ONSURCE		Phone #: 281 370 6580												
Project Location:		Fax #:												
Sampler Name: Nathan Harvey														
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX 8021 B		Chloride 4500		TPH 8015 M EXCEEDING	
1	E51 SW	6	1	GROUNDWATER		270	8-7	230						
2	E51 BTM	9	1	WASTEWATER		550	8-7	245						
3	E52 SW	9	1	SOIL	1		8-7	300						
4	E52 BTM	9	1	OIL			8-7	315						
5	E53 SW	9	1	SLUDGE			8-7	330						
6	E53 BTM	9	1	OTHER :			8-7	345						
7	E54 SW	9	1	ACID/BASE:			8-7	400						
8	E54 BTM	9	1	ICE / COOL			8-7	415						
9	E55 SW	9	1	OTHER :			8-7	430						
10	E55 BTM	9	1				8-7	445						

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Relinquished By: **Nathan Harvey** Date: **8/8/17** Received By: **Alan Kane** Date: **8/8/17**

Relinquished By: **Nathan Harvey** Date: **8-8-17** Received By: **Alan Kane** Date: **8-8-17**

Delivered By: (Circle One) **UPS** - **Bus** - **Other** **6:30** **6:55** **7:15**

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: **Alan Kane** (Initials)

REMARKS: **Email Kane at ccomest.net**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



Page 33 of 33

BILL TO

	ANALYSIS REQUEST
--	------------------

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

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

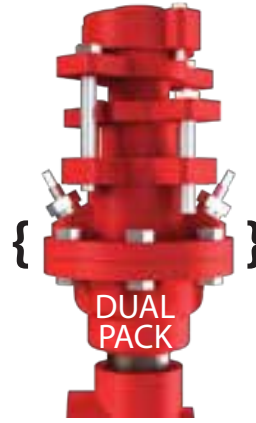
STEP 1 Clean Stuffing Box



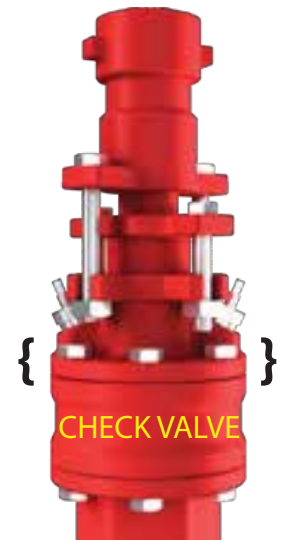
Big Stuff Dual Pack



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

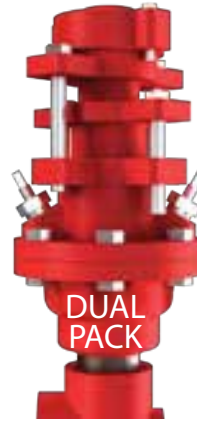
STEP 2 Determine Your Stuffing Box



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

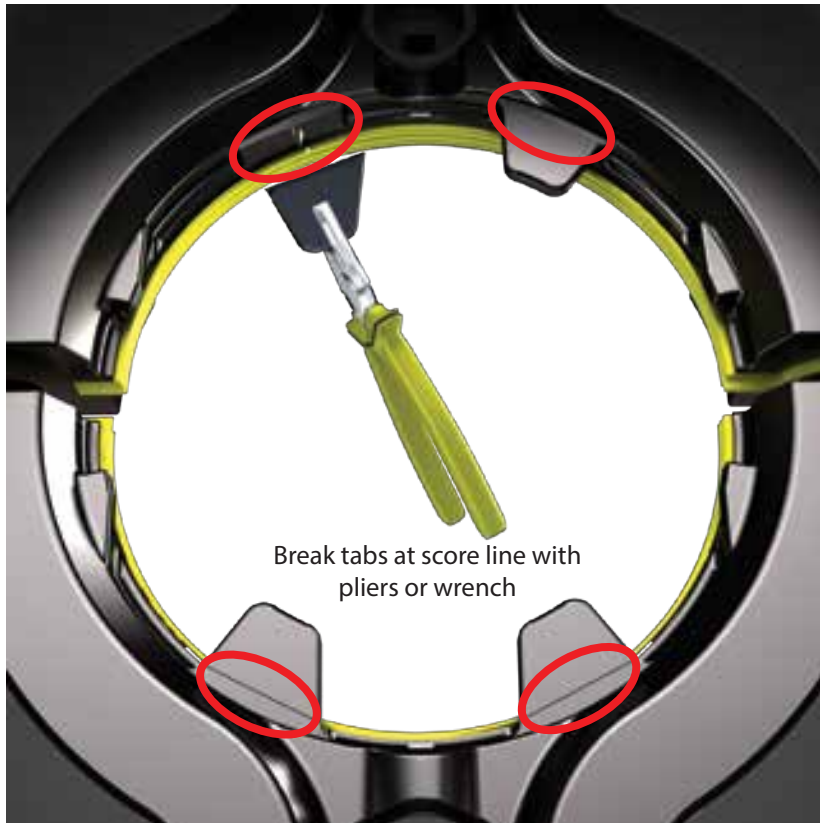


If using Dual Pack or
Pollution Control Stuffing Box,
proceed to



STEP 6 Install Trapper Tub

STEP 3 Break Tabs



Break tabs at score line with
pliers or wrench

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



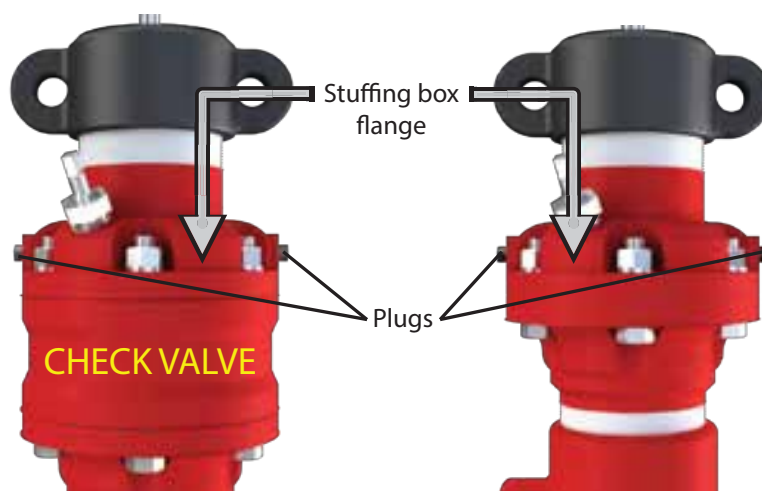
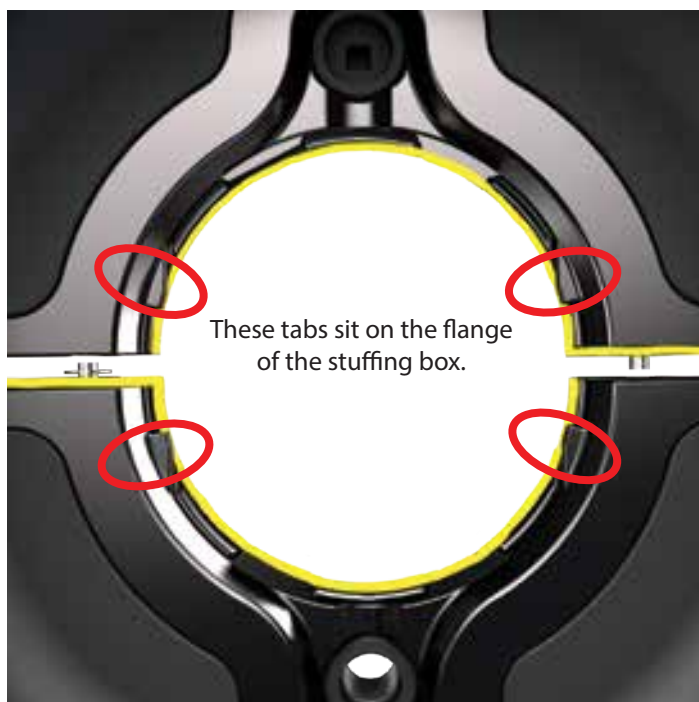
*Can also be used for high temperature wells

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.

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STEP 4 Check Tab Position

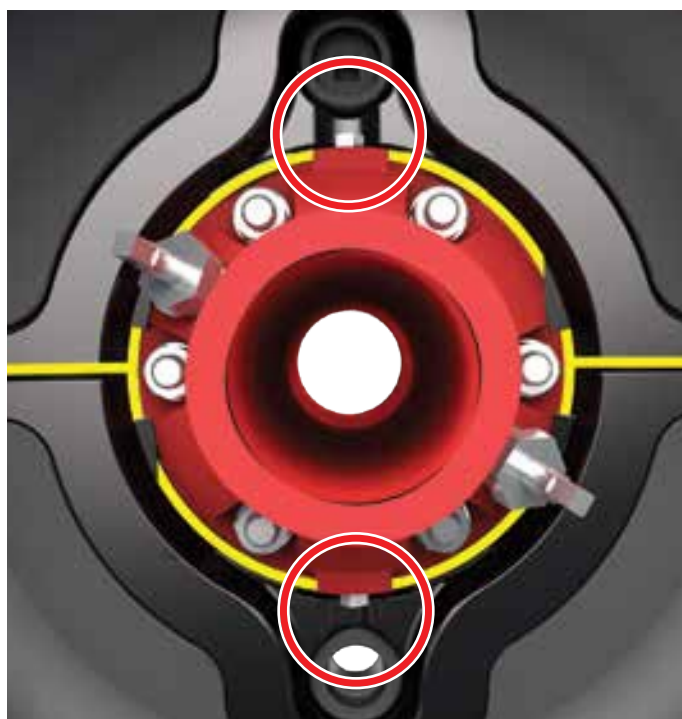


WARNING: Only break tabs if using a Big Stuff Dual Pack, or Big Stuff Dual Pack with check valve stuffing box.

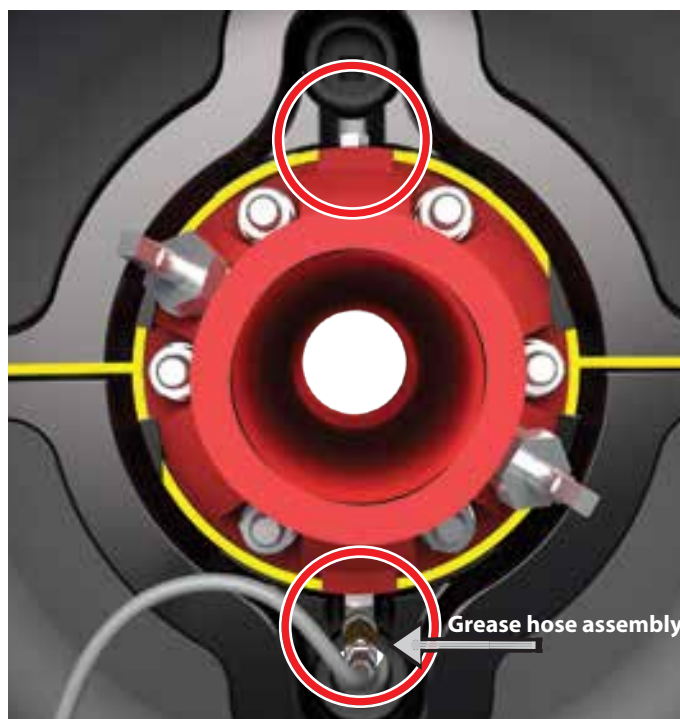
NOTE: If installing optional grease hose, be sure to install hose in stuffing box before Trapper tub.

STEP 5 Plugs at Drain Areas

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



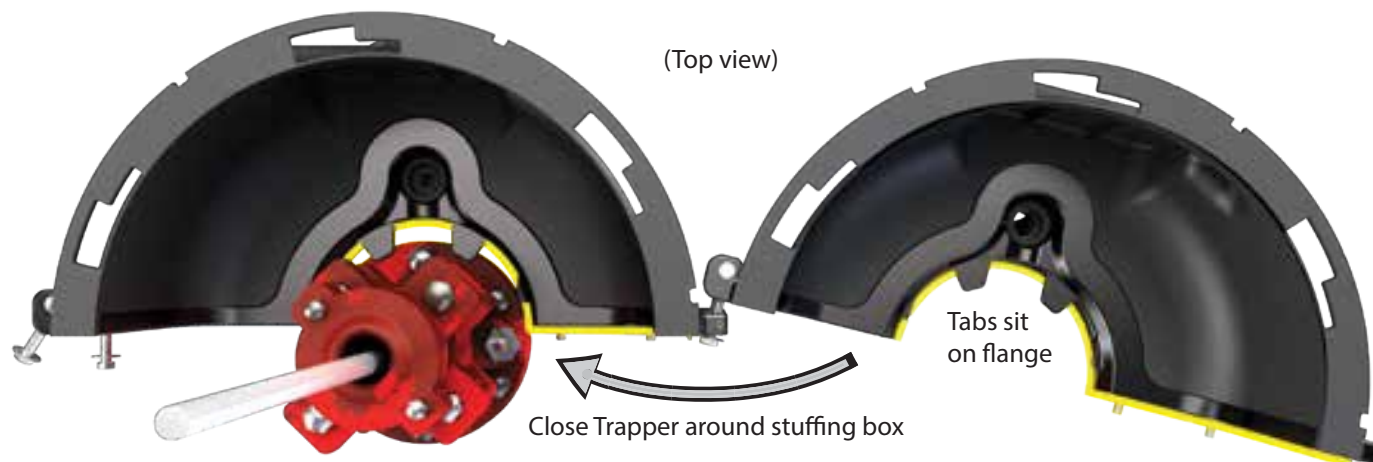
Install tub with plugs at Trapper drain position.



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

Go to STEP 6 of Installation Instructions ➡

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.



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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

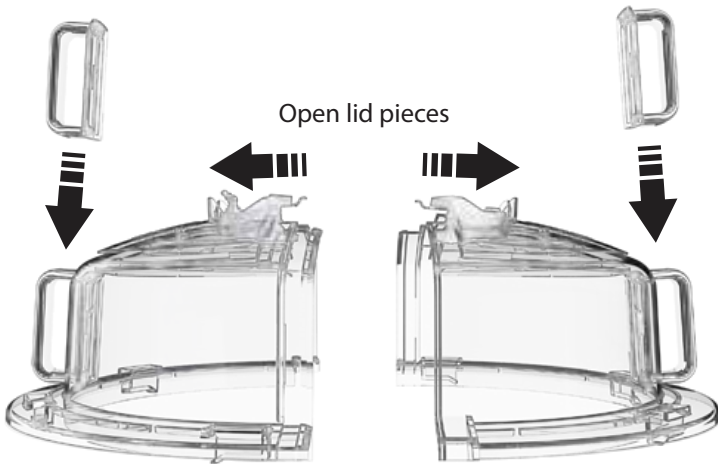
NOTE Trapper Reinstallation After Workover Rig



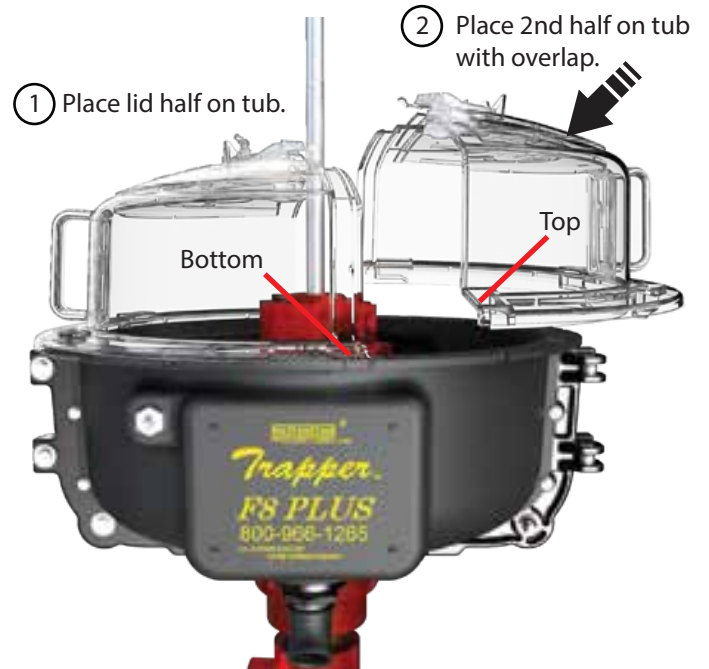
The gasket comes pre-greased at factory and is ready for installation.

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

STEP 9 Attach Handles



STEP 10 Attach Lid



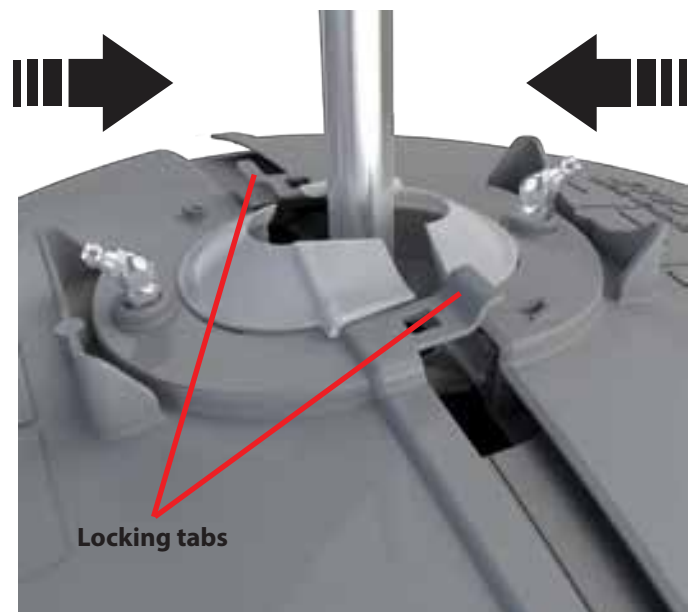
Overlap top and bottom labels correctly
(labels are reversed on opposite side of lid).

STEP 11 Turn Lid to Lock



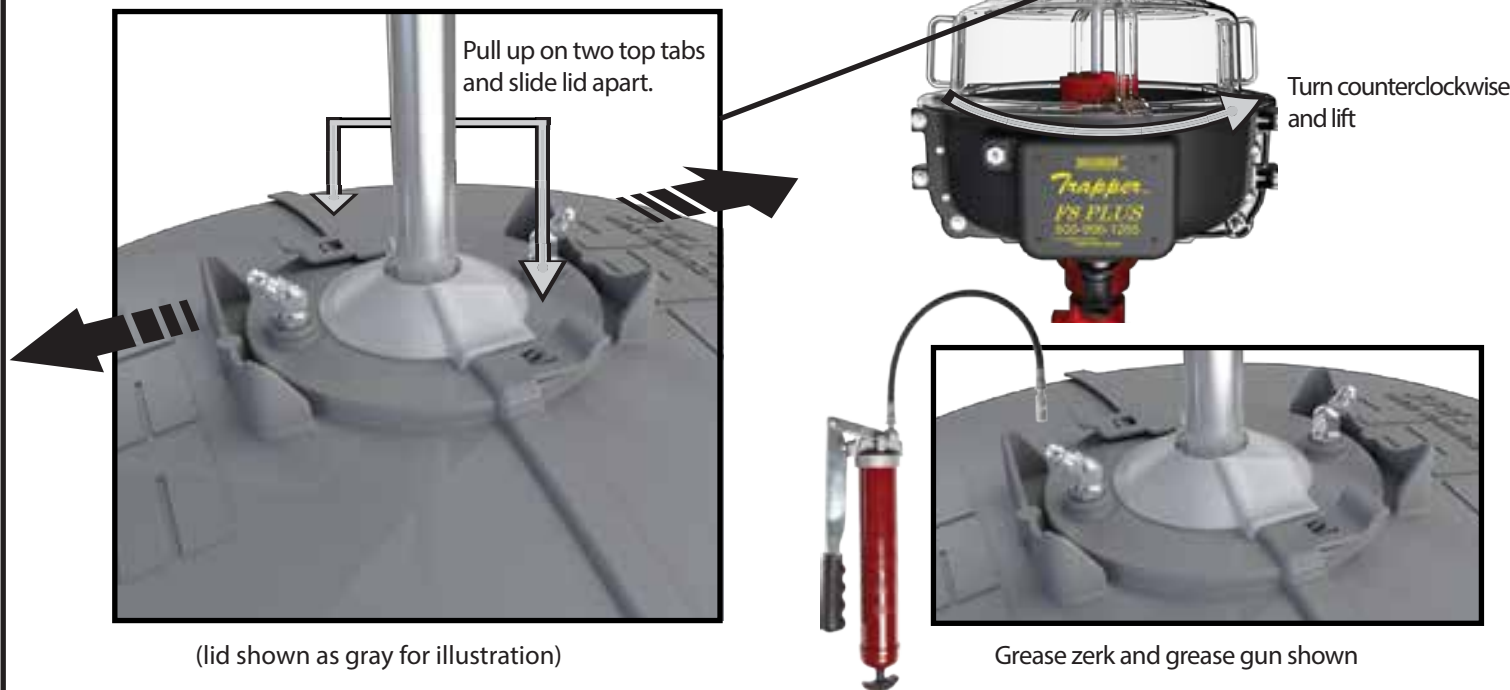
Bring lid down over base holes. Turn lid clockwise to lock in place.

STEP 12 Lock Self Centering Lid



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

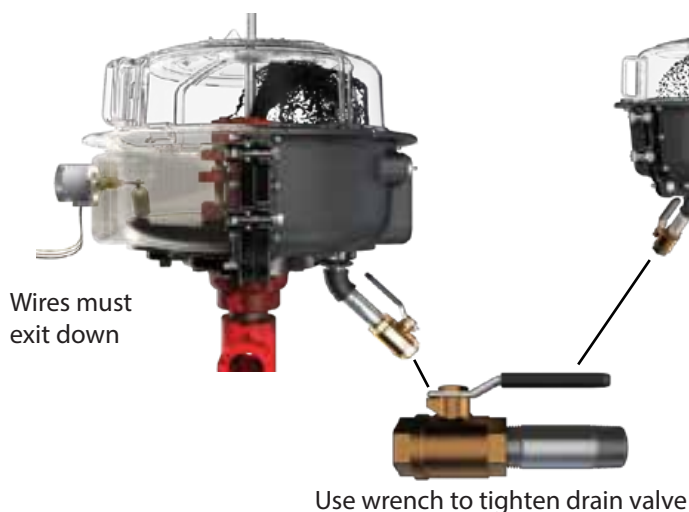
Removing Lid



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

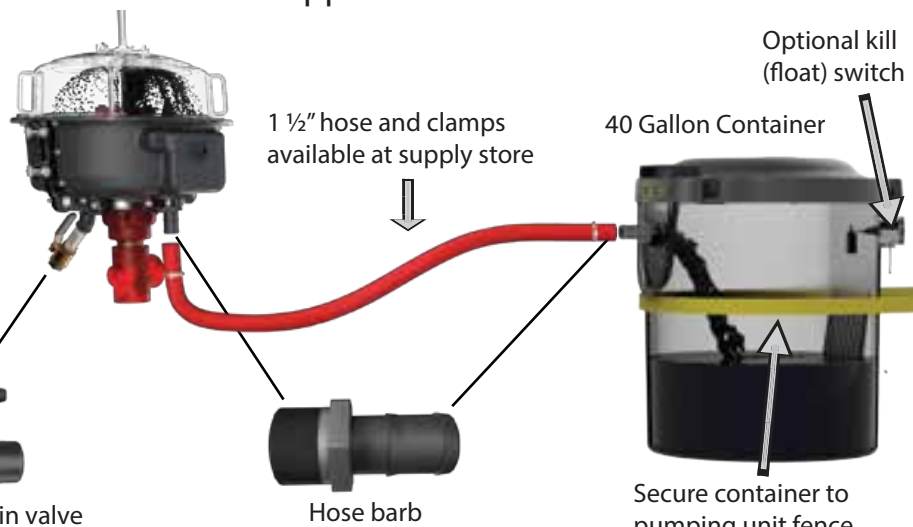
STEP 13 Two Configuration Options

#1 Drain & Kill Switch



Valve is used in both options

#2 Trapper Container & Kill Switch



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



The Trapper™ F8 PLUS & F8 MAX*

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US Patent Pending

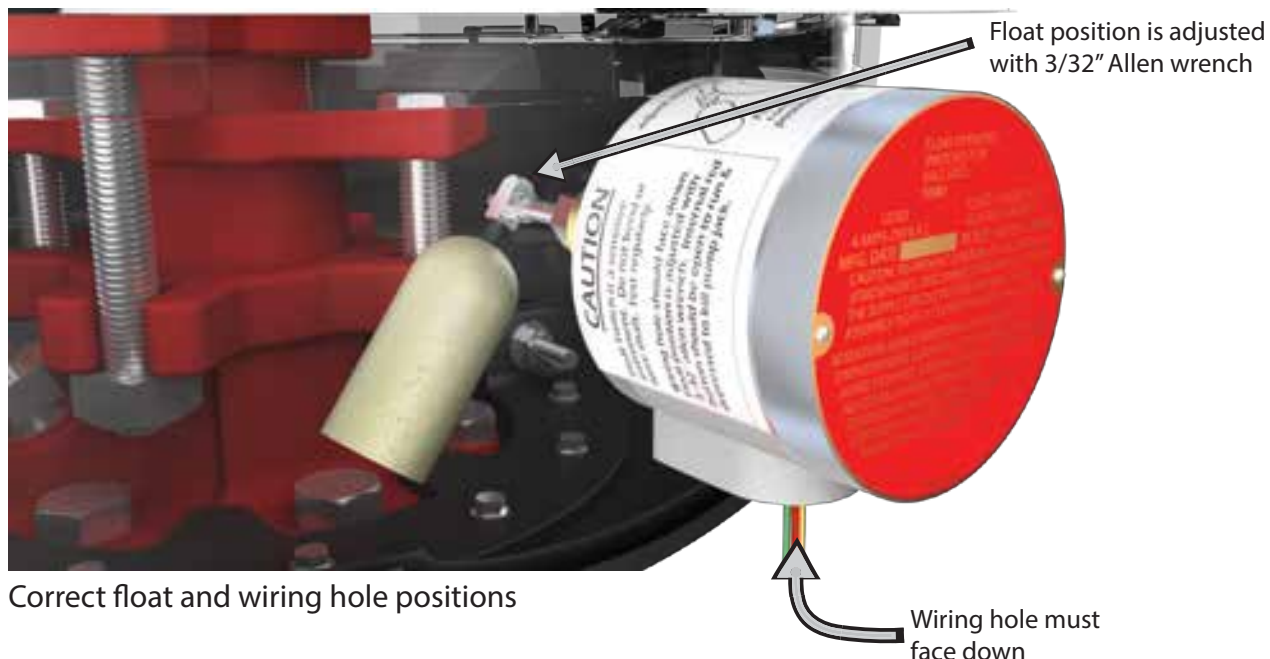
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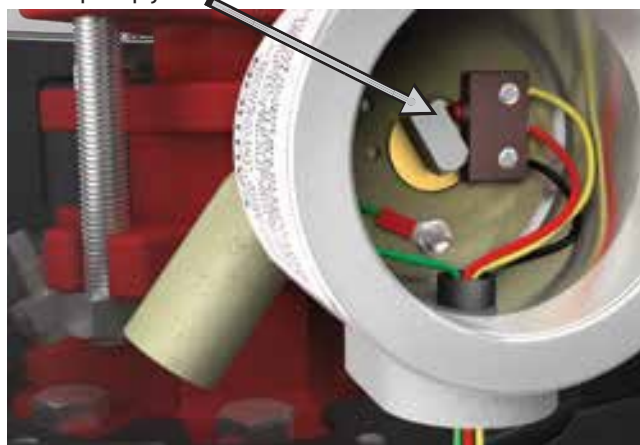
CAUTION

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.

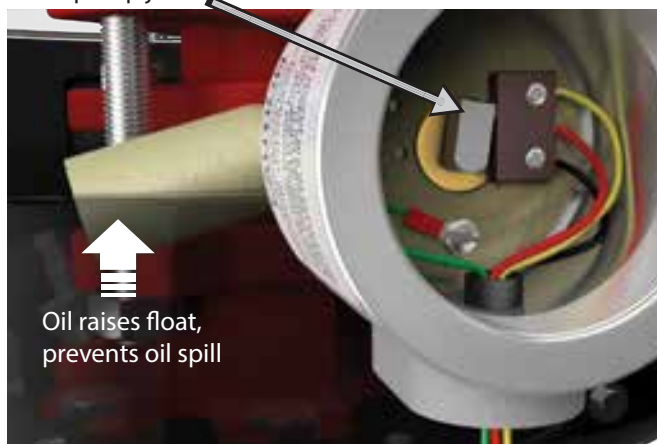
Trappers are not pressurized containments. For colder climates, antifreeze can be added to prevent freezing of fluid



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.