

June 1, 2015

Mr. Mike Bratcher New Mexico Oil Conservation Division 811 S First Street Artesia, NM 88210

RE: Work Plan for Bioremediation and Excavation

Salt Draw 11 Federal Com No. 1

API No.: 30-015-23692 Eddy County, New Mexico

Sphere 3 Project No.: 047730.00

Dear Mr. Bratcher:

Sphere 3 Environmental, Inc. (Sphere 3) has prepared this work plan for bioremediation and excavation activities at the Salt Draw 11 Federal Com No. 1 location on behalf of Matador Production Company (Matador). A topographic map showing the location of the project is included in Attachment 1. The purpose of this work plan is to provide details of the bioremediation of total petroleum hydrocarbon (TPH) contaminated soil in and around the onsite tank battery and to describe the excavation and disposal of chloride-contaminated soils from a nearby legacy pit. Bioremediation of the TPH-contaminated soil to an approximate depth of four (4) feet and the removal and disposal of the chloride-contaminated soils from the upper two (2) feet of the soil profile will be carried out in accordance with the direction set forth by the New Mexico Oil Conservation Division (NMOCD) and the Bureau of Land Management (BLM).

Background

Spill Area

On July 31, 2013, a release of approximately 252 bbl. of crude oil was discovered at the Salt Draw 11 Federal Com No. 1 well site. The release was caused by the blowout of a plug on one of the onsite crude oil tanks. The released crude oil was contained within the earthen firewall around the tank. Approximately 71 bbl. of crude oil was recovered from within the firewall on July 31, 2013. Matador excavated approximately 420 cubic yards of contaminated soil in August 2013.

Sphere 3 conducted a Limited Subsurface Investigation in September 2013 in order to confirm the presence or absence of contaminated soils. Under the instruction of the NMOCD, Sphere 3 conducted an additional investigation in November 2014. Twenty-two geoprobe borings were drilled on the site ranging in depth from 8 feet below the ground surface to 28 feet below the ground surface. The soil from each 4-foot core sample was placed in plastic bags and screened using a

photoionization detector (PID) in order to obtain organic vapor readings. A total of 34 soil samples were collected. A diagram depicting each of the sample locations is included in Attachment 1. The soil samples were placed in laboratory-provided jars and stored in a cooler of ice. The samples were hand delivered to Cardinal Laboratories in Hobbs, New Mexico. The samples were then analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH). The analytical results are outlined below in Table 1, and a copy of the lab results are provided as Attachment 2.

Table 1 – Sample Summary

Soil Boring ID	Depth	Date Collected	Benzene (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)	Chlorides
GB1	4-8'	September 4, 2013	0.191	11	1,840	
GB3	20-24'	September 4, 2013	< 0.050	1.78	433	
GB4	4-8'	September 4, 2013 <0.050 1.32 September 4, 2013 0.078 3.77		1.32	1,940	
GB5	12-16'	September 4, 2013	0.078	3.77	1,600	
GB6	4-8'	September 4, 2013	< 0.050	< 0.300	<100	
GB7	12-16'	September 4, 2013	0.064	4.45	6,140	
GB8	12-16'	September 4, 2013	< 0.200	7.39	6,660	
GB9	0-4'	September 4, 2013	< 0.050	< 0.300	3,390	
GB10	12'-16'	November 18, 2014	< 0.050	< 0.300	<10.0	480
GB10	16'-20'	November 18, 2014	< 0.050	< 0.300	<10.0	480
GB11	8'-12'	November 18, 2014	< 0.050	< 0.300	<10.0	608
GB11	20'-22'	November 18, 2014	< 0.050	< 0.300	<10.0	672
GB12	8'-12'	November 18, 2014	< 0.050	0.318	484	<16.0
GB12	20'-24'	November 18, 2014	< 0.050	< 0.300	<10.0	80.0
GB13	8'-12'	November 18, 2014	< 0.050	< 0.300	305	240
GB13	20'-22'	November 18, 2014	< 0.050	< 0.300	116	160
GB14	0'-4'	November 18, 2014	< 0.050	< 0.300	<10.0	<16.0
GB14	20'-21.5'	November 18, 2014	< 0.050	< 0.300	<10.0	208
GB15	0'-4'	November 18, 2014	< 0.200	11.9	1483	48.0
GB15	16'-20'	November 18, 2014	< 0.050	7.78	96.4	32.0
GB16	4'-8'	November 18, 2014	< 0.200	12.8	1977	<16.0
GB16	20'-23'	November 18, 2014	< 0.050	5.80	263	144
GB17	8'-12'	November 18, 2014	< 0.050	< 0.300	<10.0	80.0
GB17	20'-22.5'	November 18, 2014	< 0.050	< 0.300	<10.0	160
GB18	12'-16'	November 18, 2014	< 0.050	< 0.300	<10.0	928
GB18	16'-20'	November 18, 2014	< 0.050	< 0.300	<10.0	224
GB19	12'-16'	November 18, 2014	< 0.050	< 0.300	<10.0	368
GB19	20'-22'	November 18, 2014	0.147	0.305	<10.0	400
GB20	12'-16'	November 18, 2014	< 0.050	< 0.300	36.6	16.0
GB20	16'-20'	November 18, 2014	< 0.050	< 0.300	<10.0	64.0
GB21	0'-4'	November 19, 2014	< 0.050	0.611	2382.7	<16.0

GB21	20'-24'	November 19, 2014	< 0.050	< 0.300	<10.0	192
GB22	0'-4'	November 19, 2014	< 0.050	< 0.300	<10.0	304
GB22	16'-20'	November 19, 2014	< 0.050	< 0.300	<10.0	112
	NMOCD Gi	uidelines for Remediation og	Leaks, Spills,	and Releases Limi	its	
			10	50	100	

mg/kg – milligrams per kilograms

Based on the findings of the Limited Subsurface Investigations performed on the facility in September 2013 and November 2014, concentrations of TPH were determined to be elevated above the cleanup standards set forth in the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993)*. This guideline determines remediation levels by assessing the site for the severity of contamination and potential environmental and public health threats using a risk-based ranking system. This system uses three factors to establish remediation standards: 1.) Depth to Groundwater, 2.) Wellhead Protection Area, and 3.) Distance to Nearest Surface Water Body. The Salt Draw 11 Federal Com No. 1 well site is not located within a wellhead protection area, nor is it located in an area that would potentially pose a threat to a surface water body. According to the New Mexico Office of the State Engineer's water well database, the depth to groundwater in the area of this facility is approximately 40 feet below the ground surface. Based on this information, the most stringent cleanup levels of 10 ppm for benzene, 50 ppm for BTEX, and 100 ppm for TPH were applied to the remediation of this site.

The results of the sampling activities at the Salt Draw 11 Federal Com No. 1 were used to develop a proposed plan of remediation. Development of this remediation plan was largely based on discussions in a meeting held on February 26, 2015 by and between Matador, Sphere 3, and representatives of the NMOCD and subsequent conversations between Sphere 3, the NMOCD, and the BLM regarding agency requirements and expectations.

Proposed Work Plan

Allied International (Allied) will conduct the bioremediation of TPH-contaminated soil to an approximate depth of four (4) feet in and around the tank battery and the excavation and disposal of chloride-contaminated soils from the first two (2) feet of the legacy pit at the Salt Draw 11 Federal Com No. 1. The approximate boundaries of the spill area were determined by Sphere 3 during the subsurface investigations conducted in September 2013 and November 2014. Approximately 2,380 cubic yards of soils will be removed from the spill area. Approximately 5,110 cubic yards of soil will be removed from the legacy pit area.

Legacy Pit Excavation Area

The approximate boundaries of the legacy pit area were determined by the BLM during a site visit in November 2014. The legacy pit is located north of the well site and was estimated to be approximately 280 feet by 300 feet. Based on the direction received from the BLM, Allied will excavate the first two (2) feet of soil from the legacy pit. This soil will be trucked to the Lea Land Landfill (Lea Land) for disposal, and each truck will be completed emptied then return from Lea Land with clean caliche that will be utilized as fill. The caliche will be stockpiled onsite while the excavation is being completed. The excavated area will then be lined with a plastic barrier in preparation for the bioremediation of TPH-contaminated soils from the spill area. The excavated

TPH-contaminated soils from the spill area will be placed in the legacy pit excavation area for bioremediation purposes. After bioremediation is complete, samples will be collected from the treated soils for submittal to NMOCD and BLM. If the levels of TPH have been sufficiently lowered to concentrations approved by NMOCD and BLM, the soils will be spread over the lined pit area. The stockpiled caliche will then be used to return the pit area to grade. Based on recommendations from the BLM, the legacy pit area will be seeded with BLM Seed Mix No. 1.

Spill Area Remediation Area

Based on the requirements of the NMOCD and BLM, Allied will excavate the spill area to an approximate depth of four (4) feet. The TPH-contaminated soil will be stockpiled on the lined pit area prior to returning the excavated pit area to original grade. Sphere 3 will collect grab samples one foot below the excavated level to be analyzed for TPH (EPA Method 8015). Analytical data from the samples will be submitted to the NMOCD and BLM for closure approval. If closure approval is granted, the excavated spill area will be backfilled with clean caliche, the tank battery will be reconstructed, and production will resume.

During the BLM inspection in November 2014, African rue (*Peganum harmala*) was found to be growing on the site. The BLM considers this plant a threat to livestock health. Prior to closure, Allied will remove all African rue located on the site as required by BLM. The African rue will be bagged with its root severed and placed in the open excavation area for burial.

Allied will treat the stockpiled, TPH-contaminated soils with microbial solution until the TPH levels are below NMOCD cleanup levels. Sphere 3 will collect samples from the treated soil piles for analysis of TPH (EPA Method 8015). The analytical results will be submitted to the NMOCD for approval of successful bioremediation. After NMOCD and BLM approval, the treated soil and remaining clean caliche will be used to return the pit area to grade prior to seeding.

Sphere 3 will maintain close coordination with the NMOCD and the BLM throughout the field work to ensure that all parties are kept informed during the remediation and excavation process.

If you have any questions, or if we can be of additional service, please call us at 903-297-4673.

Sincerely,

Sphere 3 Environmental, Inc.

resoforest

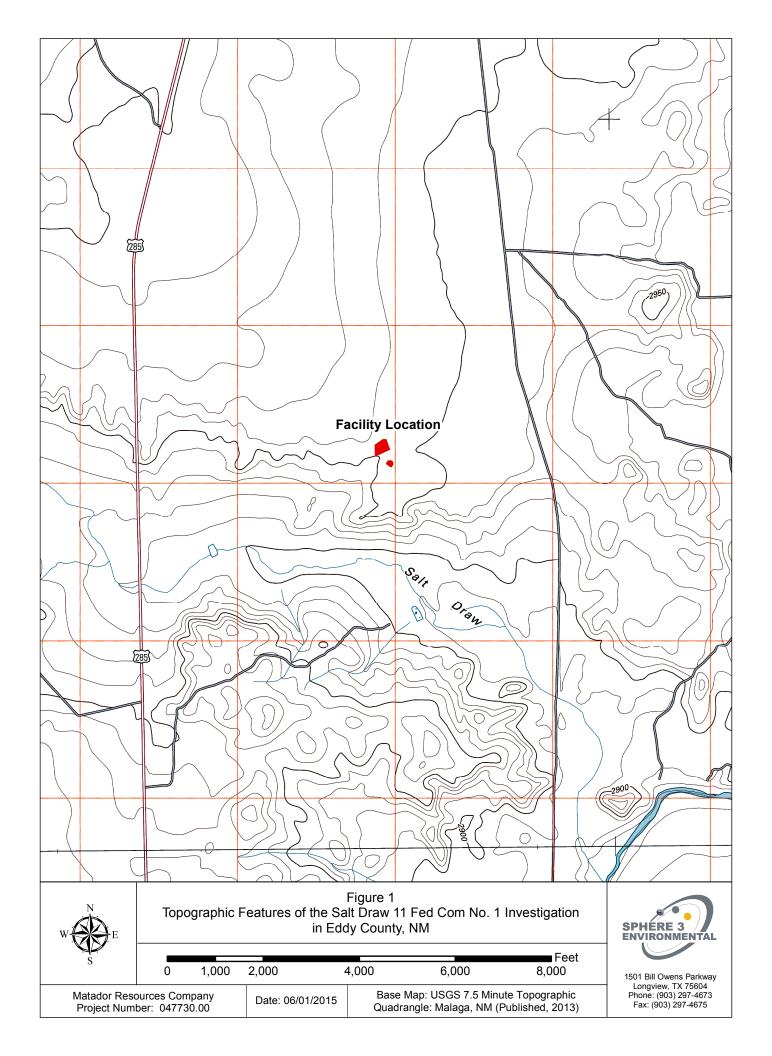
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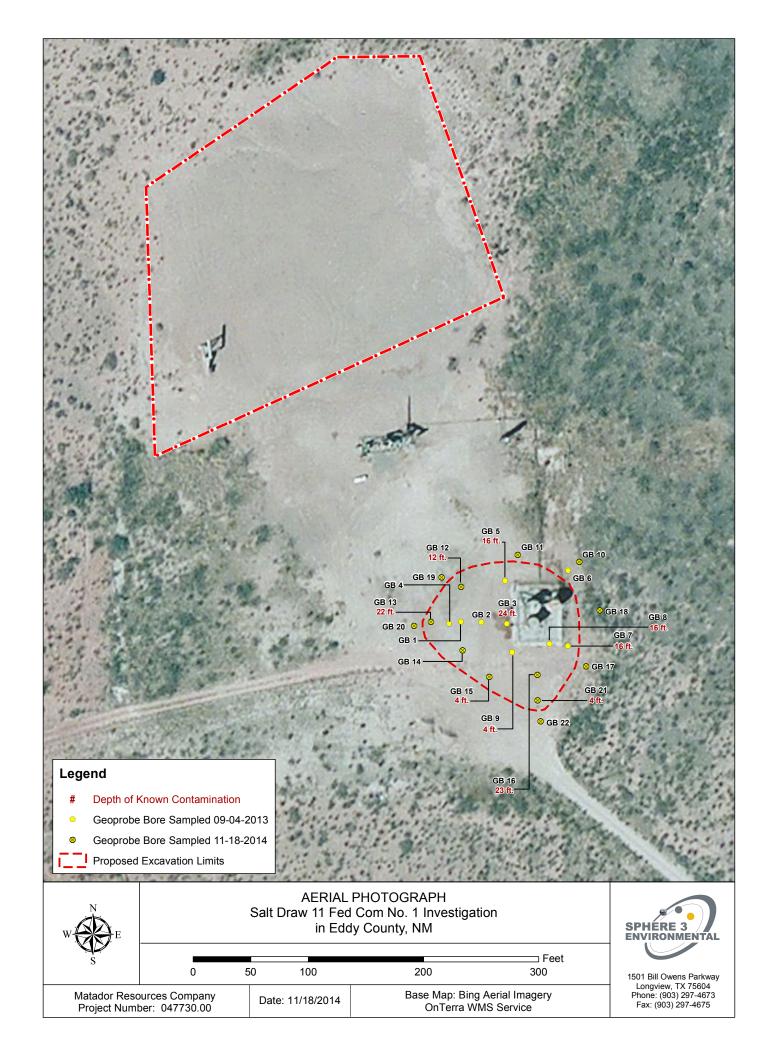
Environmental Scientist

Attachments:

Attachment 1 - Maps

Attachment 2 – Laboratory Analysis Report







September 05, 2013

CRISSY FORREST
SPHERE 3 ENVIRONMENTAL
1501 BILL OWENS PARKWAY
LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/05/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 1 4-8 (H302141-01)

BTEX 8021B	mg	'kg	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.191	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.619	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	3.02	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	7.21	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	11.0	0.300	09/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	144	% 89.4-12	6						
TPH 418.1	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1840	100	09/05/2013	ND	5140	103	5000	4.63	

Cardinal Laboratories *=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/05/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

ma/ka

Sample ID: GB 5 12-16 (H302141-02)

BTEX 8021B

B1EX 0021B	ilig/	ng .	Allalyze	u by. Dw					3-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.078	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.464	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	0.531	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	2.70	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	3.77	0.300	09/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	159	% 89.4-12	6						
TPH 418.1	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1600	100	09/05/2013	ND	5140	103	5000	4.63	

Analyzed By: DW

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

S-04



SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/05/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 047730 Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 8 12-16 (H302141-03)

BTEX 8021B	mg/	'kg	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.492	0.200	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	2.37	0.200	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	4.40	0.600	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	7.39	1.20	09/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	148 9	% 89.4-12	6						
TPH 418.1	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	6660	100	09/05/2013	ND	5140	103	5000	4.63	

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Celey D. Keine



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/05/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 7 12-16 (H302141-04)

BTEX 8021B	mg/	kg	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.064	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.394	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	1.58	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	2.42	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	4.45	0.300	09/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	163 9	% 89.4-12	6						
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	6140	100	09/05/2013	ND	5140	103	5000	4.63	

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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company Name: Sphere 3 Environmental		ALYSIS REQUEST
Project Manager: (Y)SSY FOY(eS+	P.O. #:	
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Appears in the control of the applicable when the control of the applicable was the control of the applicable for incidental or consequent all amanges, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, liates or successors arising out of or related to the performance of services hereunder by Cardinal researches of whether each being he because the characteristic and the performance of services hereunder by Cardinal researches of whether each being he because of whether each being any of the characteristic and the performance of services hereunder by Cardinal researches of whether each being any of the characteristic and the performance of services hereunder by Cardinal researches of whether each being any of the characteristic and the performance of services hereunder by Cardinal researches and the performance of the per	Id received by Cardinal within 30 days after completion of the a loss of use, or loss of profits incurred by client, its subsidiaries is hased unon any of the above of the decision.	applicable
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Time:		
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Time:		
Delivered By: (Circle One) Sample Cond	снеск	
ampler - UPS - Bus - Other:	s	

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



September 10, 2013

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Kuno

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



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/10/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB3 20-24 (H302142-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	0.370	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.216	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	1.19	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	1.78	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 89.4-12	6						
TPH 418.1	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	433	100	09/05/2013	ND	5140	103	5000	4.63	

A ... - L ... - - - I D. .. MC

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/10/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

ma/ka

Sample ID: GB4 4-8 (H302142-02)

RTFY 8021R

BIEX 8021B	mg	r kg	Anaiyze	а ву: мэ					3-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	0.196	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.451	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	0.677	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	1.32	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 89.4-12	6						
TPH 418.1	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1940	100	09/05/2013	ND	5140	103	5000	4.63	

Analyzed By: MC

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Celey D. Keine

S-04



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/10/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB6 4-8 (H302142-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	09/05/2013	ND	5140	103	5000	4.63	

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 09/04/2013 Sampling Date: 09/04/2013

Reported: 09/10/2013 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB9 0-4 (H302142-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.059	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	% 89.4-12	6						
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	3390	500	09/05/2013	ND	5140	103	5000	4.63	

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Routing tem award time

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 Procil (PSUITS D). KINKANOL @ SPROL 3 PHUIVON MENTAL. COM (575) 393-2326 FAX (575) 393-2476 forrest@ songe songramontal com

Company Name: 4	arance ::	W	In union montal	(9)			ANALYSIS	S REQUEST	
Project Manager:	0		1	P.O. #:)			
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city: Lana	Chaid	State:	1 Zip: 7560°C	Attn:	5	1.0 C	d		
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PLEASE NOTE: Liability ar analyses. All claims includir	nd Damages. Cardinal's liab ng those for negligence and	lifty and client's exclusive remedy i any other cause whatsoever shall	P.LEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any dairn arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All dairns 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	contract or tort, shall be limited to th iting and received by Cardinal within	e amount paid by the client for the age of the	he applicable		-	
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November 26, 2014

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 11/19/14 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Lope S. Moreno

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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager



SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

SALT DRAW NO. 1 SPILL Project Name: Sampling Condition: Cool & Intact Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 10 12' - 16' (H403559-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/20/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	
Surrogate: 1-Chlorooctane	113 %	% 47.2-15	7						
Surrogata: 1 Chlorocetadacana	1210	% 52 1 17	'6						

131 % Surrogate: 1-Chlorooctadecane 52.1-176

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SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 047730 Jodi Henson

EDDY COUNTY, NM Project Location:

Sample ID: GB 10 16' - 20' (H403559-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	< 0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/20/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	
Surrogate: 1-Chlorooctane	120 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	133 %	52.1-17	6						

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Lope S. Moreno



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 11 8' - 12' (H403559-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 61-154	!						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/20/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	
Surrogate: 1-Chlorooctane	118 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130 9	% 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 11 20' - 22' (H403559-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	< 0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	< 0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	< 0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/20/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	
Surrogate: 1-Chlorooctane	118 %	6 47.2-15	7						
G . 1 CH . 1	120.0	52 1 17							

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 12 8' - 12' (H403559-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	< 0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.140	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	0.178	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	0.318	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	30.0	10.0	11/21/2014	ND	182	90.8	200	3.28	
			11/21/2014	ND	182	90.8	200	3.21	

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

148 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 12 20' - 24' (H403559-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	182	90.8	200	3.21	
Surrogate: 1-Chlorooctane	116 9	% 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

133 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 13 8' - 12' (H403559-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	< 0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	< 0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	305	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	149 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 13 20' - 22' (H403559-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	116	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	123 9	% 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

138 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 14 0' - 4' (H403559-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	135 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 047730 Jodi Henson

EDDY COUNTY, NM Project Location:

Sample ID: GB 14 20' - 21.5' (H403559-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 61-154	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	125 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	136	% 52 1-17	6						

52.1-176 Surrogate: 1-Chlorooctadecane 136 %

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 15 0' - 4' (H403559-11)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.465	0.200	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	1.38	0.200	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	10.1	0.600	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	11.9	1.20	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	223	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	1260	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	142	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 143 % 52.1-176

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 15 16' - 20' (H403559-12)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.399	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.965	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	6.42	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	7.78	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 61-154	!						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.3	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	74.1	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	131 9	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 16 4' - 8' (H403559-13)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.446	0.200	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	1.10	0.200	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	11.2	0.600	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	12.8	1.20	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	247	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	1730	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	152	% 47.2-15	7						
G . 1 CH . 1	156	0/ 52.1.17	,						

Surrogate: 1-Chlorooctadecane 156 % 52.1-176

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 16 20' - 23' (H403559-14)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.283	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.664	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	4.85	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	5.80	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 61-154	!						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	53.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	210	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	130	% 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

143 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 17 8' - 12' (H403559-15)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	< 0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	< 0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	< 0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 9	% 61-154	!						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/20/2014	ND	432	108	400	3.77	
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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	127 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	140 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 17 20' - 22.5' (H403559-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/25/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	124 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	135 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 18 12' - 16' (H403559-17)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 %	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	127 %	6 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

137 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 18 16' - 20' (H403559-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	126 %	6 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

136 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 19 12' - 16' (H403559-19)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	126 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	137 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 19 20' - 22' (H403559-20)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.147	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	0.132	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	0.305	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4 %	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	126 %	6 47.2-15	7						

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 047730 Jodi Henson

EDDY COUNTY, NM Project Location:

Sample ID: GB 20 12' - 16' (H403559-21)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6 %	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	36.6	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	142 %	6 52.1-17	6						

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Lope S. Moreno



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/18/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 20 16' - 20' (H403559-22)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1 9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	127 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	137 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/19/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 21 0' - 4' (H403559-23)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	0.108	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	0.159	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	0.344	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	0.611	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	72.7	50.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	2310	50.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	130	% 47.2-15	7						

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Lope S. Moreno

Surrogate: 1-Chlorooctadecane

178 %

52.1-176



SPHERE 3 ENVIRONMENTAL CRISSY FORREST 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/19/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact
Project Number: 047730 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: GB 21 20' - 24' (H403559-24)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	< 0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/20/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	134 %	6 52.1-17	6						

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SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/19/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 047730 Jodi Henson

EDDY COUNTY, NM Project Location:

Sample ID: GB 22 0' - 4' (H403559-25)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	< 0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/20/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	127 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	136 9	% 52.1-17	6						

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Lope S. Moreno



SPHERE 3 ENVIRONMENTAL **CRISSY FORREST** 1501 BILL OWENS PARKWAY LONGVIEW TX, 75604 Fax To: (903) 297-4675

Received: 11/19/2014 Sampling Date: 11/19/2014

Reported: 11/26/2014 Sampling Type: Soil

Project Name: SALT DRAW NO. 1 SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 047730 Jodi Henson

EDDY COUNTY, NM Project Location:

Sample ID: GB 22 16' - 20' (H403559-26)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/20/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	
Surrogate: 1-Chlorooctane	127 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	137 %	6 52.1-17	6						

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Lope S. Moreno



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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(575) 393-2326 FAX (575) 393-2476				TOTAL PROPERTY	
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service. In no event shall Cardinal be liable for incidental or consequential admages, including window immediate, whether such claim is based upon any of the above stated reasons or otherwise 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. Phone Res	Cardinal, regardless of whether such clair	m is based upon any of the above stated reason	77		
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2826

34%

Sample Condition
Cool Intact
Pyes Pyes
No No

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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11-14-14	filliates 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: Phone Res	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim airting whether based in contract or tort, shall be limited to the amount paid by the client for the annual randyses. All claims including those for negligence and any other cause whitesover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable arrive, in no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, bost of use, or loss of profits incurred by dent, its subsidiaries,	5 nb 2	めてい	4822 16'-6'	HB72 0'-4'	48 21 20'-24'	GB2 6'-4'	4220 lei-20,	4870 12'-16'		oaliple i.p.	Cample I			1	Eddy wanty N	Salt Draw No. 1	7760 Project Owner:	Phone #: 903-297-4675 Fax #: 903	,	of Bill Overs Parkway	Chssy A	e: STHEVE & ENVINONMENTA
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Sample Condition
Cool Intact
Yes 7 Yes
No No

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

3.40

Sampler - UPS - Bus - Other: