## Site Investigation Report & Corrective Action Plan Everest 2 State #1 Lea 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: 17-461

September 2017

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### **Site Investigation Summary**

### Introduction:

On August 30<sup>th</sup>, 2017 approximately 60 barrels of produced water were released as a result of power failure. Electrical power was lost and the air compressor used to supply air to the controls on the separator was not operable. As a result, the produced water carried over and was released near the flare. Approximately 57 barrels of produced water were recovered. The impacted area was estimated to be about 3,750 square feet (**Figure 1 and Appendix A**). A copy of the C-141 is provided as (**Figure 2**).

The Everest State 2 #1 well is located in rural Lea County, near Milnesand, New Mexico. There are no records of any water wells within 5,000 feet of the facility (**Appendix B**). The distance to the nearest surface water is approximately 0.71 miles, south and east of the facility.

### **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 site investigation at 9:30am on September 13<sup>th</sup>, 2017 (**Appendix D**). Photographs were taken of the impacted areas (**Appendix A**).
- 3. Kane personnel identified and collected five (5) samples (Sample ES1, ES2, ES3, ES4, and ES5) that were taken in each cardinal direction of the impacted area and the lowest point within the impacted area (Figure 1). Samples were collected at depths of 1 ft and 3 ft (bgs). 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. The results are provided in (Table 1) along with a description of the soils encountered. A composite background sample was also collected from the surface to a depth of 1 ft (bgs) from an area that based on historical aerial photographs has not been impacted (Figure 1). This soil was also screened using the PID and EC meter and the results are provided in (Table 1). A sample was also collected from the soil that had been excavated and placed on a plastic liner, the results are provided in (Table 1).

- 4. Kane personnel used an auger to collect each sample. After screening, each sample was then placed in appropriate containers, properly labeled, then put 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 - extended; Gasoline Range Organics, Diesel Range Organics, and Oil Range Organics – (EPA Method 8105). Chlorides – (EPA Method 4500 or equivalent).

- 5. The boreholes were backfilled with bentonite.
- 6. A summary of the analytical results for each sample are provided in (**Table 2**).

### **Corrective Action Plan**

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

- There are no water wells within 5,000 feet of the facility.
- The analytical results of the soil samples.
- Observations made at the site regarding the size of the impacted area.
- The suggested appropriate cleanup criteria for the following contaminants;
  - Benzene 10 ppm
  - BTEX 50 ppm
  - TPH 5,000 ppm
  - Chlorides 600 ppm

Based on this information, and since none of the analytical results indicate that there are soils impacted above the suggested cleanup levels, there is no further action required.

## FIGURE 1 Impacted Area

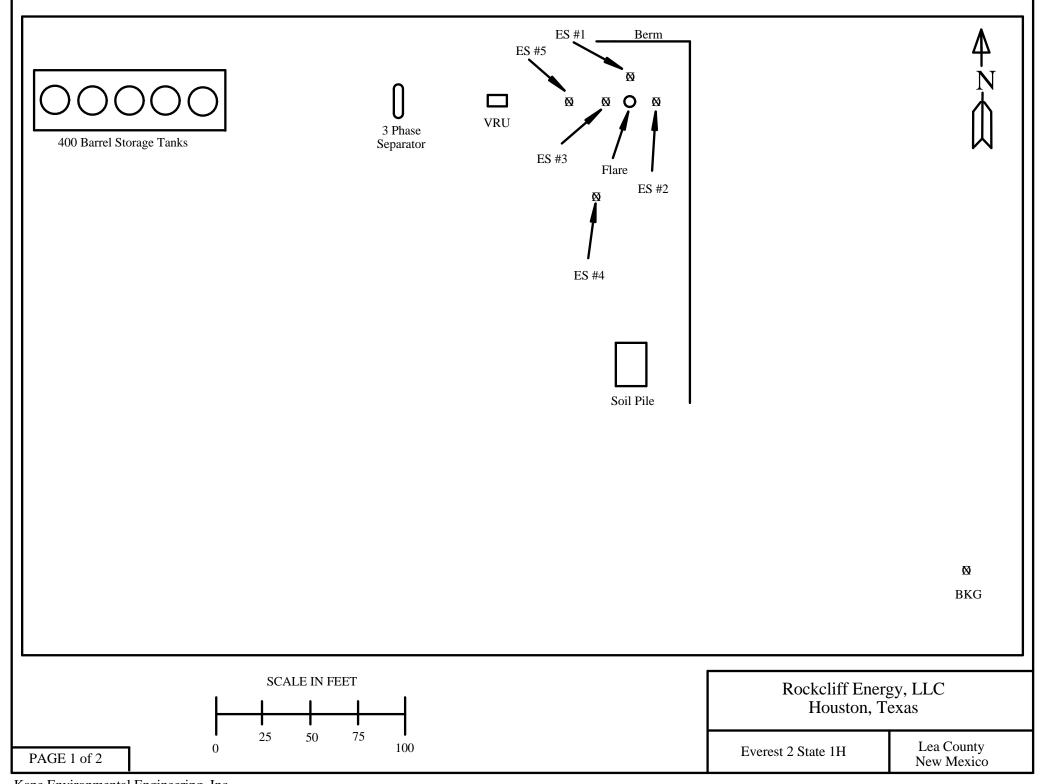


FIGURE 2

**C-141 Form** 

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

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

Form C-141

Revised April 3, 2017

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

			Rele	ease Notific	ation	and Co	rrective A	ction					
						<b>OPERA</b>	ГOR		Initia	al Report		Final F	Report
				w Mexico LLC		Contact: Mi		<b>7</b> 00					
Facility Nar		NNEY; STE	1300; HC	OUSTON TX 77			No. (713) 351-35 be: Tank Battery						
•				T			c. Tank Battery						
Surface Ow	ner Shanı	non Kizer		Mineral O	wner N	IM SLO			API No	. 30-025-4	3450		
				LOCA		OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	st Line	County			
D	2	09S	34E	120		N	440	W			LEA	1	
			Latitud		I o	ngitude_		NAD83					
			Latitud			OF RELI	E A CIE	NADOS					
Type of Relea	ase: Produc	ed Water		NAI	UKE		Release: 60 BBL	s v	olume R	Recovered			
Source of Re		Tank				Date and H	lour of Occurrenc	е Г	ate and	Hour of Dis	covery		
Was Immedia	ate Notice (	Given?				08/30/2017 If YES, To		0	8/30/201	7 22:05			
was minicula	ate rvotice v		Yes [	] No ☐ Not Re	equired	Olivia Yu	Whom:						
By Whom?		Jamie Robin	ison				Iour 08/31/2017						
Was a Water	course Read	ched?	Yes	l No		If YES, Vo	olume Impacting t	the Waterc	ourse.				
10 331													
If a Watercou N/A	irse was Im	pacted, Descr	ibe Fully.	•									
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*									
Lost power to	air compr	essor that send	ls supply t	o separator to ope	rate all d	controls. Sen	arator filled up an	ıd sent fluid	d out the	flare. Appr	oximat	elv 60 ba	arrels
		cation. Power		o separator to ope	rate arr	controls. Sept	arator rinea ap an	ia sem man	a out the	таго. търрг	Omme	<i>21</i> , 00 00	arreis
Describe Are	a Affected	and Cleanup A	Action Tak	ken.*									
V	1- 4- 14:-	1		C	4	-1	_:_:	4					
vacuum truci	k to locatio	n cieaned up i	ree water;	Crew and backho	e out to	ciean up rem	aining produced v	water.					
				is true and compl									
				nd/or file certain re ce of a C-141 repo									
should their o	perations h	nave failed to a	adequately	investigate and re	emediate	e contaminati	on that pose a thre	eat to grou	nd water	, surface wa	ater, hu	man hea	
		addition, NMC ws and/or regu		otance of a C-141 r	report do	oes not reliev	e the operator of i	responsibil	ity for co	ompliance v	vith any	y other	
rederar, state,	or local la	ws and/or rege	nations.				OIL CON	SERVA	TION	DIVISIO	)N		
Cianatura							<u> </u>	2211 (11	11011	21,101	<u> </u>		
Signature:						Annroyed by	Environmental S	necialist:					
Printed Name	e:					Approved by	Environmental 5	pecialist.					
Title:						Approval Dat	e:	Ex	piration l	Date:			
E-mail Addre						Conditions of	· Approval:						
E-man Addit	,				<u> </u>	Conditions of	rippiovai.			Attached			
Date:			Phone:										

<sup>\*</sup> Attach Additional Sheets If Necessary

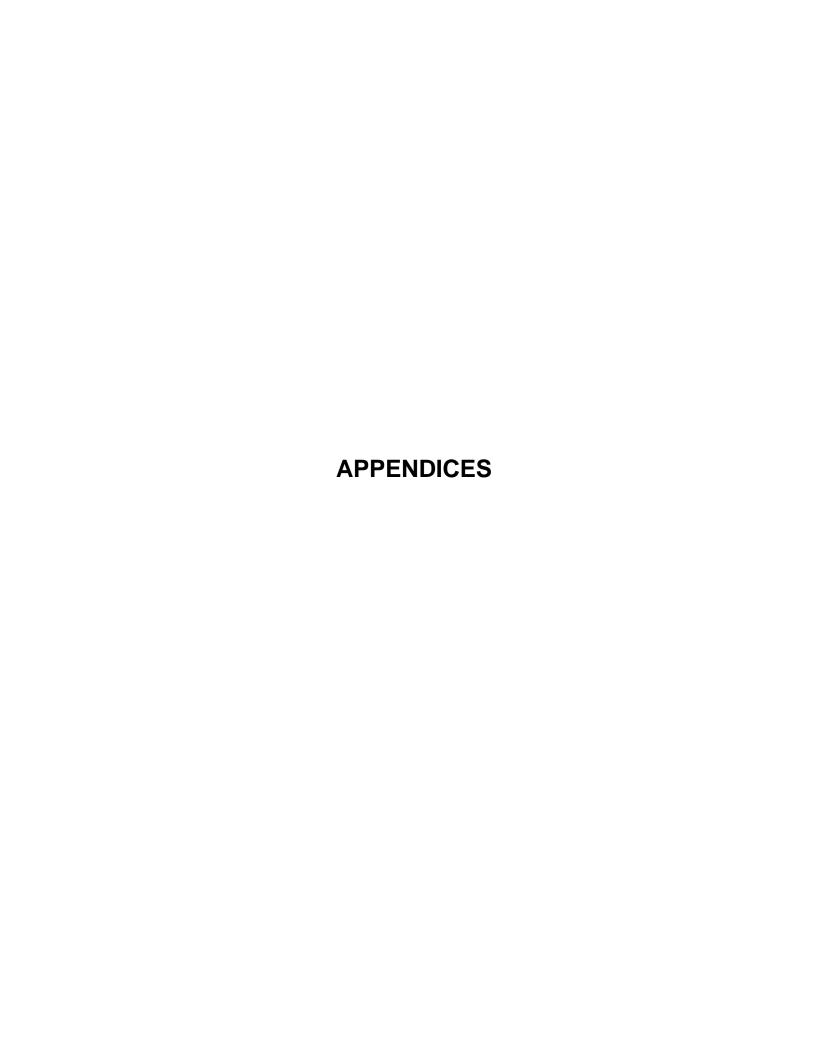
## TABLE 1 Field Soil Screening Data

Evere	est 2 Sta	te #1 H -	Table 1								
Sample Point	EC (mS/cm	PID (ppm)	Soil Description								
ES1 1ft	0.84	0.4	Brown silty sand								
ES1 3ft	0.76	0.9	Brown clayey silt								
ES2 1ft 0.66 0.0 Brown silty sand											
ES2 3ft	•										
ES3 1ft	0.4	0.0	Brown silty sand								
ES3 3ft	0.6	0.0	Brown clayey silt								
ES4 1ft	0.12	0.0	Brown silty sand								
ES4 3ft	0.14	0.0	Brown clayey silt								
ES5 1ft	0.67	0.0	Brown silty sand								
ES5 3ft	0.75	0.0	Brown clayey silt								
Background	0.4	0.0	Tan/brown silty sand								

## TABLE 2 Analytical Results Summary

Everest 2 State #1H - Table 2													
Soil ID	Limits (ppm)	ES1 1ft	ES1 3ft	ES2 1ft	ES2 3ft	ES3 1ft	ES3 3ft	ES4 1ft	ES4 3ft	ES5 1ft	ES5 3ft	Soil Pile	Background
Benzene	10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1.14	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	8.54	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	13.8	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	12.5	<0.150
Total BTEX	50	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	36.1	<0.300
Chlorides	600	32	48	48	32	32	64	<16	32	128	64	25,200	<16
TPH-GRO	5000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	217	<10.0
TPH-DRO	5000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	4,970	<10.0
TPH-ORO	5000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	984	<10.0

<sup>\*</sup>TPH 8015-extended, Chlorides SM4500Cl-B, BTEX 8021B



## APPENDIX A Impacted Area Photographs









### APPENDIX B Water Well Information



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 355341.87

Northing (Y): 3715586.7

Radius: 5000

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.

9/15/17 11:20 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## APPENDIX C Analytical Data



September 22, 2017

KEVIN ELROD KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN, TX 78730

RE: EVEREST C #2

Enclosed are the results of analyses for samples received by the laboratory on 09/13/17 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 1 1' (H702472-01)

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	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	98.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 1 3' (H702472-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	92.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.0	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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KANE ENVIROMENTAL **KEVIN ELROD** 8816 BIG VIEW DRIVE **AUSTIN TX, 78730** Fax To:

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2 Project Number: 17-461

Project Location: NOT GIVEN Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: ES 2 1' (H702472-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	100	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	102	% 34.7-15	7						

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

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 2 3' (H702472-04)

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	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
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DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	102	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	100	% 34.7-15	7						

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KANE ENVIROMENTAL **KEVIN ELROD** 8816 BIG VIEW DRIVE **AUSTIN TX, 78730** Fax To:

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2 Project Number: 17-461

Project Location: NOT GIVEN Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: ES 3 1' (H702472-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	3						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	104	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	111 9	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 111 %

Cardinal Laboratories \*=Accredited Analyte

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

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 3 3' (H702472-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	102	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	113	% 34.7-15	7						

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Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 4 1' (H702472-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	97.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.1	% 34.7-15	7						

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MMc Songh



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

Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 4 3' (H702472-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	101	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	104	% 34.7-15	7						

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Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2 Project Number: 17-461

Project Location: NOT GIVEN Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: ES 5 1' (H702472-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2017	ND	2.01	100	2.00	2.29	
Toluene*	<0.050	0.050	09/20/2017	ND	1.84	92.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	09/20/2017	ND	1.93	96.3	2.00	1.88	
Total Xylenes*	<0.150	0.150	09/20/2017	ND	5.74	95.7	6.00	0.914	
Total BTEX	<0.300	0.300	09/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2017	ND	192	96.1	200	0.181	
DRO >C10-C28	<10.0	10.0	09/15/2017	ND	203	102	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/15/2017	ND					
Surrogate: 1-Chlorooctane	106	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	108	% 34.7-15	7						

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Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: ES 5 3' (H702472-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2017	ND	1.88	94.2	2.00	0.243	
Toluene*	<0.050	0.050	09/21/2017	ND	1.73	86.6	2.00	0.676	
Ethylbenzene*	<0.050	0.050	09/21/2017	ND	1.78	89.2	2.00	0.588	
Total Xylenes*	< 0.150	0.150	09/21/2017	ND	5.45	90.9	6.00	0.259	
Total BTEX	<0.300	0.300	09/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	64.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2017	ND	181	90.5	200	0.835	
DRO >C10-C28	<10.0	10.0	09/17/2017	ND	188	94.0	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	09/17/2017	ND					
Surrogate: 1-Chlorooctane	95.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.1	% 34.7-15	7						

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Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2
Project Number: 17-461

Project Location: NOT GIVEN

Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SOIL PILE (H702472-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.14	0.050	09/21/2017	ND	1.88	94.2	2.00	0.243	
Toluene*	8.54	0.050	09/21/2017	ND	1.73	86.6	2.00	0.676	
Ethylbenzene*	13.8	0.050	09/21/2017	ND	1.78	89.2	2.00	0.588	
Total Xylenes*	12.5	0.150	09/21/2017 09/21/2017	ND ND	5.45	90.9	6.00	0.259	
Total BTEX	36.1	0.300							
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 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	25200	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	217	50.0	09/17/2017	ND	181	90.5	200	0.835	
DRO >C10-C28	4970	50.0	09/17/2017	ND	188	94.0	200	1.21	
EXT DRO >C28-C36	984	50.0	09/17/2017	ND					
Surrogate: 1-Chlorooctane	133	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	164	% 34.7-15	7						

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Received: 09/13/2017 Reported: 09/22/2017

Project Name: EVEREST C #2 Project Number: 17-461

Project Location: **NOT GIVEN**  Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: BACKGROUND (H702472-12)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2017	ND	1.88	94.2	2.00	0.243	
Toluene*	<0.050	0.050	09/21/2017	ND	1.73	86.6	2.00	0.676	
Ethylbenzene*	<0.050	0.050	09/21/2017	ND	1.78	89.2	2.00	0.588	
Total Xylenes*	<0.150	0.150	09/21/2017	ND	5.45	90.9	6.00	0.259	
Total BTEX	<0.300	0.300	09/21/2017	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	<16.0	16.0	09/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/22/2017	ND	181	90.5	200	0.835	
DRO >C10-C28	<10.0	10.0	09/22/2017	ND	188	94.0	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	09/22/2017	ND					
Surrogate: 1-Chlorooctane	98.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	113	% 34.7-15	7						

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### **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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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

Project Manager:	Koun Elrod	۵.	P.O. #:	
Address: 88/6 6.6	Big View Dr: 10	C	Company: Kane	
>	State: TX	zip: 78730 A	Attn:	<i>y</i>
Phone #: 979 456 8507		A	Address: 88/6 8:4 V:CW	dec
Project #: 17 1 6	Project Owner:		city: Austin	000 Hen
Project Name: Project Name:	approved GUACH	S	State: TX Zip: 78736	
n:	hurst C#2	P	Phone #: 28 376 6586	1
Sampler Name: Nat	Vathan Harvey	77	Fax #:	51
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	80
Lab I.D. S	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE	Ch loride
1 53 1		_	1 9-13	
2 651	3	6   1	1 913 915	
3	) ,	6	9-13 950	
1	S	0	1 9-13 945	
S	× .	13	1 9-13 (00%)	
53	W	0 1	1 9-13 1015	
7 63 6	1	61	1 9-15 1036	
8 65 1	3	0	5401 21-6 1	7
9 65 5	- 1	01		0
16 65 5	Ň	6 1 1	1 9-13 1115	

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) 5.5%

Relinquished By:

Relinquished By:

Vathan

Shit ime: Time: Time: Date: 9-13

Received By

Phone Result: Fax Result: REMARKS:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

Received By:

Time:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(576)	(575) 393-2326 FAX (5/5) 393-24/6	BILL TO	A.	ANALYSIS REQUEST
ompany Name:	>	P.O.#:		
a de la constante de la consta	ABIL BIG VIEW DI	COMPANY: KANG		
inv:	State:	ip: 76736 Attn:	0	
e#: 9/	9 456 8307 Fax#:	Address: &Ell Big Vica	1,00	
Project #:	Project Owner:	City:	00 nde	
Project Name:	Graces f	State: 7/	45	
Project Location:	とをした	# Phone #: 2015	201 570 6580 25 6	
ojoot Loomo.	Lange L	Fax #:	5	
Sampler Name:	-	MATRIX PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	AB OR (C)OMP.  NTAINERS  UNDWATER  TEWATER  DGE  DER:  O/BASE:  / COOL		
		# C GR W## C OIII	1120 7 7 1	
	Soil Pile	C 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		
12	By Ir plant of	(1.1	700	lap.
LEASE NOTE: Liability and I	Damages. Cardinal's liability and client's exclusive reme- those to negligence and any other cause whatsoever si	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable paralyses. All claims including those to inegligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	paid by the client for the after completion of the applicable by client, its subsidianies,	
service. In no event shall Card affiliates or successors arising. Relinquished By:	nquished By:	service. In no event shall cardinal be faithed for incidential or consequence and anillates of uncetterial warming out of or related to the performance of services tender by Cardinal regardless of whether such daim is based upon any of the above stated reasons of energy anillates or successors arising out of or related to the performance of services tender by Cardinal regardless of whether such daim is based upon any of the above stated reasons of energy anillates or successors arising out of or related to the performance of services tenders by Cardinal regardless of whether such daim is based upon any of the above stated reasons of energy and of the above stated reasons.  Received By:  Received By:  REMARKS:	Yes No	Add'l Phone #: Add'l Fax #:
Nathan Relinquished By:	Date:	Received By:		
Delivered By:	2.000	Sample Condition CHECKED BY: Cool Intact (Initials)		
Sampler - UPS - Bus - Other:	1	A JAC Bres Wyes		

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

### **APPENDIX D**

**Field Notes** 

	<i>ES</i> #1 /¹ 31	EC ().84 ().76	PID 0.4 0.9	33 34 23/ 103 26, 48s
	FS #2 11 3'	0.66	0.0	33 34,230 103 26.478
.4	Fs #3	0.4	0.0	33 A. 225 103 26,487
	Fs # 4		0.0	33 34, 218 103 26, 430

EC AID

ES#5

33 34,23/
103 24,490

1' 0.67 0.0

3' 0.75 0.0

50,2 fice 2.27 108

borrground 0

33° 39.178'N 0.4

103, 26 457'W

3