

1R - 427-266

REPORTS

DATE:

1-20-09

~~FILE~~ Jct A-19-2

1R427-266

RECEIVED
MAR 25 2009
Environmental Bureau
Oil Conservation Division

CLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Eunice Monument Eumont (EME)	Jct. A-19-2	A	19	21S	36E	Lea	Length	Width	Depth
							eliminated		

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 106 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 10/17/2008 Date Completed 11/7/2008 OCD Witness no

Soil Excavated 222.2 cubic yards Excavation Length 20 Width 25 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 10/29/2008, 11/4/2008 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX, and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	<0.050	<0.050	0.139	0.396	26.3	611	<16
BOTTOM COMP.	<0.050	0.073	0.138	0.384	21.1	465	<16
BACKFILL COMP.	PID = 71.8 (field)				24.2	863	<16

CHLORIDE FIELD TESTS

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 20x25x12-ft-excavation. Chloride field tests performed on each sample yielded low concentrations similar to that of the background sample. Organic vapors measured using a PID yielded some elevated concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride, TPH, and BTEX which yielded low concentrations. The excavated soil was blended on-site and returned to the excavation to ground surface and contoured to the surrounding area. On 11/10/2008, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	147
bottom comp.	12'	123
blended backfill	n/a	180
background	6"	208
vertical delineation trench at 5 ft west of the junction (source)	4'	140
	5'	205
	6'	118
	7'	148
	8'	145
	9'	149
	10'	118
	11'	145
	12'	89

enclosures: photos, lab results, PID field screenings, BTEX study, chloride curve

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Eric Garrison SIGNATURE [Signature] COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE [Signature] DATE 1-20-09

EME Jct. A-19-2

Unit A, Section 19, T21S, R36E



former junction box site

9/31/2008



collecting a soil sample

10/28/2008



squaring up the excavation

10/28/2008



seeding backfilled site

11/10/2008



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

RECEIVED
NOV 05 2008
HOBBS, NM

Receiving Date: 10/30/08
Reporting Date: 10/31/08
Project Number: NOT GIVEN
Project Name: EME A-19-2
Project Location: EME A-19-2

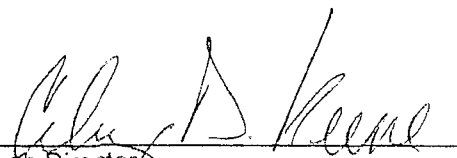
Sampling Date: 10/29/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB

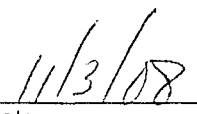
COPY

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
		10/30/08	10/30/08	10/30/08
H16217-1	4 WALL COMP @ 20' X 25'	26.3	611	<16
Quality Control		566	523	500
True Value QC		500	500	500
% Recovery		113	105	100
Relative Percent Difference		3.4	8.1	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director


Date

H16217 TCL RICE

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 whatsoever 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

RECEIVED

NOV 05 2008

RICE OPERATING
HOBBS, NM

Receiving Date: 10/30/08
Reporting Date: 10/31/08
Project Number: NOT GIVEN
Project Name: EME A-19-2
Project Location: EME A-19-2

Sampling Date: 10/29/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

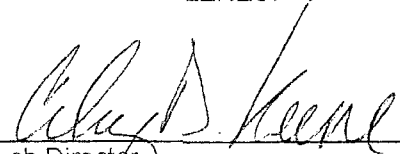
COPY

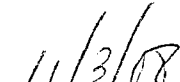
LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	--------------------------	--------------------------

ANALYSIS DATE		10/31/08	10/31/08	10/31/08	10/31/08
H16217-1	4 WALL COMP @ 20' X 25'	<0.050	<0.050	0.139	0.396
H16217-2-5	4 WALL COMP. N, E, S, W	<0.050	<0.050	0.132	0.395
	WALLS				
Quality Control		0.047	0.049	0.050	0.159
True Value QC		0.050	0.050	0.050	0.150
% Recovery		94.0	98.0	100	106
Relative Percent Difference		1.5	1.3	0.4	0.5

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date 11/3/08

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

NOV 05 2008

HOBBS, N.M.

Receiving Date: 10/30/08
Reporting Date: 10/31/08
Project Number: NOT GIVEN
Project Name: EME A-19-2
Project Location: EME A-19-2

COPY

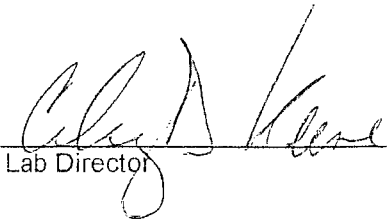
Sampling Date: 10/29/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
------------	-----------	--	--	----------------

ANALYSIS DATE	10/30/08	10/30/08	10/30/08
H16218-1 5 PT BTTM COMP @ 12'	21.1	465	<16
Quality Control	566	523	500
True Value QC	500	500	500
% Recovery	113	105	100
Relative Percent Difference	3.4	8.1	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI/B

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director

11/3/08
Date

H16218 TCL RICE

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 whatsoever 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 10/30/08
Reporting Date: 10/31/08
Project Number: NOT GIVEN
Project Name: EME A-19-2
Project Location: EME A-19-2

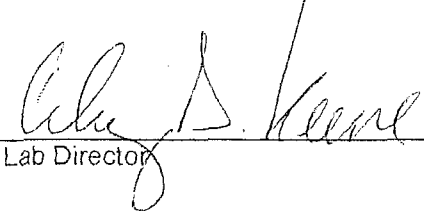
COPY

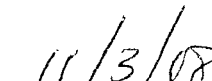
Sampling Date: 10/29/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBE	SAMPLE ID	ETHYL TOTAL			
		BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE		10/31/08	10/31/08	10/31/08	10/31/08
H16218-1	5 PT BTTM COMP @ 12'	<0.050	0.073	0.138	0.384
H16218-2-6	5 PT BTTM COMP #1, #2, #3, #4, #5	<0.050	0.084	0.175	0.478
Quality Control		0.047	0.049	0.050	0.159
True Value QC		0.050	0.050	0.050	0.150
% Recovery		94.0	98.0	100	106
Relative Percent Difference		1.5	1.3	0.4	0.5

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: <i>Kyle Operating</i>										P.O. #:									
Project Manager: <i>ERIC GARRISON</i>										Company:									
Address: <i>122 W Taylor</i>										Attn:									
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>										Address:									
Phone #: <i>393-9174</i> Fax #: <i>(325) 397-1471</i>										City:									
Project #:										State:									
Project Name: <i>EME A-19-2</i>										Phone #:									
Project Location: <i>EME A-19-2</i>										Fax #:									
Sampler Name: <i>ERIC GARRISON</i>																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G) RAB OR (C) OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	PRESERV	MATRIX	DATE	TIME	SAMPLING			
H116218-1	<i>SPR BITUMCOMP #12</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:55</i>	<i>+</i>			
-2	<i>SPR BITUMCOMP #1</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:30</i>	<i>+</i>			
-3	<i>SPR BITUM #2</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:35</i>	<i>+</i>			
-4	<i>SPR BITUM #3</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:40</i>	<i>+</i>			
-5	<i>SPR BITUM #4</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:45</i>	<i>+</i>			
-6	<i>SPR BITUM #5</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10-24-08</i>	<i>14:50</i>	<i>+</i>			

8015m TPH
CL
BTEX
Composite in Lab
BTEX ONLY

COPY

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

Relinquished By: <i>Eric Garrison</i>	Date: <i>10-30-08</i>	Received By: <i>Victor Lab But</i>	Phone Result: ☐ Yes ☐ No	Add'l Phone #: ☐ Yes ☐ No
Relinquished By: <i>Eric Garrison</i>	Time: <i>8:10</i>	Received By: <i>Victor Lab But</i>	Fax Result: ☐ Yes ☐ No	Add'l Fax #: ☐ Yes ☐ No
REMARKS:				

Delivered By: (Circle One) <i>Sample</i> - UPS - Bus - Other:	Sample Condition Cool ☐ Intact ☐	Checked By: <i>Eric Garrison</i>
--	---	----------------------------------

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

COPY

CK.	
MODEL	
NO.	

MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7600	SERIAL NO: 110-013744
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-023920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 5-16-09
FILL DATE: 11-16-01	METER READING ACCURACY: 100 PPM

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	A-19-2	A	19	215	36E

4Wall comp

5PT BTM

SAMPLE ID	PID	SAMPLE ID	PID
4Wall comp	214	5PT BTM comp	117
NWall comp	25	#1	9.0
SWall comp	7.0	#2	0.0
EWall comp	297	#3	191
WWall comp	97.8	#4	0.0
		#5	61.4

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: *Euro Garcia*

DATE: 10-28-08



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 11/04/08
Reporting Date: 11/06/08
Project Number: NOT GIVEN
Project Name: EME A-19-2
Project Location: EME A-19-2

COPY

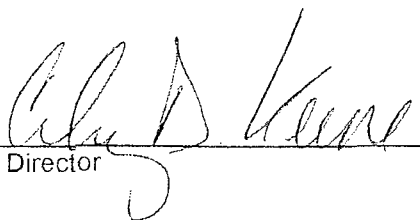
Sampling Date: 11/04/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
------------	-----------	--	--	----------------

ANALYSIS DATE	11/06/08	11/06/08	11/05/08
H16267-1 BLENDED BACKFILL	24.2	863	< 16
Quality Control	590	505	490
True Value QC	500	500	500
% Recovery	118	101	98.0
Relative Percent Difference	8.8	3.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director


Date

H16267 TCL RICE

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 whatsoever 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

(575) 393-2326 Fax (575) 393-2476

2000

Company Name: **Rice Operating**
 Project Manager: **Eric Garrison**
 Address: **122 W Taylor**
 City: **Hobbs** State: **NM** Zip: **88240**
 Phone #: **505-398-9171** Fax #: **505-398-1471**
 Project #: _____
 Project Name: **EME H-19-2**
 Project Location: **EME H-19-2**
 Sampler Name: **Eric Garrison**

Analysis Request

COPY

Bill To

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

Matrix

WASTEWATER _____
 SOIL _____
 OIL _____
 SLUDGE _____
 OTHER: _____

Preserv

ICE/COOL _____
 ACID/BASE: _____
 OTHER: _____

Sampling

DATE: **11-1-08** TIME: **14:55**

Lab I.D. Sample I.D.

H16262H Blended backfill

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Received By: **[Signature]** Date: **11/4/08** Time: **4:30p**

Received By: _____ Date: _____ Time: _____

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

Checked By: _____ (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2446.

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

COPY

CK.
MODEL
NO.

☒

MODEL: PGM 7300
MODEL: PGM 7600
MODEL: PGM 7600
MODEL: PGM 7600

SERIAL NO: 590-000183
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-023920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 5-16-09
FILL DATE: 11-16-07	METER READING ACCURACY: 2000 PPM

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	A-19-2	A	19	R/S	36E

Blended Backfill

SAMPLE ID	PID	SAMPLE ID	PID
Blended Backfill Comp	71.8		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE

Ed Garrison

DATE

11-1-08

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME
Site: Jct. A-19-2

Date: 10/29/2008
Sampler: Eric Garrison

Laboratory: Cardinal
Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	9.0	<0.050	0.073	0.138	0.384
	2	0.0				
	3	191.0				
	4	0.0				
	5	61.4				
			LAB COMPOSITE (mg/kg)			
			<0.050	0.084	0.175	0.478

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME
Site: Jct. A-19-2

Date: 10/29/2008
Sampler: Eric Garrison

Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)		
			Benzene	Toluene	Ethyl Benzene Total Xylenes
4-wall composite from 20x25x12	NORTH wall	25.0	<0.050	0.139	0.396
	SOUTH wall	7.0			
	EAST wall	247.0			
	WEST wall	97.8			
			LAB COMPOSITE (mg/kg)		
			<0.050	<0.050	0.132 0.395

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

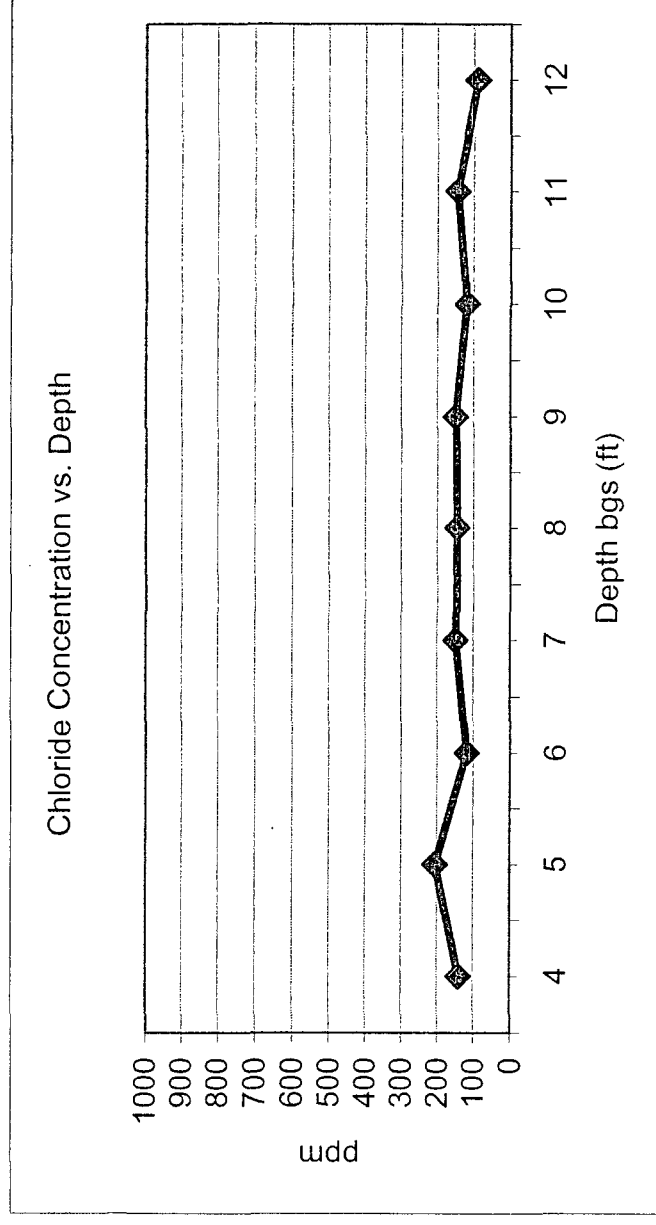
Revised Junction Box Upgrade Work Plan (July 16, 2003)

EME A-19-2

Unit 'A', Sec. 19, T21S, R36E

Backhoe samples at 5 ft west of the junction (source)

Depth bgs (ft)	Cl ppm
4	140
5	205
6	118
7	148
8	145
9	149
10	118
11	145
12	89



Groundwater = 106 ft