

1R - 427-278

REPORTS

DATE:

1-21-09

43

EME L-32 Vent

IR427-278

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		
							Length	Width	Depth
Eunice Monument Eumont (EME)	L-32 vent	L	32	20S	37E	Lea	eliminated		

LAND TYPE: BLM STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 124 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/6/2007 Date Completed 7/17/2007 OCD Witness no

Soil Excavated 89 cubic yards Excavation Length 20 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 7/11/2008 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.	<0.004	0.007	0.023	0.183	<10.0	702	448
BOTTOM COMP.	<0.010	0.255	0.218	1.661	136	1440	384
BACKFILL COMP.	<0.004	0.045	0.045	0.481	73.8	1620	448

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 20x10x12-ft-deep excavation. Chloride field tests were performed on each sample, which yielded generally low concentrations. Organic vapors were measured using a PID, which yielded some elevated concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride, TPH, and BTEX; which confirmed concentrations were within NMOCD guidelines. The excavated soil was blended on-site and returned to the excavation to ground surface and contoured to the surrounding area. On 7/17/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

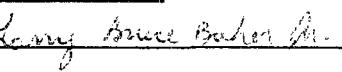
LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	475
bottom comp.	12'	355
blended backfill	n/a	446
background	6"	116
	1'	282
	2'	647
	3'	894
	4'	752
	5'	806
	6'	712
	7'	729
	8'	622
	9'	500
	10'	413
	11'	391
	12'	358

enclosures: photos, lab results, 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 Noel Camrona SIGNATURE  COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE 

DATE 1-21-09

EME L-32 vent

Unit L, Section 32, T20S, R37E



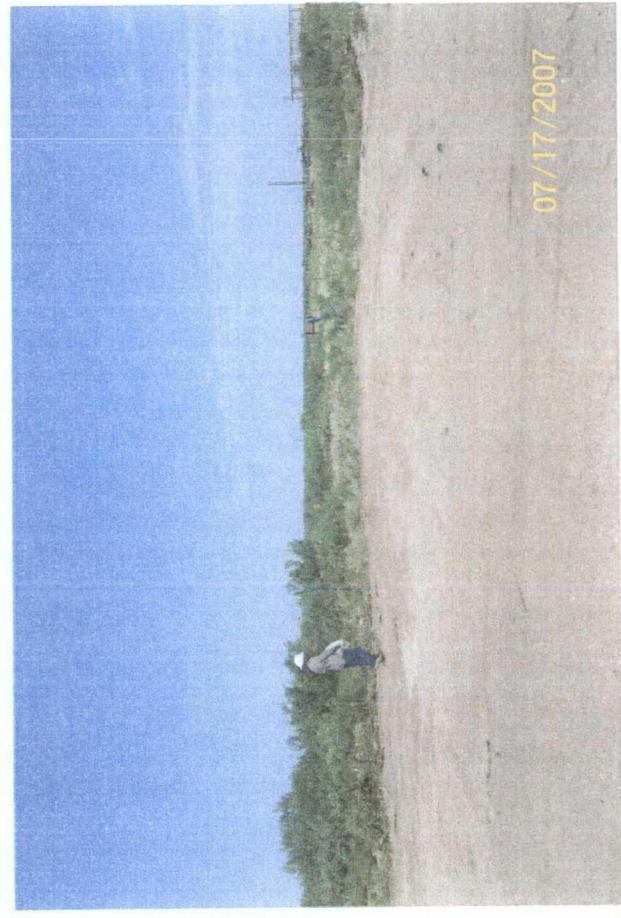
site prior to excavation

06/06/2007

6/6/2007

backfilling excavation

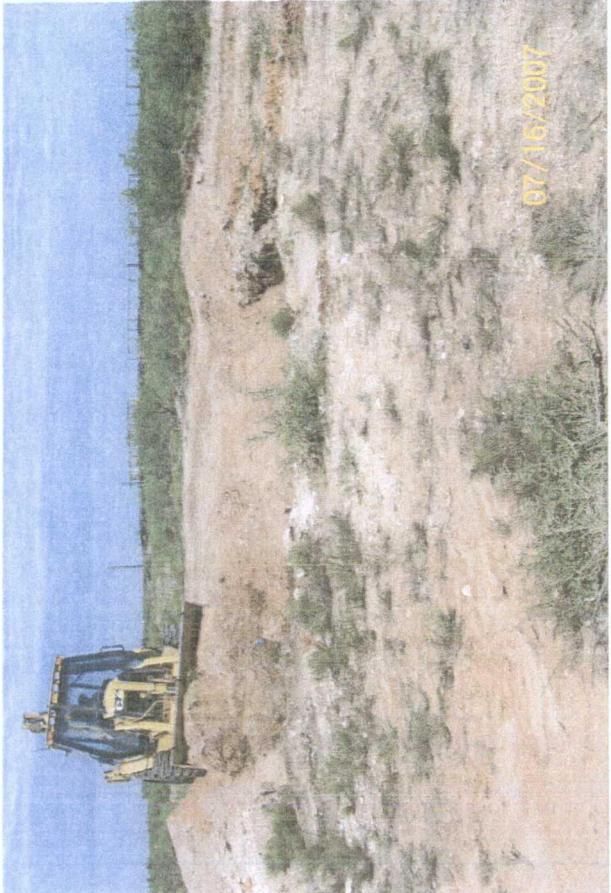
07/16/2007



seeding backfilled site

07/17/2007

7/17/2007



site complete

07/17/2007

7/17/2007



ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE TX 79605

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS NM 88240

COPY

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 07/11/07
Reporting Date: 07/12/07
Project Number: NOT GIVEN
Project Name: EME VENT L-32
Project Location: NOT GIVEN

Sampling Date: 07/11/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₅) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		07/12/07	07/12/07	07/12/07
H12884-1	5 PT. BTTM. COMP @ 12' FIELD	136	1440	384
H12884-2	4 WALL COMP. 20'x10' FIELD	<10.0	702	448
H12884-3	BLENDED BACKFILL	73.8	1620	448
Quality Control		732	743	500
True Value QC		800	800	500
% Recovery		91.5	92.8	100
Relative Percent Difference		<0.1	1.3	1.0

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

*Analyses performed on 1:4 w:v aqueous extracts.

by Jeff Alcolea
Chemist

7/12/07
Date

H12884A 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.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

COPY

Receiving Date: 07/11/07
Reporting Date: 07/13/07
Project Number: NOT GIVEN
Project Name: EME VENT L-32
Project Location: NOT GIVEN

Sampling Date: 07/11/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AB

LAB NO	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLEMES (mg/Kg)
	ANALYSIS DATE	07/12/07	07/12/07	07/12/07	07/12/07
H12884-1	5 PT. BTTM. COMP @ 12' FIELD	<0.010	0.255	0.218	1.661
H12884-2	4 WALL COMP. 20'x10' FIELD	<0.004	0.007	0.023	0.183
H12884-3	BLENDING BACKFILL	<0.004	0.045	0.045	0.481
H12884-4	COMP. OF BTTM. #1-#5 IN LAB	0.046	0.476	0.328	2.18
H12884-5	COMP. OF NORTH, SOUTH, IN EAST, WEST WALL COMPS. LAB	<0.002	0.008	0.015	0.122
Quality Control		0.111	0.101	0.102	0.313
True Value QC		0.100	0.100	0.100	0.300
% Recovery		111	101	102	104
Relative Percent Difference		5.0	7.1	8.5	8.7

METHOD: EPA SW-846 8021 B

Bruce J. Steele
Chemist

7/13/07
Date

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. Cardinal shall not be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profit 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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beachwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (326) 673-7020 (505) 393-2326 Fax (606) 393-2476

Page 6 of 22

ANALYSIS REQUEST											
COPY											
Customer Name: <i>PTT Black Leader</i>		Project Manager: <i>Bob Black Leader</i>		P.O. #: <i></i>		Company: <i></i>		Address: <i>1100 N. Hwy 281 Box 90</i>		City: <i>Hobbs, NM</i>	
Phone #: <i>505) 393-2724</i>		Fax #: <i>505) 393-2471</i>		Alt#: <i></i>		City: <i></i>		State: <i>Zip:</i>		Phone #: <i></i>	
Project #: <i></i>		Project Owner: <i></i>		City: <i></i>		State: <i></i>		Phone #: <i></i>		Fax #: <i></i>	
Project Name: <i>Black Hawk</i>		Project Location: <i>Black Hawk</i>		Sampling Date: <i>10/13/01</i>		Sampling Time: <i>10:00 AM</i>		Date: <i>10/13/01</i>		Time: <i>10:00 AM</i>	
Lab I.D.		Sample I.D.		Matrix		Preserv.		Sampling		Other:	
FOR LAB USE ONLY				WATER		OTHER:		DATE		TIME	
1-12551-1		50ft. Below Garage, Field		C1		ICE / COOL		7/1/01		10:00 AM	
-2		4ft. below Garage, Field		C1		SLUDGE		7/1/01		10:00 AM	
-3		Blown out Backfill		C1		OIL		7/1/01		10:00 AM	
-4		13ft. from H-H		G1		WASTEWATER		7/1/01		10:00 AM	
-5		Brown, H-H		G1		SOIL		7/1/01		10:00 AM	
-6		Brown, H-H		G1		CONTAINERS		7/1/01		10:00 AM	
-7		Brown, H-H		G1		GERM OR COMP.		7/1/01		10:00 AM	
-8		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-9		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-10		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-11		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-12		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-13		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-14		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-15		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-16		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-17		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-18		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-19		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-20		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-21		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-22		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-23		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-24		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-25		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-26		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-27		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-28		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-29		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-30		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-31		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-32		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-33		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-34		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-35		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-36		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-37		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-38		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-39		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-40		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-41		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-42		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-43		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-44		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-45		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-46		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-47		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-48		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-49		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-50		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-51		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-52		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-53		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-54		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-55		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-56		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-57		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-58		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-59		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-60		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-61		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-62		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-63		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-64		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-65		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-66		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-67		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-68		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-69		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-70		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-71		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-72		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-73		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-74		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-75		South Wall Coffer		C1		WATER		7/1/01		10:00 AM	
-76		South Wall Coffer		C1		CONTAINERS		7/1/01		10:00 AM	
-77		South Wall Coffer		C1		GERM OR COMP.		7/1/01		10:00 AM	
-78		South Wall Coffer		C1		ACID/BASE		7/1/01		10:00 AM	
-79		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-80		South Wall Coffer		C1		SLUDGE		7/1/01		10:00 AM	
-81		South Wall Coffer		C1		OIL		7/1/01		10:00 AM	
-82		South Wall Coffer		C1		WATER		7/1/01		10:	

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME
Site: L-32 vent

Date: 7/11/2007
Sampler: Noel Carmona

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	1229.0				
	2	32.1				
	3	883.0	<0.010	0.255	0.218	1.661
	4	970.0				
	5	996.0				
LAB COMPOSITE (mg/kg)						
			0.046	0.476	0.328	2.18

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: L-32 vent

Date: 7/11/2007
Sampler: Noel Carmona

Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)		
			Benzene	Toluene	Ethyl Benzene
4-wall composite from 20x10x12 ft	NORTH wall	10.7	<0.004	0.007	0.023
	SOUTH wall	98.6			0.183
	EAST wall	415.0			
	WEST wall	61.5			
LAB COMPOSITE (mg/kg)					
		<0.002	0.008	0.015	0.122

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)

CHLORIDE CONCENTRATION CURVE

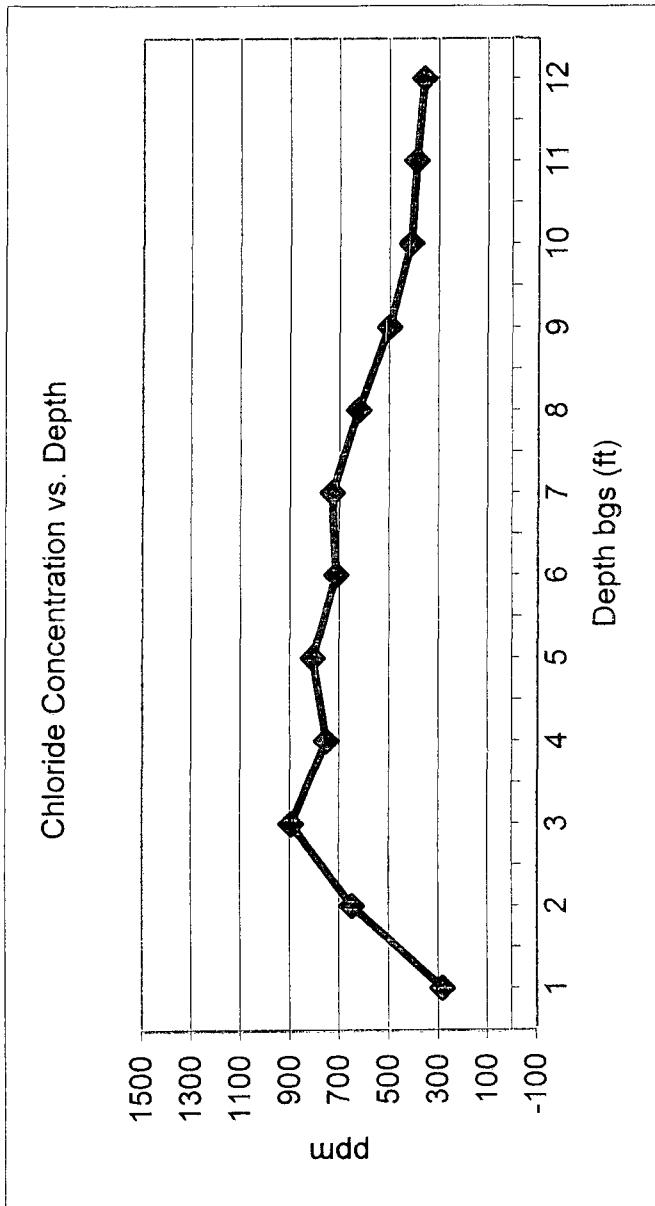
RICE Operating Company

EME L-32 vent

Unit 'L', Sec. 32, T20S, R37E

Backhoe samples at 10 ft south of the junction (source)

Depth bgs (ft)	[Cl] ppm
1	282
2	647
3	894
4	752
5	806
6	712
7	729
8	622
9	500
10	413
11	391
12	358



Groundwater = 124 ft