

**1R - 427 - 135**

**REPORTS**

**DATE:**

**3-18-04**

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EME Wallace State  
EOL

1R0427-135

**FINAL**  
**REPORT**

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	Wallace State EOL	L	3	21S	36E	Lea	moved 60 ft south		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 3/2/2004 Date Completed 3/12/2004 OCD Witness No

Soil Excavated 178 cubic yards Excavation Length 20 Width 20 Depth 12 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 3/5/2004 Sample Depth 12 ft

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SIDEWALLS	0.0	<10.0	<10.0	624
BOTTOM	0.0	<10.0	75.3	320
REMIATED	0.0	<10.0	<10.0	992

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.

General Description of Remedial Action: This EOL box was excavated with a backhoe while PID readings and chloride tests were performed at regular depth intervals.

Chloride concentrations exhibited a conclusive decline vertically and laterally (see graphs).

All PID readings were 0.0 and TPH laboratory results confirmed concentrations well below

NMOCD guidelines. The 20 x 20 x 12-ft-deep excavated was backfilled with the excavated

soil that was landfarmed on site and the surface was contoured to its surroundings. The

disturbed surface will be re-seeded with a blend of native vegetation. This EOL junction

has been moved and a new watertight box has been built 60 ft south.

enclosures: chloride graphs, photos, lab results, PID readings

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH (ft)	ppm
Vertical	8	6158
at Source	9	5398
	10	2196
	11	966
	12	747
	13	446
	14	274
4-wall comp.	n/a	539
bottom comp.	12	271
remed. comp.	n/a	815

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

DATE 3/18/2004 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Project Scientist

# EME Wallace State EOL

Unit 'L', Sec. 3, T21S, R36E



Undisturbed junction box

11/19/2003



20 x 20 x 12-ft-deep excavation (looking south)

3/5/2004



Complete new junction box 60 ft south of former

12/31/2003



Backfilled site (T-post in center)

3/12/2004

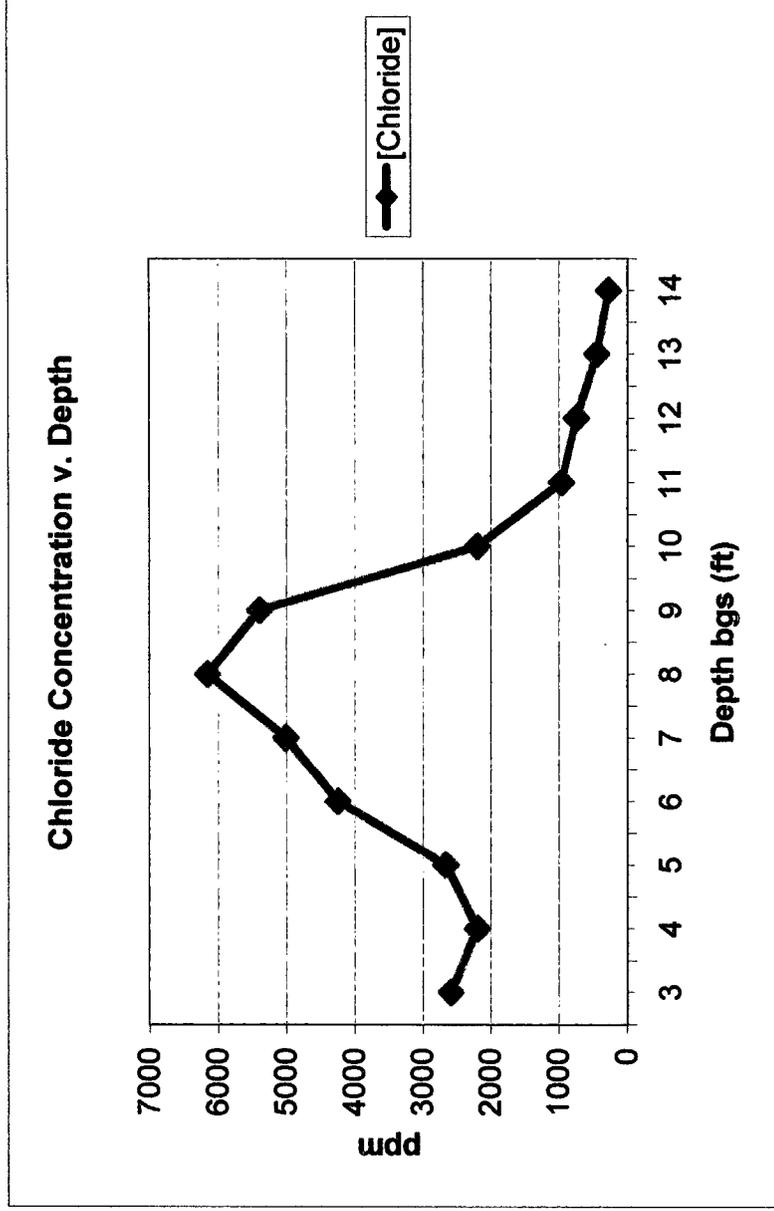
**EME Wallace State EOL**

Unit L, Sec. 3, T21S, R36E

Vertical Delineation at Source

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
3	2592
4	2196
5	2669
6	4244
7	5008
8	6158
9	5398
10	2196
11	966
12	747
13	446
14	274

Groundwater = 200 ft



**CHLORIDE CONCENTRATION CURVE**

**RICE Operating Company**

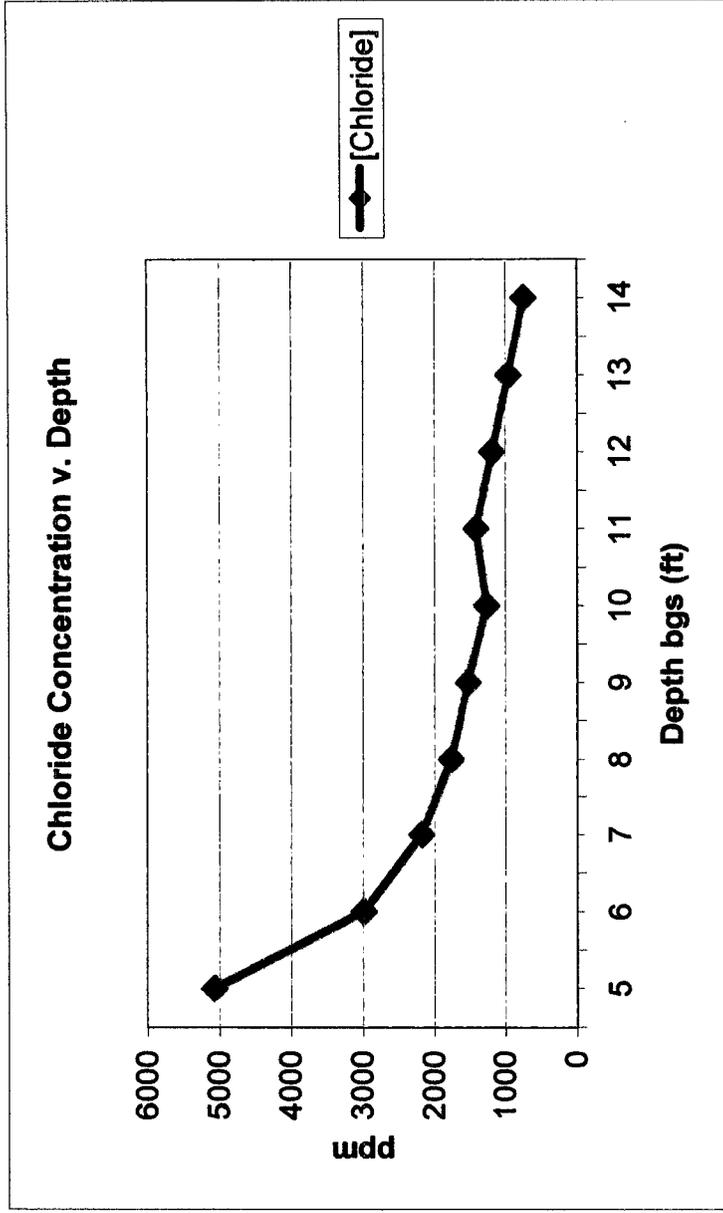
**EME Wallace State EOL**

Unit L, Sec. 3, T21S, R36E

*5 ft North of junction*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
5	5071
6	2990
7	2182
8	1764
9	1524
10	1263
11	1414
12	1187
13	959
14	748

Groundwater = 200 ft



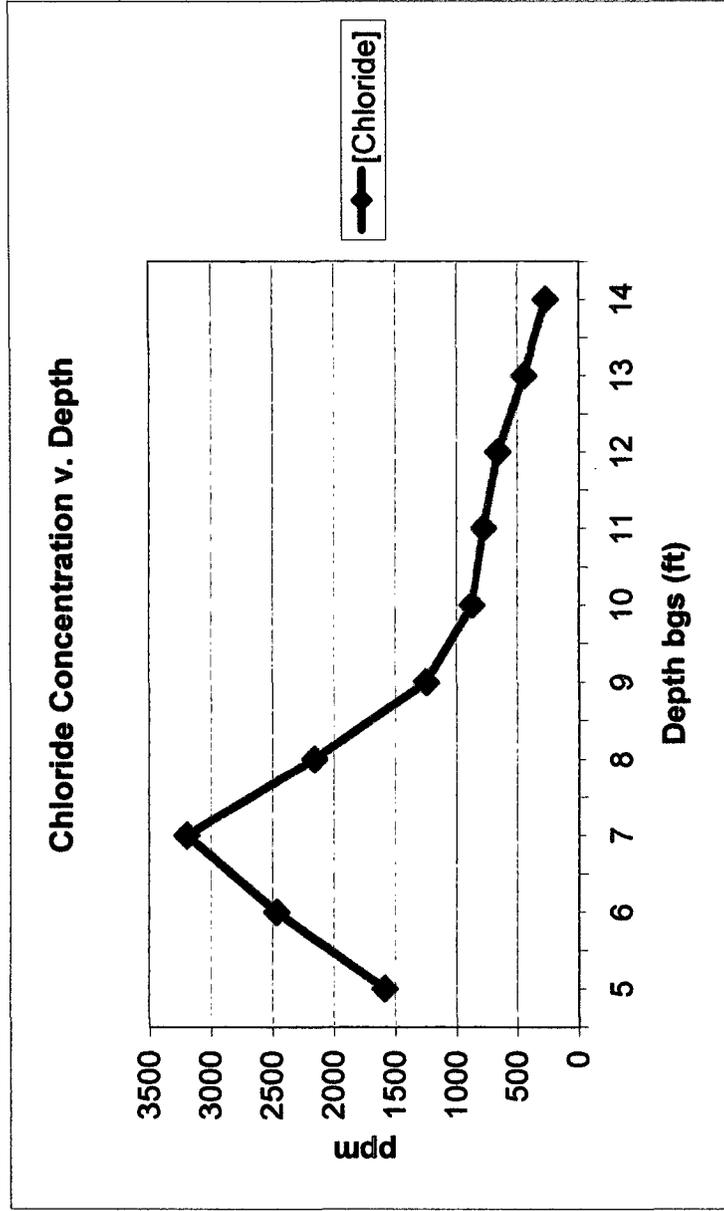
**EME Wallace State EOL**

Unit L, Sec. 3, T21S, R36E

*5 ft South of junction*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
5	1585
6	2467
7	3198
8	2159
9	1247
10	870
11	774
12	657
13	446
14	268

Groundwater = 200 ft

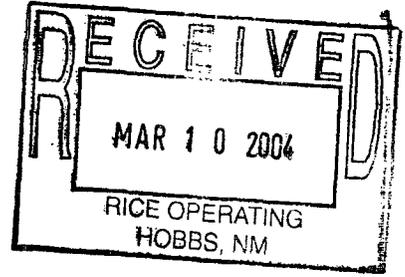




**ARDINAL  
LABORATORIES**

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ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: KRISTIN FARRIS  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/05/04  
Reporting Date: 03/08/04  
Project Number: NOT GIVEN  
Project Name: EME METEX WALLACE STATE  
Project Location: LEA COUNTY, NM

Sampling Date: 03/05/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		03/05/04	03/05/04	03/08/04
H8510-1	REMEDIATED BACKFILL	<10.0	<10.0	992
H8510-2	4 WALL COMP.	<10.0	<10.0	624
H8510-3	BOTTOM 12' COMP.	<10.0	75.3	320
Quality Control		771	812	1000
True Value QC		800	800	1000
% Recovery		96.4	101	100
Relative Percent Difference		8.0	1.4	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.

*Burgess J. Cook*  
Chemist

3/8/04  
Date

H8510.XLS

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.





**ENVIRONMENTAL TECHNOLOGY GROUP, INC.**

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**VOC FIELD TEST REPORT FORM**

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S  
CALIBRATION GAS  
GAS COMPOSITION: ISOBUTYLENE  
AIR

SERIAL NO: 103999

100 PPM  
BALANCE

LOT NO: 67431  
EXP. DATE: 11/24  
METER READING  
ACCURACY: 100.3

FILL DATE: 3-5-04  
ACCURACY: 1.0 ppm ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	↑	L	3	21	36

*Meter Wallace St*

SAMPLE	PID RESULT	SAMPLE	PID RESULT
<i>Remediated</i>		<i>10' South</i>	
<i>Backfill</i>	<i>0.0</i>	<i>Comp</i>	<i>0.0</i>
<i>4 Well</i>		<i>10' West</i>	
<i>Comp</i>	<i>0.0</i>	<i>Comp</i>	<i>0.0</i>
<i>Bottom 12'</i>		<i>10' East</i>	
<i>Comp</i>	<i>0.0</i>	<i>Comp</i>	<i>0.0</i>
<i>10' North</i>			
<i>Comp</i>	<i>0.0</i>		

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

*Mary Stark*  
Signature

*Field Tech*  
Title

*3-5-04*  
Date