

**1R - 427 - 45**

**REPORTS**

**DATE:**

**2-23-2004**

EME T-5

1R0427-45

# FINAL REPORT

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	T-5	T	5	21 S	36 E	Lea	Length	Width	Depth
							box eliminated		

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

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 10/14/2003 Date Completed 10/23/2003 OCD Witness No

Soil Excavated 224 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 10/20/2003 Sample Depth 12 ft bgs

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
SIDEWALLS	<0.005	<0.005	<0.005	<0.015	<10.0	<10.0	see individual wall results
BOTTOM	<0.005	<0.005	<0.005	<0.015	<10.0	<10.0	352
REMEDIATED	<0.005	<0.005	<0.005	<0.015	<10.0	<10.0	256

**General Description of Remedial Action:** This box was surrounded by healthy vegetation when it was eliminated. A 20 x 25 x 12-ft-deep excavation was produced with a backhoe while chloride and VOC's were delineated vertically and laterally. Although the greatest source of impact was found 10 ft west of the junction, chloride concentrations exhibited a conclusive trend of decline (see graphs). BTEX and TPH concentrations were well below NMOCD guidelines. Although the west wall exhibited elevated PID readings, a composite under laboratory conditions confirmed BTEX concentrations below NMOCD guidelines (see lab results and PID readings). The excavated soil was landfarmed on site and then backfilled into the hole. A new junction box is not required at this site as the pipeline has been re-plumbed straight through with poly pipe. The disturbed surface is expected to return to productive capacity at a normal rate.

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

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH (ft)	ppm
Vertical	8	546
	10	678
	12	600
	14	425
10 ft West	6	3403
	8	1314
	10	880
	12	696
	14	355

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

DATE 2/23/2004 PRINTED NAME Kristin Farris  
SIGNATURE Kristin Farris TITLE Project Scientist

## EME jct. T-5

October 2003



Undisturbed Junction Box



Excavation



20 x 25 x 12-ft deep Excavation



Seeding Disturbed Surface

12/18/2003

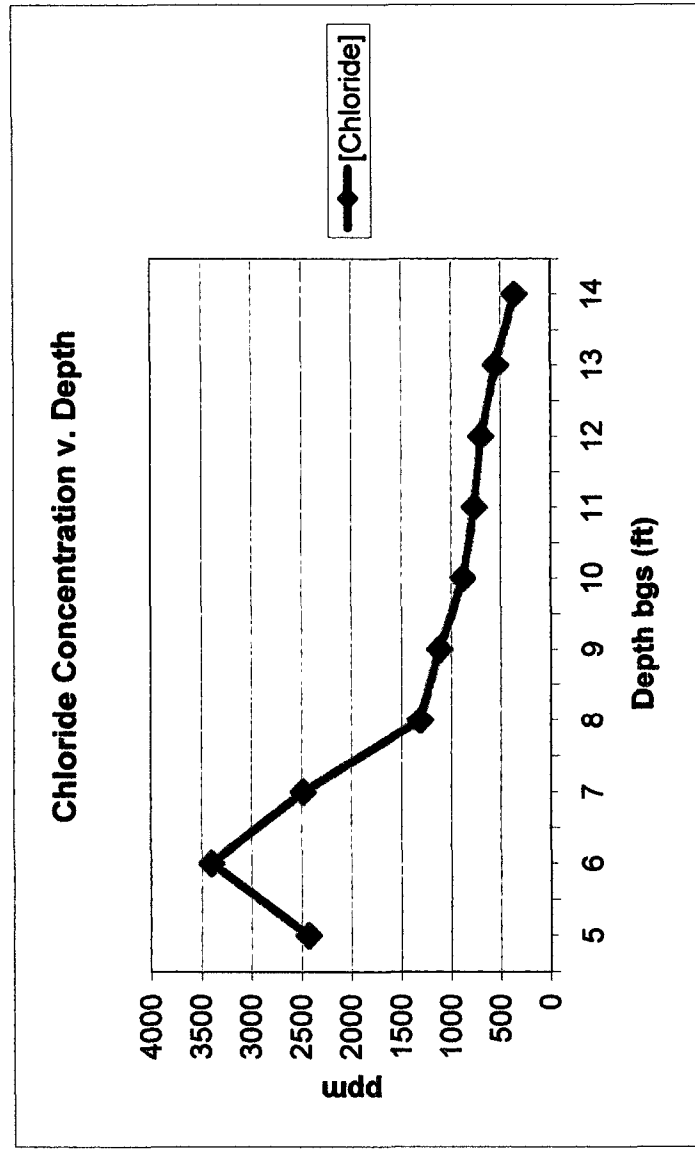
**EME jct. T-5**

T21S, R36E

10 ft West of Junction

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
5	2431
6	3403
7	2484
8	1314
9	1117
10	880
11	764
12	696
13	547
14	355

Groundwater = 200 ft

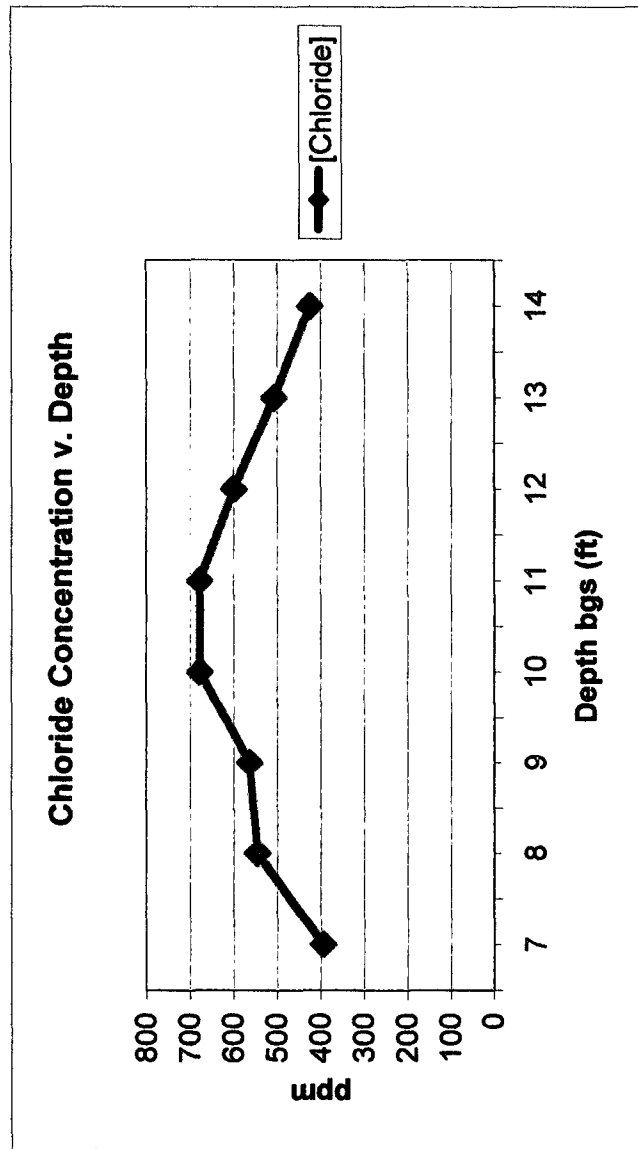


**EME jct. T-5**

T21S, R36E

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
7	395
8	546
9	564
10	678
11	678
12	600
13	508
14	425

Groundwater = 200 ft





# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

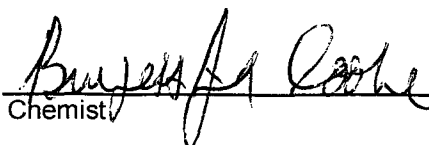
Receiving Date: 10/21/03  
Reporting Date: 10/22/03  
Project Number: NOT GIVEN  
Project Name: EMET-5  
Project Location: LEA CO., NM

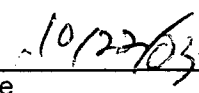
Sampling Date: 10/20/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH

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)	Cl* (mg/Kg)
		10/21/03	10/21/03	10/22/03
H8104-1	BOTTOM 12'	<10.0	<10.0	352
H8104-2	REMEDIED BACKFILL	<10.0	49.0	256
H8104-3	10' NORTH WALL	<10.0	<10.0	176
H8104-4	10' SOUTH WALL	<10.0	<10.0	176
H8104-5	10' EAST WALL	<10.0	<10.0	96
H8104-6	15' WEST SAMPLE 1	<10.0	<10.0	256
H8104-7	15' WEST SAMPLE 2	<10.0	234	720
H8104-8	15' WEST SAMPLE 3	<10.0	576	688
H8104-9	15' WEST SAMPLE 4	<10.0	33.3	752
H8104-10	15' WEST SAMPLE 5	<10.0	<10.0	128
H8104-11	COMPOSITE OF 6-10	<10.0	350	496
Quality Control		761	816	976
True Value QC		800	800	1000
% Recovery		95.1	102	97.6
Relative Percent Difference		1.9	3.6	1.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

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

  
Chemist

  
Date

## H8104A.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.



# ARDINAL LABORATORIES

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

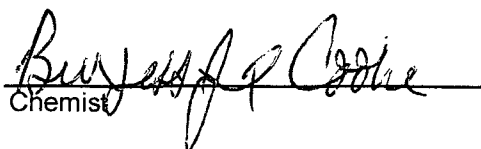
ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: KRISTIN FARRIS  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

Receiving Date: 10/21/03  
Reporting Date: 10/23/03  
Project Number: NOT GIVEN  
Project Name: EME T-5  
Project Location: LEA CO., NM

Analysis Date: 10/21/03 & 10/22/03  
Sampling Date: 10/20/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
H8104-1	BOTTOM 12'	<0.005	<0.005	<0.005	<0.015
H8104-2	REMEDIED BACKFILL	<0.005	<0.005	<0.005	<0.015
H8104-3	10' NORTH WALL	<0.005	<0.005	<0.005	<0.015
H8104-4	10' SOUTH WALL	<0.005	<0.005	<0.005	<0.015
H8104-5	10' EAST WALL	<0.005	<0.005	<0.005	<0.015
H8104-6	15' WEST SAMPLE 1	<0.005	<0.005	<0.005	<0.015
H8104-7	15' WEST SAMPLE 2	<0.005	<0.005	<0.005	<0.015
H8104-8	15' WEST SAMPLE 3	<0.005	0.008	<0.005	<0.015
H8104-9	15' WEST SAMPLE 4	<0.005	<0.005	<0.005	<0.015
H8104-10	15' WEST SAMPLE 5	<0.005	<0.005	<0.005	<0.015
H8104-11	COMPOSITE OF 6-10	<0.005	<0.005	<0.005	<0.015
Quality Control		0.107	0.099	0.094	0.276
True Value QC		0.100	0.100	0.100	0.300
% Recovery		107	99.3	93.9	92.2
Relative Percent Difference		6.1	0.6	6.6	8.5

METHOD: EPA SW-846 8260

  
Chemist

10/23/03  
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. 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.

H8104B2.XLS





2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page \_\_\_\_\_ of \_\_\_\_\_

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**PO #:** **BILL TO**ANALYSIS REQUEST

**LAB I.D.** **Sample I.D.**

(G)RAB OR (C)OMP.
# CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID:
ICE / COOL
OTHER :

DATE	TIME
------	------

TPH, 8015M  
CHLORIDES  
BTEX

AB104-1	Bottom 12'	C	1	✓	10/20/03	11:11	✓	✓	✓
-2	Remediated Backfill	C <td>1</td> <td>✓</td> <td>10/17/03 <th>11:20</th> <th>✓</th> <th>✓</th> <th>✓</th> </td>	1	✓	10/17/03 <th>11:20</th> <th>✓</th> <th>✓</th> <th>✓</th>	11:20	✓	✓	✓
-3	10' North Wall	C <td>1</td> <td>✓</td> <td>10/20/03</td> <td>10:15</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	✓	10/20/03	10:15	✓	✓	✓
-4	10' South Wall	C <td>1</td> <td>✓</td> <td>10/20/03</td> <td>12:50</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	✓	10/20/03	12:50	✓	✓	✓
-5	10' East Wall	C <td>1</td> <td>✓</td> <td>10/20/03</td> <td>12:15</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	✓	10/20/03	12:15	✓	✓	✓
-6	15' West Spc w/1	C <td>1</td> <td>✓</td> <td>10/20/03</td> <td>1:00</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	✓	10/20/03	1:00	✓	✓	✓
-7	-	SPC w/2	G <td>1</td> <td>10/20/03</td> <td>4:11</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	10/20/03	4:11	✓	✓	✓
-8	-	SPC w/3	G <td>1</td> <td>10/20/03</td> <td>1:17</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	10/20/03	1:17	✓	✓	✓
-9	-	SPC w/4	G <td>1</td> <td>10/20/03</td> <td>1:22</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	10/20/03	1:22	✓	✓	✓
-10	-	SPC w/5	G <td>1</td> <td>10/20/03</td> <td>1:29</td> <td>✓</td> <td>✓</td> <td>✓</td>	1	10/20/03	1:29	✓	✓	✓

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.

**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.

<b>Sampler Relinquished:</b>	<b>Date:</b> 10.27.07	<b>Received By:</b>
------------------------------	-----------------------	---------------------

Phone Result ☐ Yes ☐ No Additional Fax #:

Fax Result: ☐ Yes ☐ No

REMARKS:

Reimbursement By:	<i>Ray J. Galt</i>	Date: 1/2/03	Received By: (Lab Staff)
		Time:	

1

**Delivered By: (Circle One)**

Sample Condition	CHECKED BY:

10

**Sampler - UPS - Bus - Other:**

(Initials)

10

**+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.**

# RECEIVED

JUL 24 2003

RICE OPERATING  
HOBBS, NM



# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_ of \_\_\_\_

Company Name: Pice Operating Co

Project Manager: Bill To PO #: \_\_\_\_\_

Address: \_\_\_\_\_ Company: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Attn: \_\_\_\_\_

Phone #: \_\_\_\_\_ Address: \_\_\_\_\_

Fax #: \_\_\_\_\_ City: \_\_\_\_\_

Project #: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Project Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Project Location: \_\_\_\_\_ Fax #: \_\_\_\_\_

FOR LAB USE ONLY

LAB I.D.

Sample I.D.

H8106-11

Composite of  
Specs & Tunnels

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID :

ICE / COOL

OTHER :

DATE

TIME

10/20/03

TPH 8015M

Chlorides

BTEX

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Sampler Relinquished:

Date:

Time:

Received By:

Signature

Relinquished By:

Date:

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Received By:

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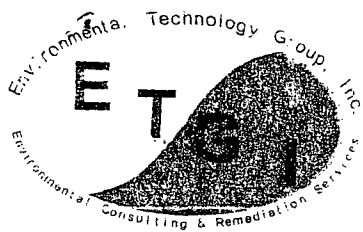
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Signature

Relinquished By:

Date:

Time:



# ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

## VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 103999

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 67401

FILL DATE: 10-20-03

EXP. DATE: 11/04

ACCURACY: 100ppm ± 2%

METER READING

ACCURACY: 100.8

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	T-5	T	5	215	36E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
10' North		10' South	
Sample 1	3.4	Sample 1	0.0
Sample 2	0.0	Sample 2	0.0
Sample 3	0.0	Sample 3	0.0
Sample 4	0.0	Sample 4	0.0
Sample 5	0.0	Sample 5	0.0
10' East		15' West	
Sample 1	0.0	Sample 1	0.0
Sample 2	0.0	Sample 2	36.7
Sample 3	7.9	Sample 3	186
Sample 4	0.0	Sample 4	1.9
Sample 5	0.0	Sample 5	.1

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

Gary Stark

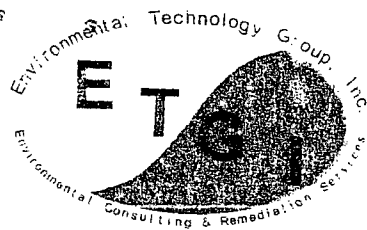
Signature

Field Tech

Title

10-20-03

Date



# ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

## VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 103999

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 67401

FILL DATE: \_\_\_\_\_

EXP. DATE: 11/04

ACCURACY: 100ppm ± 2%

METER READING

ACCURACY: 100.8

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	T-5	T	S	015	36E

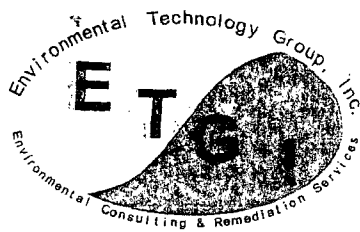
SAMPLE	PID RESULT	SAMPLE	PID RESULT
Bottom 12		Bottom 13	
Sample 1	56.7	Sample 6	45.9
Sample 2	41.5	Sample 8	53.4
Sample 3	1296		
Sample 4	3.2		
Sample 5	1	Bottom 14	
		Sample 7	3.5

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

[Signature]  
Signature

Field Tech  
Title

10.00.03  
Date



# ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

## VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 103999

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 67401

FILL DATE: 10-14-03

EXP. DATE: 11/04

ACCURACY: 100ppm  $\pm$  2%

METER READING

ACCURACY: 100.4

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	T5	T	5	T215	R36E

*Vertical 10' north 1' at center*

SAMPLE	PID RESULT	SAMPLE	PID RESULT
12'	459		
13'	435		
14'	90.0		

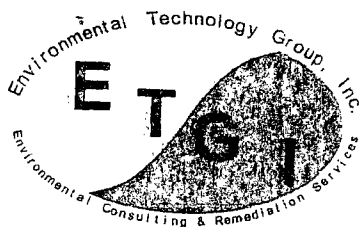
I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

*Gary Stark*  
Signature

*Field Test*  
Title

*10.14.03*  
Date

12-19-03  
Date



# ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

## VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 103999

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 62401

FILL DATE: 10-14-03

EXP. DATE: 11/04

ACCURACY: 100ppm  $\pm$  2%

METER READING

ACCURACY: 100.1

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
<u>E-05</u>	<u>T-5</u>	<u>7</u>	<u>5</u>	<u>T21S</u>	<u>R36E</u>

Located 14' South 10' from center

SAMPLE	PID RESULT	SAMPLE	PID RESULT
<u>12'</u>	<u>241</u>		
<u>13'</u>	<u>35.9</u>		
<u>14'</u>	<u>20.1</u>		

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

*Sam Hart*  
Signature

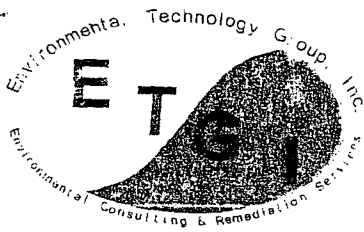
*Field Tech*  
Title

*10-14-03*  
Date

10-16-02  
Date



Date \_\_\_\_\_



# ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

## VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 103999

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 67401

FILL DATE: 10-17-03

EXP. DATE: 11/24

ACCURACY: 100ppm ± 2%

METER READING

ACCURACY: 100.8

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	T-5	T	5	21	36

### Composite sample 20x20x12

SAMPLE	PID RESULT	SAMPLE	PID RESULT
Bottom 12'	243		
4 WALL	22.4		
Remediated backfill	11.4		
N.W. LL 10'	2.4		
S.W. LL 10'	2.9		
W. WALL 10'	11.6		
S. W. LL 10'	12.5		

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

[Signature]  
Signature

Field Tech  
Title

10-17-03  
Date

10-12-03  
Date