

NM1 - 1

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**

2005 - 1996



**Whole Earth Environmental, Inc.**

2103 Arbor Cove  
Katy, Tx. 77494  
281.394.2050  
whearth@msn.com

2005 APR 14 AM 11 26

March 12, 2005

NMOCD  
1220 South Saint Francis Dr.  
Sante Fe, NM 87505

Attn: Wayne Price

Dear Wayne:

Attached, please find a copy of the lab results for Tipperary Corporation's Lane Salt Lake Remediation Project along with a copy of a photo showing the sampling location complete with reference landmarks. As you can see from the photo, we didn't go too far from the pit edge to sample.

Although the entire lake area still smells like a pair of old gym sox, there is apparently no BTEX in the water.

Warmest personal regards,

Mike Griffin  
President  
Whole Earth Environmental, Inc.

CC: Larry Sugano / Tipperary Corp.  
Paul Sheeley / NMOCD Hobbs



PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
 PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 WHOLE EARTH ENVIRONMENTAL  
 ATTN: M. GRIFFIN  
 2103 ARBOR COVE  
 KATY, TX 77494  
 FAX TO: (281) 394-2051

Receiving Date: 04/04/05  
 Reporting Date: 04/08/05  
 Project Number: NOT GIVEN  
 Project Name: TIPPERARY LSL  
 Project Location: TATUM, NM

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

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		04/05/05	04/05/05	04/05/05	04/05/05
H9677-1	LSL	<0.002	<0.002	<0.002	<0.006
Quality Control		0.106	0.097	0.102	0.318
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	97.2	102	106.0
Relative Percent Difference		6.0	2.8	2.1	5.5

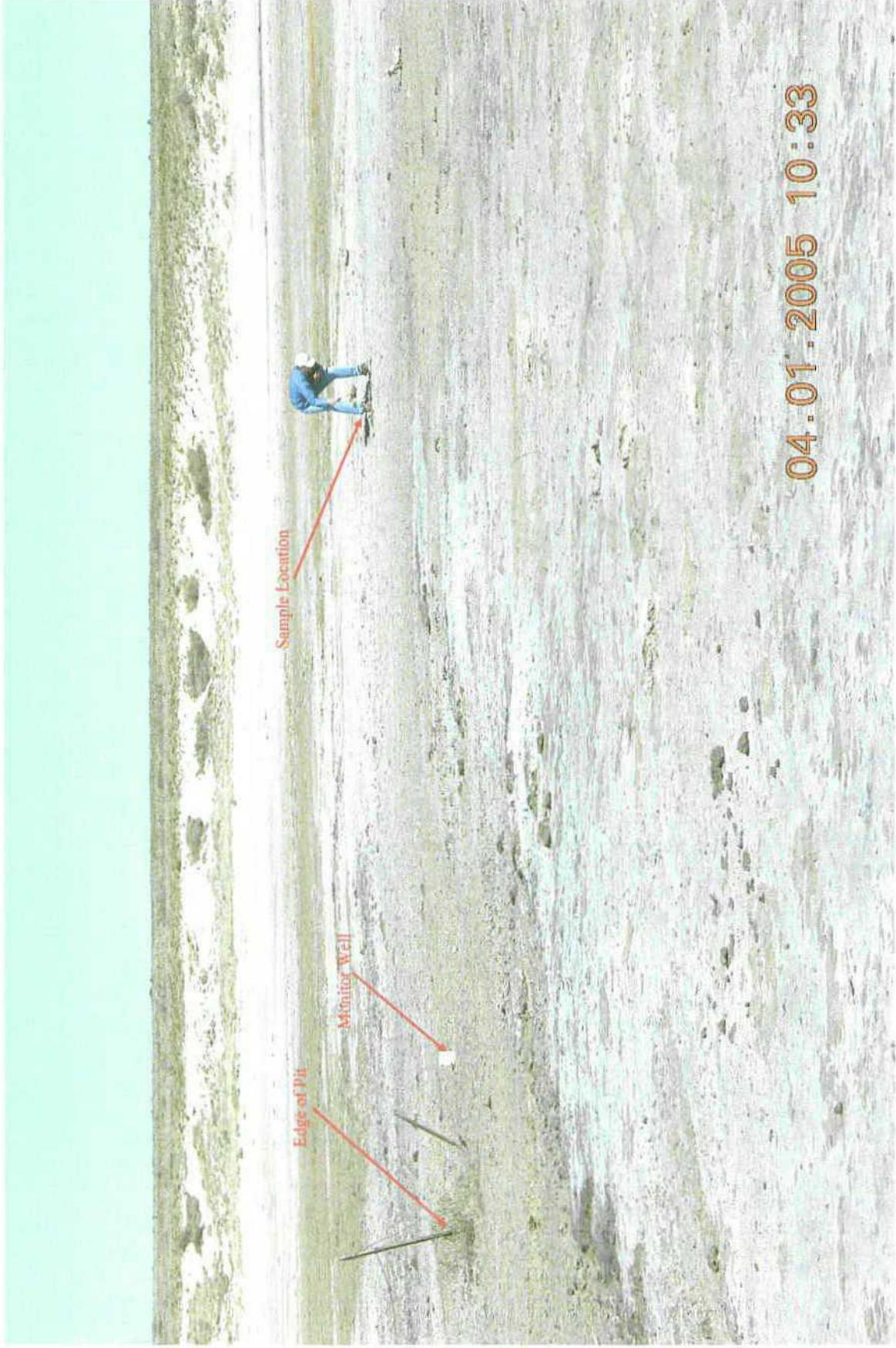
METHOD: EPA SW-846 8260

*Benjamin A. Coker*  
 Chemist

4/12/05  
 Date

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Sample Location

Edge of Pl

Monitor Well

04.01.2005 10:33

## Price, Wayne

**From:** Mike Griffin [whearth@msn.com]  
**Sent:** Wednesday, February 16, 2005 9:46 AM  
**To:** Price, Wayne  
**Subject:** Re: Request for Closure Lane Salt Lake OCD Case # NM 1001 ORDER R-3238

Good morning, Wayne:

I did a "pre-sample" of the playa last week in a couple of spots & found benzene in the soil at .022 & .046 ppm. Couldn't really get a reliable water sample. As you may recall, up to six brine disposal facilities operated on the fringe of Lane Salt Lake. These facilities were never closed in accordance with OCD rules and resultantly, Tipperary was the only operator that followed OCD Guidelines.

There is a layer of black iron oxide like material found within the entire playa (I must have walked a couple of miles through that goop to check all of the edges) at a depth of about 1' below ground surface. It gives off a hydrocarbon sheen everywhere I sampled.

The playa area of the lake was not previously sampled in any Tipperary related activities - only the water within the three individual monitor well sites. With the high chloride concentrations within the playa, we're not getting a lot of microbial degradation of the hydrocarbons and it's doubtful that we ever will. I've included a photo of one of the samples sent to the lab There are acres of the stuff ranging from a few inches to about one foot thick throughout the playa.

Tipperary is naturally reluctant to take on responsibility for the remediation of the entire playa - partially because they were the only operator to clean up their own facility in accordance with the rules and secondarily because it was never a part of the original closure. The lab analysis does the OCD guidelines for soil; they do not now (and will not for many decades to come) meet Safe Drinking Water Act standards.

Do you have any suggestions?

Mike Griffin

----- Original Message -----

**From:** Price, Wayne  
**Sent:** Wednesday, January 26, 2005 12:54 PM  
**To:** 'Isugano@tipperarycorp.com'  
**Cc:** Mike Griffin (E-mail); Sheeley, Paul; Johnson, Larry  
**Subject:** Request for Closure Lane Salt Lake OCD Case # NM 1001 ORDER R-3238

Dear Mr. Sugano:

OCD is in receipt of the request for closure dated November 02, 2004. OCD hereby approves of the request with the following conditions:

1. Please collect a final sample between where the last overflow pit was installed and in the natural drainage path going to the lake. The sample site shall be no more than 100 yards from the last pit. Please dig down approximately two feet in this area and collect a soil sample and water sample (if water is present) and analyze for BTEX EPA method 8021.
2. This sample collection must be witnessed by OCD and performed pursuant to EPA methods. Please make arrangements with the Hobbs District office.
3. Please provide photos documentation of the area.

4/14/2005

4. If the samples collected are negative or below WQCC groundwater standards then Tipperary may close the monitor wells.

Please provide to this office a final report by March 15, 2005.

Sincerely:

Wayne Price  
New Mexico Oil Conservation Division  
1220 S. Saint Francis Drive  
Santa Fe, NM 87505  
505-476-3487  
fax: 505-476-3462  
E-mail: WPRICE@state.nm.us

cc: Mr. Carl Lane Johnson-Landowner

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## Price, Wayne

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**From:** Price, Wayne  
**Sent:** Wednesday, January 26, 2005 11:53 AM  
**To:** 'Isugano@tipperarycorp.com'  
**Cc:** Mike Griffin (E-mail); Sheeley, Paul; Johnson, Larry  
**Subject:** Request for Closure Lane Salt Lake OCD Case # NM 1001 ORDER R-3238

Dear Mr. Sugano:

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3. Please provide photos documentation of the area.
4. If the samples collected are negative or below WQCC groundwater standards then Tipperary may close the monitor wells.

Please provide to this office a final report by March 15, 2005.

Sincerely:

Wayne Price  
New Mexico Oil Conservation Division  
1220 S. Saint Francis Drive  
Santa Fe, NM 87505  
505-476-3487  
fax: 505-476-3462  
E-mail: WPRICE@state.nm.us

cc: Mr. Carl Lane Johnson-Landowner



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202-3622

November 2, 2004

Mr. Wayne Price  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

**RE: Progress Report and Request for Final Closure  
Lane Salt Lake Project  
SE Section 12 and NE Section 13-T10S-R32E  
Lea County, NM**

Dear Mr. Price:

Please find enclosed the 2004 results from our three monitor wells in the subject project area. We have also enclosed the 2002 and 2003 monitoring results again for your information. All of the enclosed results are negative.

The pit remediation and closure began in October 1995. The three monitor wells were constructed in August 1998 and annual monitoring commenced. The sampling results over the last three years have all been negative.

We respectfully request final closure of this project and permission to remove the monitor wells. If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Tipperary Oil & Gas Corporation

Larry G. Sugano  
Vice President - Engineering

Enclosures

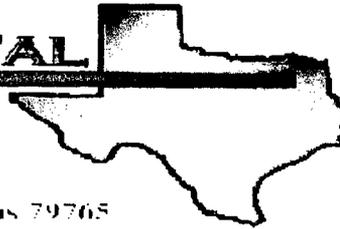
*LSUGANO@ TIPPERARY CORP.*

*COM*

cc: Mr. Paul Sheeley  
NMOCD Hobbs Office

Whole Earth Environmental

**E** NVIRONMENTAL  
LAB OF



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Lane Salt Lake

Project Number: None Given

Location: None Given

Lab Order Number: 4J04014

Report Date: 10/13/04

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Lane Salt Lake  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/13/04 17:05

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pit	4J04014-01	Water	10/02/04 00:00	10/03/04 13:00
Center	4J04014-02	Water	10/02/04 00:00	10/03/04 13:00
Lake	4J04014-03	Water	10/02/04 00:00	10/03/04 13:00

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Pit (4J04014-01) Water</b>									
Benzene	J [0.00569]	0.0100	mg/L	10	EJ41302	10/12/04	10/12/04	EPA 8021B	J
Toluene	J [0.00372]	0.0100	"	"	"	"	"	"	J
Ethylbenzene	J [0.00465]	0.0100	"	"	"	"	"	"	J
Xylene (p/m)	0.0109	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00437]	0.0100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		96.0 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		80-120	"	"	"	"	
<b>Center (4J04014-02) Water</b>									
Benzene	J [0.00418]	0.0100	mg/L	10	EJ41302	10/12/04	10/12/04	EPA 8021B	J
Toluene	J [0.00194]	0.0100	"	"	"	"	"	"	J
Ethylbenzene	J [0.00278]	0.0100	"	"	"	"	"	"	J
Xylene (p/m)	J [0.00639]	0.0100	"	"	"	"	"	"	J
Xylene (o)	J [0.00239]	0.0100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		106 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %		80-120	"	"	"	"	
<b>Lake (4J04014-03) Water</b>									
Benzene	ND	0.0100	mg/L	10	EJ41302	10/12/04	10/12/04	EPA 8021B	
Toluene	J [0.00274]	0.0100	"	"	"	"	"	"	J
Ethylbenzene	J [0.00348]	0.0100	"	"	"	"	"	"	J
Xylene (p/m)	0.0107	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00346]	0.0100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		117 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %		80-120	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Lane Salt Lake  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/13/04 17:05

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ41302 - EPA 5030C (GC)**

**Blank (EJ41302-BLK1)**

Prepared & Analyzed: 10/12/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.8		ug/l	20.0		119	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			

**LCS (EJ41302-BS1)**

Prepared & Analyzed: 10/12/04

Benzene	111		ug/l	100		111	80-120			
Toluene	111		"	100		111	80-120			
Ethylbenzene	112		"	100		112	80-120			
Xylene (p/m)	225		"	200		112	80-120			
Xylene (o)	115		"	100		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.8		"	20.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.9		"	20.0		104	80-120			

**LCS Dup (EJ41302-BSD1)**

Prepared & Analyzed: 10/12/04

Benzene	109		ug/l	100		109	80-120	1.82	20	
Toluene	113		"	100		113	80-120	1.79	20	
Ethylbenzene	107		"	100		107	80-120	4.57	20	
Xylene (p/m)	226		"	200		113	80-120	0.889	20	
Xylene (o)	106		"	100		106	80-120	8.14	20	
Surrogate: a,a,a-Trifluorotoluene	20.4		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	18.3		"	20.0		91.5	80-120			

**Calibration Check (EJ41302-CCV1)**

Prepared & Analyzed: 10/12/04

Benzene	105		ug/l	100		105	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	206		"	200		103	80-120			
Xylene (o)	100		"	100		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.1		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 5

WHOLE EARTH ENVIRONMENTAL  
 2103 Arbor Cove  
 Katy TX, 77494

Project: Lane Salt Lake  
 Project Number: None Given  
 Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
 10/13/04 17:05

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ41302 - EPA 5030C (GC)**

Matrix Spike (EJ41302-MS1)	Source: 4J07008-02	Prepared & Analyzed: 10/12/04
Benzene	109	ug/l 100 ND 109 80-120
Toluene	108	" 100 ND 108 80-120
Ethylbenzene	110	" 100 0.335 110 80-120
Xylene (p/m)	215	" 200 0.810 107 80-120
Xylene (o)	111	" 100 0.336 111 80-120
Surrogate: a,a,a-Trifluorotoluene	20.7	" 20.0 104 80-120
Surrogate: 4-Bromofluorobenzene	22.2	" 20.0 111 80-120

Matrix Spike Dup (EJ41302-MSD1)	Source: 4J07008-02	Prepared & Analyzed: 10/12/04
Benzene	109	ug/l 100 ND 109 80-120 0.00 20
Toluene	112	" 100 ND 112 80-120 3.64 20
Ethylbenzene	108	" 100 0.335 108 80-120 1.83 20
Xylene (p/m)	217	" 200 0.810 108 80-120 0.930 20
Xylene (o)	104	" 100 0.336 104 80-120 6.51 20
Surrogate: a,a,a-Trifluorotoluene	22.1	" 20.0 110 80-120
Surrogate: 4-Bromofluorobenzene	21.2	" 20.0 106 80-120

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove  
Katy TX, 77494

Project: Lane Salt Lake

Project Number: None Given

Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:

10/13/04 17:05

### Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K Tuttle*

Date:

10/13/04

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
James L. Hawkins, Chemist/Geologist  
Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas

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Page 5 of 5

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713



# ANALYTICAL REPORT

## Prepared for:

MIKE GRIFFIN  
WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084

**Project:** Tipperary LSL

**PO#:**

**Order#:** G0307934

**Report Date:** 11/18/2003

## Certificates

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084  
281-646-8996

Order#: G0307934  
Project:  
Project Name: Tipperary LSL  
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0307934-01	North	WATER	11/10/03 10:00	11/12/03 9:30	40 ml glass	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 17 C		
	8021B/5030 BTEX					
0307934-02	Central	WATER	11/10/03 10:30	11/12/03 9:30	40 ml glass	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 17 C		
	8021B/5030 BTEX					
0307934-03	South	WATER	11/10/03 11:15	11/12/03 9:30	40 ml glass	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 17 C		
	8021B/5030 BTEX					

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

MIKE GRIFFIN  
 WHOLE EARTH  
 19606 SAN GABRIEL  
 HOUSTON, TX 77084

Order#: G0307934  
 Project:  
 Project Name: Tipperary LSL  
 Location: None Given

Lab ID: 0307934-01  
 Sample ID: North

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0007453-02		11/17/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	107%	80	120
Bromofluorobenzene	113%	80	120

Lab ID: 0307934-02  
 Sample ID: Central

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0007453-02		11/17/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	85%	80	120
Bromofluorobenzene	93%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

MIKE GRIFFIN  
 WHOLE EARTH  
 19606 SAN GABRIEL  
 HOUSTON, TX 77084

Order#: G0307934  
 Project:  
 Project Name: Tipperary LSL  
 Location: None Given

Lab ID: 0307934-03  
 Sample ID: South

### 8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0007453-02		11/17/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	89%	80	120
Bromofluorobenzene	100%	80	120

Approval: *Raland K Tuttle* 11-19-03  
 Raland K. Tuttle, Lab Director, QA Officer      Date  
 Celey D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biezugbe, Lab Tech.  
 Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

**8021B/5030 BTEX**

Order#: G0307934

<b>BLANK</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0007453-02			<0.001		
Toluene-mg/L		0007453-02			<0.001		
Ethylbenzene-mg/L		0007453-02			<0.001		
p/m-Xylene-mg/L		0007453-02			<0.001		
o-Xylene-mg/L		0007453-02			<0.001		
<b>MS</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0307956-01	0	0.1	0.105	105.%	
Toluene-mg/L		0307956-01	0	0.1	0.100	100.%	
Ethylbenzene-mg/L		0307956-01	0	0.1	0.095	95.%	
p/m-Xylene-mg/L		0307956-01	0	0.2	0.190	95.%	
o-Xylene-mg/L		0307956-01	0	0.1	0.091	91.%	
<b>MSD</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0307956-01	0	0.1	0.108	108.%	2.8%
Toluene-mg/L		0307956-01	0	0.1	0.104	104.%	3.9%
Ethylbenzene-mg/L		0307956-01	0	0.1	0.099	99.%	4.1%
p/m-Xylene-mg/L		0307956-01	0	0.2	0.199	99.5%	4.6%
o-Xylene-mg/L		0307956-01	0	0.1	0.094	94.%	3.2%
<b>SRM</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0007453-05		0.1	0.104	104.%	
Toluene-mg/L		0007453-05		0.1	0.098	98.%	
Ethylbenzene-mg/L		0007453-05		0.1	0.094	94.%	
p/m-Xylene-mg/L		0007453-05		0.2	0.189	94.5%	
o-Xylene-mg/L		0007453-05		0.1	0.093	93.%	



# ANALYTICAL REPORT

## Prepared for:

MIKE GRIFFIN  
WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084

Project: Tipperary

PO#:

Order#: G0204813

Report Date: 10/29/2002

### Certificates

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084  
281-646-8996

Order#: G0204813  
Project: None Given  
Project Name: Tipperary  
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0204813-01	Lane Salt Lake #1	WATER	10/20/02 14:00	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u> 8021B/5030 BTEX	Rejected: No		Temp: 3 C		
0204813-02	Lane Salt Lake #2	WATER	10/20/02 14:15	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u> 8021B/5030 BTEX	Rejected: No		Temp: 3 C		
0204813-03	Lane Salt Lake #3	WATER	10/20/02 14:30	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u> 8021B/5030 BTEX	Rejected: No		Temp: 3 C		

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

MIKE GRIFFIN  
 WHOLE EARTH  
 19606 SAN GABRIEL  
 HOUSTON, TX 77084

Order#: G0204813  
 Project: None Given  
 Project Name: Tipperary  
 Location: None Given

Lab ID: 0204813-01  
 Sample ID: Lane Salt Lake #1

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0003551-02		10/25/02 11:50	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	104%	80	120

Lab ID: 0204813-02  
 Sample ID: Lane Salt Lake #2

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0003551-02		10/25/02 12:12	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	100%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

MIKE GRIFFIN  
 WHOLE EARTH  
 19606 SAN GABRIEL  
 HOUSTON, TX 77084

Order#: G0204813  
 Project: None Given  
 Project Name: Tipperary  
 Location: None Given

Lab ID: 0204813-03  
 Sample ID: Lane Salt Lake #3

### 8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0003551-02		10/25/02 12:34	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	93%	80	120

Approval: Jeanne McMurrey 10-29-02  
 Raland K. Tuttle, Lab Director, QA Officer      Date  
 Celey D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biezugbe, Lab Tech.  
 Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

**8021B/5030 BTEX**

Order#: G0204813

<b>BLANK</b>		<b>LAB-ID #</b>	<b>Sample Concentr.</b>	<b>Spike Concentr.</b>	<b>QC Test Result</b>	<b>Pct (%) Recovery</b>	<b>RPD</b>
WATER							
Benzene-mg/L		0003551-02			<0.001		
Ethylbenzene-mg/L		0003551-02			<0.001		
Toluene-mg/L		0003551-02			<0.001		
p/m-Xylene-mg/L		0003551-02			<0.001		
o-Xylene-mg/L		0003551-02			<0.001		
<b>MS</b>		<b>LAB-ID #</b>	<b>Sample Concentr.</b>	<b>Spike Concentr.</b>	<b>QC Test Result</b>	<b>Pct (%) Recovery</b>	<b>RPD</b>
WATER							
Benzene-mg/L		0204813-01	0	0.1	0.097	97.%	
Ethylbenzene-mg/L		0204813-01	0	0.1	0.102	102.%	
Toluene-mg/L		0204813-01	0	0.1	0.097	97.%	
p/m-Xylene-mg/L		0204813-01	0	0.2	0.216	108.%	
o-Xylene-mg/L		0204813-01	0	0.1	0.104	104.%	
<b>MSD</b>		<b>LAB-ID #</b>	<b>Sample Concentr.</b>	<b>Spike Concentr.</b>	<b>QC Test Result</b>	<b>Pct (%) Recovery</b>	<b>RPD</b>
WATER							
Benzene-mg/L		0204813-01	0	0.1	0.091	91.%	6.4%
Ethylbenzene-mg/L		0204813-01	0	0.1	0.094	94.%	8.2%
Toluene-mg/L		0204813-01	0	0.1	0.092	92.%	5.3%
p/m-Xylene-mg/L		0204813-01	0	0.2	0.202	101.%	6.7%
o-Xylene-mg/L		0204813-01	0	0.1	0.098	98.%	5.9%
<b>SRM</b>		<b>LAB-ID #</b>	<b>Sample Concentr.</b>	<b>Spike Concentr.</b>	<b>QC Test Result</b>	<b>Pct (%) Recovery</b>	<b>RPD</b>
WATER							
Benzene-mg/L		0003551-05		0.1	0.098	98.%	
Ethylbenzene-mg/L		0003551-05		0.1	0.102	102.%	
Toluene-mg/L		0003551-05		0.1	0.100	100.%	
p/m-Xylene-mg/L		0003551-05		0.2	0.216	108.%	
o-Xylene-mg/L		0003551-05		0.1	0.105	105.%	



**Whole Earth Environmental, Inc.**

19606 San Gabriel Houston, Tx. 77084  
Tel: 281.492.7077 Fax: 281.646.8996  
whearth@msn.net

**RECEIVED**

JAN 23 2004

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Sante Fe, NM 87505

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

January 19, 2004

Attn: Bill Olson

Dear Bill:

Enclosed, please find copies of the 2003 Lane Salt Lake sampling event. You will note that all samples came back at non-detection levels. I reviewed the records for previous events and found that the 2001 sampling event results had a .052 benzene concentration (well above the .010 standard) so we're not quite ready to call it closed. The pit area continues to re-vegetate and will be indistinguishable from the background within a couple of years.

If you've any questions or comments, please do not hesitate to call.

Warmest personal regards,



Mike Griffin

**ENVIRONMENTAL LAB OF TEXAS**  
**SAMPLE WORK LIST**

WHOLE EARTH  
 19606 SAN GABRIEL  
 HOUSTON, TX 77084  
 281-646-8996

Order#: G0204813  
 Project: None Given  
 Project Name: Tipperary  
 Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204813-01	Lane Salt Lake #1	WATER	10/20/02 14:00	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 3 C		
	8021B/5030 BTEX					
0204813-02	Lane Salt Lake #2	WATER	10/20/02 14:15	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 3 C		
	8021B/5030 BTEX					
0204813-03	Lane Salt Lake #3	WATER	10/20/02 14:30	10/21/02 12:50	40 mL VOA	Ice, HCl
	<u>Lab Testing:</u>	Rejected: No		Temp: 3 C		
	8021B/5030 BTEX					

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

MIKE GRIFFIN  
WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084

Order#: G0204813  
Project: None Given  
Project Name: Tippecary  
Location: None Given

Lab ID: 0204813-01  
Sample ID: Lane Salt Lake #1

### 8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003551-02		10/25/02	1	1	CK	8021B
		11:50				

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	104%	80	120

Lab ID: 0204813-02  
Sample ID: Lane Salt Lake #2

### 8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003551-02		10/25/02	1	1	CK	8021B
		12:12				

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	100%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

MIKE GRIFFIN  
WHOLE EARTH  
19606 SAN GABRIEL  
HOUSTON, TX 77084

Order#: C0204813  
Project: None Given  
Project Name: Tipperary  
Location: None Given

Lab ID: 0204813-03  
Sample ID: Lane Salt Lake #3

### 8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003551-02		10/25/02 12:34	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)
aaa-Toluene	92%	80 120
Bromofluorobenzene	93%	80 120

Approval: *Jeanne McMurray* 10-29-02  
 Roland K. Tulde, Lab Director, QA Officer      Date  
 Celcy D. Koene, Org. Tech. Director  
 Jeanne McMurray, Inorg. Tech. Director  
 Sandra Biczugbe, Lab Tech.  
 Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

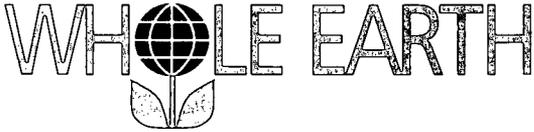
## QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204813

<b>BLANK</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER		0003551-02			<0.001		
Benzene-mg/L		0003551-02			<0.001		
Ethylbenzene-mg/L		0003551-02			<0.001		
Toluene-mg/L		0003551-02			<0.001		
p/m-Xylene-mg/L		0003551-02			<0.001		
o-Xylene-mg/L		0003551-02			<0.001		
<b>MS</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER		0204813-01	0	0.1	0.097	97.%	
Benzene-mg/L		0204813-01	0	0.1	0.102	102.%	
Ethylbenzene-mg/L		0204813-01	0	0.1	0.097	97.%	
Toluene-mg/L		0204813-01	0	0.2	0.216	108.%	
p/m-Xylene-mg/L		0204813-01	0	0.1	0.104	104.%	
o-Xylene-mg/L		0204813-01	0	0.1	0.091	91.%	6.4%
<b>MSD</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER		0204813-01	0	0.1	0.094	94.%	8.2%
Benzene-mg/L		0204813-01	0	0.1	0.092	92.%	5.3%
Ethylbenzene-mg/L		0204813-01	0	0.2	0.202	101.%	6.7%
Toluene-mg/L		0204813-01	0	0.1	0.098	98.%	5.9%
p/m-Xylene-mg/L		0204813-01	0	0.1	0.098	98.%	5.9%
o-Xylene-mg/L		0204813-01	0	0.1	0.098	98.%	5.9%
<b>SRM</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER		0003551-05		0.1	0.098	98.%	
Benzene-mg/L		0003551-05		0.1	0.102	102.%	
Ethylbenzene-mg/L		0003551-05		0.1	0.100	100.%	
Toluene-mg/L		0003551-05		0.2	0.216	108.%	
p/m-Xylene-mg/L		0003551-05		0.1	0.105	105.%	
o-Xylene-mg/L		0003551-05		0.1	0.105	105.%	





Whole Earth Environmental, Inc.

19606 San Gabriel, Houston, Texas 77084  
281/492-7077 • Fax: 281/646-8996

RECEIVED

OCT 12 2001

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

October 8, 2001

NMOCD  
1220 South St. Francis Dr.  
Sante Fe, NM 87505

Attn: Bill Olson

Dear Bill:

Enclosed, please find a copy of the laboratory analytical results for the Lane Salt Lake playa. Monitor Well # 1 is immediately adjacent to the pit site, Well # 2 is located mid-playa and well # 3 is at what was once the lake edge. Since all salt water discharges have been discontinued the lake level has dropped rather dramatically. The new shoreline is about one hundred yards from where it was at the time of the Burro closure.

As you will note, we've still a bit of benzene seeping into the first well but the concentrations are ever diminishing.

Warmest personal regards,

A handwritten signature in black ink that reads "Mike Griffin".

Mike Griffin  
President  
Whole Earth Environmental, Inc.

Cc: Larry Sugano / Tipperary Corporation

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

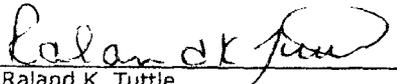
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ 0.0 deg C  
Project #: None Given  
Project Name: Lane Salt Lake  
Project Location: Tatum, NM

Sampling Date: 09/22/01  
Receiving Date: 09/26/01  
Analysis Date: 09/26/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101637-01	1	0.131	<0.001	<0.001	<0.001	<0.001
0101637-02	2	<0.001	<0.001	<0.001	<0.001	<0.001
0101637-03	3	<0.001	<0.001	<0.001	<0.001	<0.001

QUALITY CONTROL	0.097	0.095	0.092	0.186	0.089
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	97	95	92	93	89
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.099	0.098	0.094	0.189	0.090
SPIKE DUP	0.099	0.098	0.095	0.191	0.090
%EA	99	98	94	94	90
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	0.00	0.00	1.06	2.10	0.00

METHODS: EPA SW 846-8021B ,5030

  
Raland K. Tuttle

9-27-01  
Date





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

October 30, 2001

**Lori Wrotenbery**  
Director  
Oil Conservation Division

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 7099-3220-0000-5051-2474**

Mr. David L. Bradshaw  
Burro Pipeline, Corporation  
633 17<sup>th</sup> Street, Suite 1550  
Denver, CO 80202

**RE: \$25,000 Bond for Centralized Surface Waste Management Facility  
Burro Pipeline, Corporation, Principal  
Fidelity and Deposit Company of Maryland, Surety  
Sections 12 and 13, Township 10 South, Range 32 East, and  
Sections 6 and 7, Township 10 South, Range 33 East, NMPM, Lea Co. NM  
Bond No. 04128218**

Dear Mr. Bradshaw:

The New Mexico Oil Conservation Division hereby approves the above-referenced bond for the Burro Pipeline, Corporation.

Sincerely,

David K. Brooks,  
Assistant General Counsel

DKB: mjk

Enclosures: Copy of Bond No. 04128218

xc with attachment:

Hobbs OCD Office  
Sandra J. Shryack, IMA, Inc., P.O. Box 2992, Wichita, KS 67201-2992



600 IMA Plaza, 250 North Water  
P.O. Box 2992, Wichita, KS 67201-2992  
[316] 267-9221, FAX [316] 266-6254  
AFFILIATIONS: Assurex, Intersure

MAY 11, 2001

ATTENTION OBLIGEE: NEW MEXICO OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NM 87505

PRINCIPAL: BURRO PIPELINE CORPORATION

THIS BOND # 04128218 WRITTEN THROUGH FIDELITY AND  
DEPOSIT COMPANY OF MARYLAND IS BEING FILED TO REPLACE THE CURRENT  
BOND YOU HAVE ON FILE, BOND # 123972081 WRITTEN THROUGH  
CONTINENTAL CASUALTY COMPANY.

UPON RECEIPT OF THIS REPLACEMENT BOND, PLEASE SEND WRITTEN NOTICE  
OF RELEASE ON BOND # 123972081 DIRECTLY TO CNA'S ADDRESS:  
SUSIE GILLAM, CNA COMPANY, LIGHTON PLAZA, 7400 COLLEGE BLVD.,  
SUITE 225, OVERLAND PARK, KS 66210.

AS BOND BROKER, I WOULD APPRECIATE RECEIVING A COPY OF THE  
RELEASE LETTER AND ACCEPTANCE OF THE REPLACEMENT BOND. IF YOU  
FIND A PROBLEM WITH THIS REPLACEMENT BOND CONTACT ME DIRECT AT  
316-266-6310. THANK YOU FOR YOUR PROMPT ATTENTION TO THIS  
MATTER.

  
\_\_\_\_\_  
SANDRA J. SHRYACK  
SR. BOND UNDERWRITER  
IMA, INC.  
P.O. BOX 2992  
WICHITA, KS 67201-2992

**Energy, Minerals and Natural Resources Department**  
**Oil Conservation Division**  
**Surety Bond For Waste Management Facilities**  
(File with Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505)

BOND NO. 04128218  
(For Surety Company Use)

KNOW ALL MEN BY THESE PRESENTS:

That Burro Pipeline Corporation  
(an individual, partnership, or a corporation organized in the State of Colorado, with its principal office in the City of Denver, State of Colorado, and authorized to do business in the State of New Mexico), as PRINCIPAL, and Fidelity and Deposit Company of Maryland, a corporation organized and existing under the laws of the State of Maryland, and authorized to do business in the State of New Mexico with duly appointed resident agent in the State of New Mexico to execute this bond on behalf of the surety company, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (the "Division") pursuant to Section 70-2-12 NMSA, 1978, (1995 Relp.) as amended in the sum of Twenty-Five Thousand and No/100-- (\$25,000.00--) Dollars for the payment of which PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally.

The conditions of this obligation are such that:

WHEREAS, the above principal has heretofore or may hereafter enter into the collection, disposal, evaporation, remediation, reclamation, treatment or storage of produced water, drilling fluids, drill cuttings, completion fluids, contaminated soils, BS&W, tank bottoms, waste oil and/or other oil field related waste in Section \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_, NMPM, \_\_\_\_\_ County, New Mexico.

NOW, THEREFORE, this \$ 25,000.00-- performance bond is conditioned upon substantial compliance with all applicable statutes of the State of New Mexico and all rules and orders of the Oil Conservation Commission, the Division, and upon clean-up of the facility site to standards of the Division; otherwise the principal amount of the bond to be forfeited to the State of New Mexico.

Signed and sealed this 11th day of May, 2001

Principal Burro Pipeline Corporation

Surety Fidelity and Deposit Company of Maryland

633 17th Street, Suite 1550

P.O. Box 1227

Mailing Address Denver, CO 80202

Mailing Address Baltimore, MD 21203

By David L. Bradshaw  
By DAVID L. BRADSHAW PRESIDENT  
Signature Title

Sandra J. Shryack  
Attorney-in-Fact  
Sandra J. Shryack

Note: If Principal is a corporation, affix corporate seal here.

Note: If corporate surety, affix corporate seal here.

Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.

Countersigned by: N/A No Longer Required

New Mexico Resident Agent

Address



ACKNOWLEDGEMENT OF SURETY

STATE OF Kansas

COUNTY OF Sedgwick

On this 11th day of May, 2001, before me personally appeared

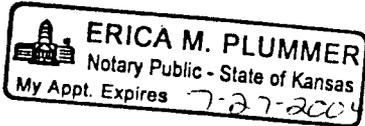
Sandra J. Shryack, to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

(Seal)

Erica M Plummer

Notary Public

My Commission expires 7-27-2004



RIDER

Surety Bond No. 04128218

It is hereby agreed by and between the undersigned principal(s) and surety, in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the State of New Mexico, to terminate the period of liability on Bond No(s). 123972081

Continental Casualty Company carrying the same principal(s) and as surety, the undersigned principal(s) and surety hereby assume any and all liabilities that may be outstanding on Bond No(s). 123972081 including, but not limited to, the obligation properly to plug and abandon all wells existing on leases to which Bond No(s). 123972081 applies provided, however that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.

Effective the 11<sup>th</sup> day of May, 20 01.

Executed this 11<sup>th</sup> day of May, 20 01.

Witnesses:

Claine R. Hoese  
633 17<sup>th</sup> Street, Denver, CO 80202

Burro Pipeline Corporation

By David L. Bradshaw  
DAVID L BRADSHAW Principal  
633 17<sup>th</sup> Street, Denver, CO 80202 Address  
PRESIDENT Title

Janis K. Peter  
P.O. Box 2992, Wichita, KS 67201-2992

Fidelity and Deposit Company of Maryland Surety  
P.O. Box 1227, Baltimore, MD 21203 Address  
Sandra J. Shryack Attorney-in-fact

NOTE: A power of attorney document for the surety's representative must accompany this rider.

**Power of Attorney**  
**FIDELITY AND DEPOSIT COMPANY OF MARYLAND**  
**COLONIAL AMERICAN CASUALTY AND SURETY COMPANY**  
**HOME OFFICES: P.O. Box 1227, BALTIMORE, MD 21203-1227**

Know ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, corporations of the State of Maryland, by F. L. BORLEIS, Vice-President, and T. C. JOHNSON, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, does hereby nominate, constitute and appoint **W. C. Cohen, Jr., Joseph C. Lukens, II, Scott T. Post, Richard K. Stone, Bret S. Burton, Jana M. Forrest, Patricia Brogan, Sandra J. Shryack and Erica M. Plummer, all of Wichita, Kansas, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings EXCEPT** bonds on behalf of Independent Executors, Community Survivors and Community Guardians; and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Companies at their offices in Baltimore, Md. in their own proper persons. This power of attorney revokes that issued on behalf of W. C. Cohen, Jr., Joseph C. Lukens, II, Scott T. Post, Richard K. Stone, Bret S. Burton, Jana M. Forrest, Patricia Brogan, and Sandra J. Shryack, dated September 3, 1999.

The said Assistant Secretary does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article VI, Section 2, of the respective By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seals of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, this 14th day of July, A.D. 2000.

ATTEST: **FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



*T. C. Johnson*  
 T. C. Johnson Assistant Secretary

By: *F. L. Borleis*  
 F. L. Borleis Vice-President

**COLONIAL AMERICAN CASUALTY AND SURETY COMPANY**



*T. C. Johnson*  
 T. C. Johnson Assistant Secretary

By: *F. L. Borleis*  
 F. L. Borleis Vice-President

State of Maryland } ss:  
 County of Harford

On this 14th day of July, A.D. 2000, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, came F. L. Borleis, Vice-President and T. C. Johnson, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and saith, that they are the said officers of the Companies aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



*Patricia A. Trombetti*  
 Patricia A. Trombetti Notary Public  
 My Commission Expires: October 9, 2002



NEW MEXICO ENERGY, MINERALS and  
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON  
Governor  
Jennifer A. Salisbury  
Cabinet Secretary

October 30, 2001

Lori Wrotenbery  
Director  
Oil Conservation Division

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 7099-3220-0000-5051-2467**

Mr. David L. Bradshaw  
Burro Pipeline, Corporation  
633 17<sup>th</sup> Street, Suite 1550  
Denver, CO 80202

**RE: \$25,000 Bond for Centralized Surface Waste Management Facility  
Burro Pipeline, Corporation, Principal  
Continental Casualty Company, Surety  
Sections 12 and 13, Township 10 South, Range 32 East, and  
Sections 6 and 7, Township 10 South, Range 33 East, NMPM, Lea Co. NM  
Bond No. 123972081**

Dear Mr. Bradshaw:

The New Mexico Oil Conservation Division approves the cancellation of the above-referenced financial assurance and releases Continental Casualty Company of any liability.

Sincerely,

  
David K. Brooks,  
Assistant General Counsel

DKB:mjk

Enclosures: Copy of Bond No. 123972081

xc with attachment:

Hobbs OCD Office  
Susie Gillam, CNA Company, Lighton Plaza, 7400 College Blvd., Suite 225,  
Overland Park, KS 66210  
Sandra J. Shryack, IMA, Inc., P.O. BOX 2992, Wichita, KS 67201-2992

OIL CONSERVATION DIVISION

RECEIVED

BOND NO. 123972081

(For Use of Surety Company)

OIL CONSERVATION DIVISION RECEIVED

File with Oil Conservation Division, P.M. 8 52, 2088, Santa Fe, New Mexico 87504

'93 JUN 28 AM 10:02

KNOW ALL MEN BY THESE PRESENTS:

That BURRO PIPELINE CORPORATION, (a corporation organized in the State of Colorado) with its principal office in the City of Denver, State of Colorado, and authorized to do business in the State of New Mexico, as PRINCIPAL, and CONTINENTAL CASUALTY COMPANY, a corporation organized and existing under the laws of the State of Illinois, and authorized to do business in the State of New Mexico with duly appointed resident agent licensed in the State of New Mexico to execute this bond on behalf of the surety company, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department pursuant to Chapter 72, Laws of New Mexico, 1935, as amended, and to the State of New Mexico in the sum of Twenty Five Thousand (\$25,000.00) Dollars lawful money of the United States for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into the collection, disposal or storage of produced water and/or other oil field related waste in Section 6 & 7, Township 10 (North) (South), Range 33 (East) (West), N.M.P.M., Lea County, New Mexico.

NOW, THEREFORE, This \$25,000 performance bond is conditioned upon substantial compliance with all applicable statutes of the State of New Mexico and all rules, regulations, and orders of the Oil Conservation Division of the Energy and Minerals Department, and upon clean-up of the facility site to standards of the Oil Conservation Division; otherwise the principal amount of the bond to be forfeited to the State of New Mexico.

PROVIDED, HOWEVER, That sixty (60) days after receipt by the Oil Conservation Division of written notice of cancellation from the Surety, the obligation of the Surety shall terminate as to activities or operations conducted by PRINCIPAL after said sixty (60) day period but shall continue in effect, notwithstanding said notice, as to such activities or operations conducted or commenced before the expiration of the sixty day period.

Signed and sealed this 18th day of June, 19 93.

BURRO PIPELINE CORPORATION
PRINCIPAL
633 17th Street, Suite 1550
Denver, CO 80202
Mailing Address

CONTINENTAL CASUALTY COMPANY
SURETY
999 18th Street, Suite 2800
Denver, Colorado 80202
Mailing Address

By David L. Bradshaw Vice President
Signature Title
David L. Bradshaw, Vice President

By Douglas J. Rothey
Attorney-in-Fact
Douglas J. Rothey

(Note: Principal, if corporation
Affix corporate seal here.)

(Note: Corporate surety affix corporate
seal here.)

Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:

ACKNOWLEDGEMENT FORM FOR CORPORATION

STATE OF Colorado )  
COUNTY OF Denver ) ss.

On this 32<sup>nd</sup> day of June, 1993, before me personally appeared David R. Bradshaw, to me personally known who, being by me duly sworn, did say that he is Vice President of Bechtel Inc. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission Expires February 10, 1996  
633 17th Street, #1550  
Denver, Colorado 80202

Robert R. Hise  
Notary Public

My Commission Expires

ACKNOWLEDGEMENT FORM FOR CORPORATE SURETY

STATE OF Colorado )  
COUNTY OF Denver ) ss.

On this 18<sup>th</sup> day of June, 1993, before me appeared Douglas J. Roney, to me personally known, who, being by me duly sworn, did say that he is ATTY-IN-FACT of CONTINENTAL CASUALTY COMPANY and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Mary Catherine Abey  
Notary Public

9-13-95  
My Commission Expires

(Note: Corporate surety attach power of attorney.)

APPROVED BY:

OIL CONSERVATION DIVISION OF NEW MEXICO

By: [Signature]

Date: \_\_\_\_\_



For All the Commitments You Make

AN ILLINOIS CORPORATION

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men by these Presents, That CONTINENTAL CASUALTY COMPANY, a corporation duly organized and existing under the laws of the State of Illinois, and having its principal office in the City of Chicago, and State of Illinois, does hereby make, constitute and appoint Robert L. Cohen, Conrad W. Pobuda, Theresa M. Fadul, Gerald J. Hayes, Douglas J. Rothey, Individually

of Denver, Colorado

Its true and lawful Attorney-in-fact with full power and authority hereby conferred to sign, seal and execute in its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind CONTINENTAL CASUALTY COMPANY thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of CONTINENTAL CASUALTY COMPANY and all the acts of said Attorney, pursuant to the authority hereby given are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company.

Article IX—Execution of Documents

Section 3. Appointment of Attorney-in-fact. The President or a Vice President may, from time to time, appoint by writtencertificates attorneys-in-fact to act in behalf of the Company in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such attorneys-in-fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Company by their signature and execution of any such instruments and to attach the seal of the Company thereto. The President or any Vice President or the Board of Directors may at any time revoke all power and authority previously given to any attorney-in-fact."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 3rd day of April, 1957.

"Resolved, that the signature of the President or Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted pursuant to Section 3 of Article IX of the By-Laws, and the signature of the Secretary or an Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power, and any power or certificate bearing such facsimile signatures and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

In Witness Whereof, CONTINENTAL CASUALTY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 18th day of February, 1993.

CONTINENTAL CASUALTY COMPANY

State of Illinois )
County of Cook ( SS



J. E. Purtell

Vice President.

On this 18th day of February, 1993, before me personally came J. E. Purtell, to me known, who, being by me duly sworn, did depose and say: that he resides in the Village of Glenview, State of Illinois; that he is a Vice-President of CONTINENTAL CASUALTY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.



Linda C. Dempsey
Notary Public.

My Commission Expires October 19, 1994

CERTIFICATE

I, George R. Hobaugh, Assistant Secretary of CONTINENTAL CASUALTY COMPANY, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that Section 3 of Article IX of the By-Laws of the Company and the Resolution of the Board of Directors, set forth in said Power of Attorney are still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said Company this 18th day of June, 1993.



George R. Hobaugh
Assistant Secretary



# Tipperary

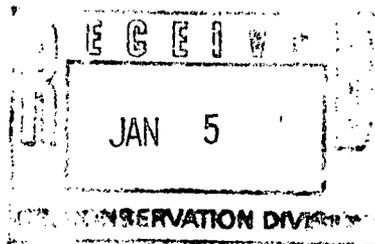
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

January 4, 2001

CERTIFIED MAIL

Mr. William C. Olson  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505



**RE: Annual Results for Year 2000  
Lane Salt Lake Pit Closure Project  
Lea County, NM**

Dear Mr. Olson:

Please find enclosed additional results from our monitor wells pertaining to the subject project. A map is enclosed to show the location of the monitor wells. These results are from water samples taken on September 26 and November 12, 2000. These results represent the second annual submittal of data from the monitor wells.

We will continue to sample the project on an annual basis. If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Larry G. Sugano  
Vice President - Engineering

cc: NMOCD Hobbs Office

Enclosures

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

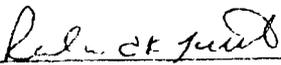
SampleType: Water  
Sample Condition: Intact/ Iced/ HCV 2 deg. C  
Project #: None Given  
Project Name: None Given  
Project Location: Lane Salt Lake

Sampling Date: 09/26/00  
Receiving Date: 09/28/00  
Analysis Date: 10/06/00

ELITE	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
31519	P	0.052	0.055	<0.001	<0.001	<0.001
31520	L	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	109	110	110	111	111
% EA	102	101	104	103	102
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030

  
Ralard K. Tuttle

10-12-00  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: M.R MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

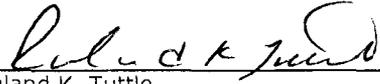
SampleType: Water  
Sample Condition: Intact/ Iced/ HCl/ 3.5 deg. C  
Project #: None Given  
Project Name: L.S.L.  
Project Location: Tatum, N.M.

Sampling Date: 11/12/00  
Receiving Date: 11/15/00  
Analysis Date: 11/28/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
33886	Lake Sample	<0.001	<0.001	<0.001	<0.001	<0.001

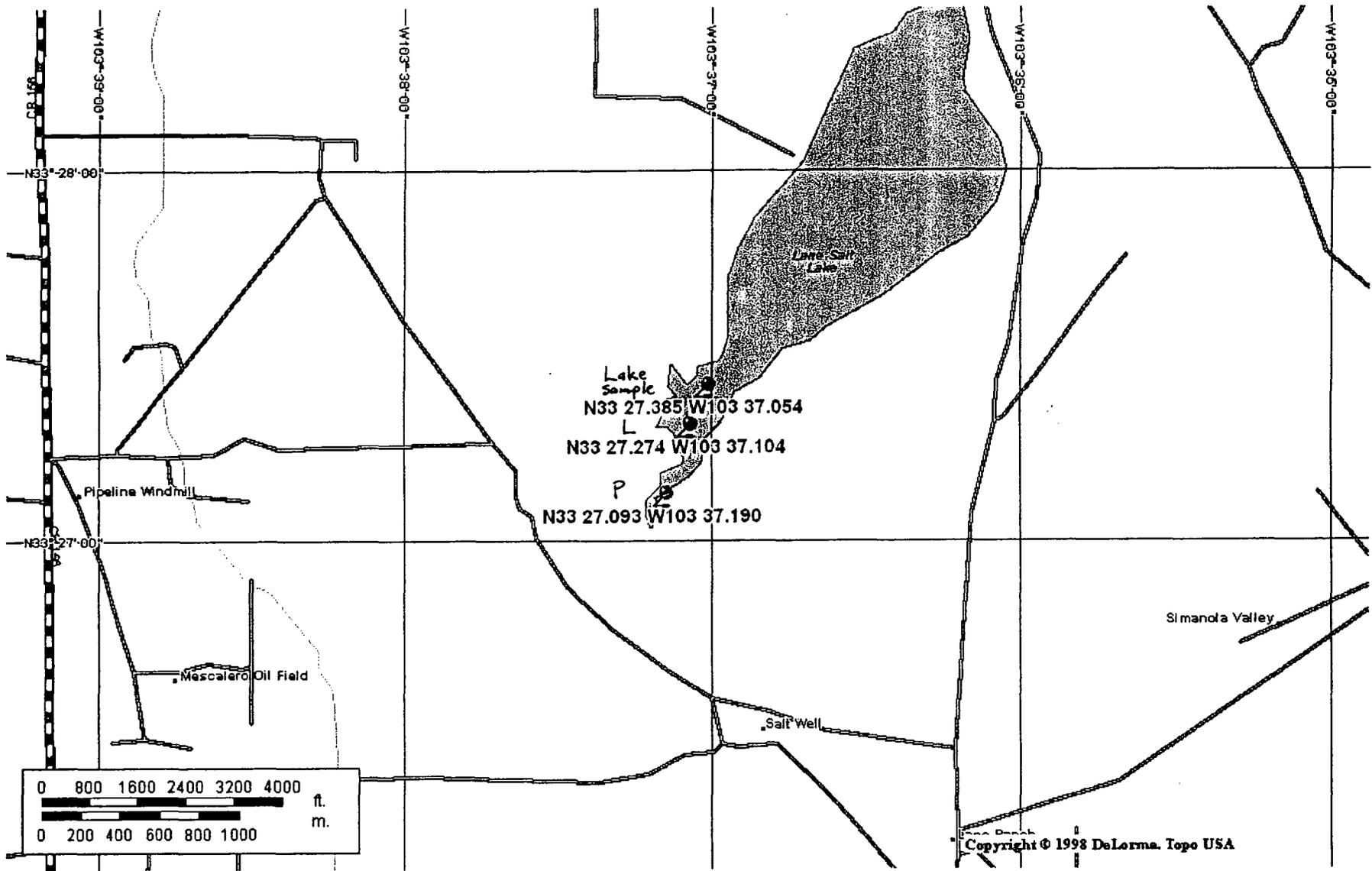
% IA	85	94	97	101	96
% EA	95	106	106	112	103
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030

  
\_\_\_\_\_  
Roland K. Tuttle

11-29-00  
Date





Lake Sample  
 N33 27.385 W103 37.054  
 L  
 N33 27.274 W103 37.104  
 P  
 N33 27.093 W103 37.190

**Public Regulation Commission**

3/6/2000

**BURRO PIPELINE CORPORATION****MAILING ADDRESS****633 17TH STREET STE 1550 DENVERFE COLORADO 80202**

---

**SCC Number: 0586487****Tax & Revenue Number: 01735301008****INCORPORATED ON JUNE 08, 1967, IN NEW MEXICO.****CORPORATION IS A DOMESTIC PROFIT****CORPORATION IS ACTIVE  
NOT IN GOOD STANDING****PURPOSE OF THE CORPORATION  
SALT WATER DISPOSAL****CORPORATION DATES****Taxable Year End Date: 09/30/99      Filing Date: //  
Corporate Existence Expiration Date:****SUPPLEMENTAL POST MARK DATES****Supplemental: 04/09/90      Name Change:      Purpose Change:****PRINCIPAL ADDRESS****P O BOX 857 TATUM NEW MEXICO 88267-0857****PRINCIPAL ADDRESS(Outside New Mexico)****633 17TH STREET STE 1550 DENVER COLORADO 80202**

---

**REGISTERED AGENT****C T CORPORATION SYSTEM****123 EAST MARCY SANTA FE NEW MEXICO 87501****Designation date: 11/11/98      Agent Post Mark Date:      Resignation date:****COOP LICENSE INFORMATION****Number:      Type:      Expiration Year:****BRADSHAW, DAVID L *President*****OBOURN, JEFF T. *Vice President***

**TREECE, ELAINE R. Secretary**  
**NONE LISTED Treasurer**

---

***DIRECTORS***

***Date Election of Directors: 01/26/99***

**ANCELL , KENNETH L**

633 17TH STREET STE 1550 DENVER , CO 80202

**BRADSHAW , DAVID L**

633 17TH STREET STE 1550 DENVER , CO 80202

**DAVIS , EUGENE I**

633 17TH STREET STE 1550 DENVER , CO 80202

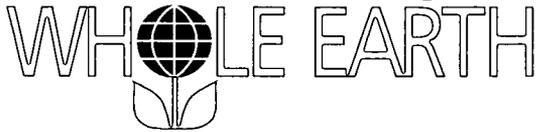
**KRAMER , DOUGLAS**

633 17TH STREET STE 1550 DENVER , CO 80202

**LEES , MARSHALL D**

633 17TH STREET STE 1550 DENVER , CO 80202

[New Search Inquiry Page](#)



**Whole Earth Environmental, Inc.**

19606 San Gabriel, Houston, Texas 77084  
281/492-7077 • Fax: 281/646-8996

RECEIVED  
AUG 23 1999  
OIL CONSERVATION DIVISION

August 18, 1999

New Mexico Oil Conservation Division  
2040 South Pacheco  
Sante Fe, New Mexico 87505

Attn: Bill Olson

Dear Bill:

Enclosed, please find a copy of the chain of custody and laboratory test results for the Lane Salt Lake Monitoring Project. At the time of sampling, the monitor wells located at the lake edge and immediately adjacent to the pit were partially submerged due to recent heavy rainfall. Each was bailed until dry and allowed to recharge over the course of approximately one hour.

The results indicate that a detectable concentration of benzene remains at the intersection of the pits and the playa but that the main watercourse is free of measurable criteria contaminants.

If you've any questions or comments, please do not hesitate to call.

Warmest personal regards,

Mike Griffin  
President  
Whole Earth Environmental, Inc.

cc: Larry Sugano / Tipperary O&G / Denver  
Vic Vice ?Tipperary O&G / Tatum

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 1-281-646-8996

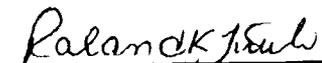
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl  
Project #: Lane Salt Lake  
Project Name: Tipperary  
Project Location: 15 mi. West of Tatum, N.M.

Sampling Date: 08/11/99  
Receiving Date: 08/13/99  
Analysis Date: 08/13/99

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
19167	Lake Site	<0.001	<0.001	<0.001	<0.001	<0.001
19168	Center	<0.001	<0.001	<0.001	<0.001	<0.001
19169	Pit Site	0.001	<0.001	<0.001	<0.001	<0.001

% IA	96	88	85	86	89
% EA	94	91	91	90	92
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030

  
Raland K. Tuttle

8-16-99  
Date





**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

NOV - 9 1998

November 6, 1998

CERTIFIED MAIL

Mr. William C. Olson  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

**RE: Annual Monitoring Report  
Lane Salt Lake Project  
Lea County, NM**

Dear Mr. Olson:

In response to your correspondence of June 26, 1998, please find enclosed the results from the subject project. Three monitoring wells were constructed in August 1998. The Hobbs District Office was notified prior to constructing the wells. Water samples were taken on August 19 and analyzed. The results are enclosed along with a map.

If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Larry G. Sugano  
Vice President - Engineering

cc: NMOCD Hobbs District Office

Enclosures



## **Executive Summary Lane Salt Lake Playa Sampling Project**

### **Construction**

In response to the New Mexico Oil Conservation Division letters of March 2 and June 26, 1998 detailing the requirement of further testing of the Lane Salt Lake playa, Whole Earth erected three monitoring wells within the playa basin in accordance with WEQP-38 (attached). The construction of the wells is in accordance with the enclosed schematic and was performed using a common post hole digger. Samples from each well were collected on August 19, 1998 in accordance with the enclosed WEQP-76(A), and were delivered to the testing laboratory on the same day.

### **Location**

The location of the monitoring wells is described on the attached plat map. The map provides latitudinal and longitudinal coordinates accurate to within six feet. Monitor well # 1 is situated immediately adjacent to the northwestern corner of the perimeter fence surrounding the Burro Pipeline Salt Water Disposal Facility. Monitor well # 2 is located mid-channel immediately south of a prominent, permanent depth marker. Monitor well # 3 is located mid-channel at a distance approximately 250' south of the lake shoreline.

### **Analytical Results**

The collected samples were tested for the presence and concentration of BTEX. The results of the tests and all related QA / QC information is included within the attached laboratory analyses from Environmental Labs of Texas.

### **Future Activities**

Tipperary Corporation will continue to conduct annual testing of the three wells for the presence and concentrations of BTEX until such concentrations fall within New Mexico WQCC standards.

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 1-281-646-8996  
FAX: 505-396-5346 Lovington Inn

Receiving Date: 08/19/98  
Sample Type: Water  
Project Name: Tipperary L.S.L Playa Sampling  
Project #: None Given  
Project Location: Lane Salt Lake

Analysis Date: BTEX 08/20/98  
Analysis Date:  
Sampling Date: 08/19/98  
Sample Condition: Intact/Iced/HCl

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
15250	#1	0.392	0.002	0.001	<0.001	<0.001
15251	#2	0.695	0.003	0.002	0.004	0.001
15252	#3	0.002	0.002	0.001	0.004	0.002

% IA	90	99	103	104	103
% EA	93	101	107	108	109
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030, EPA 418.1

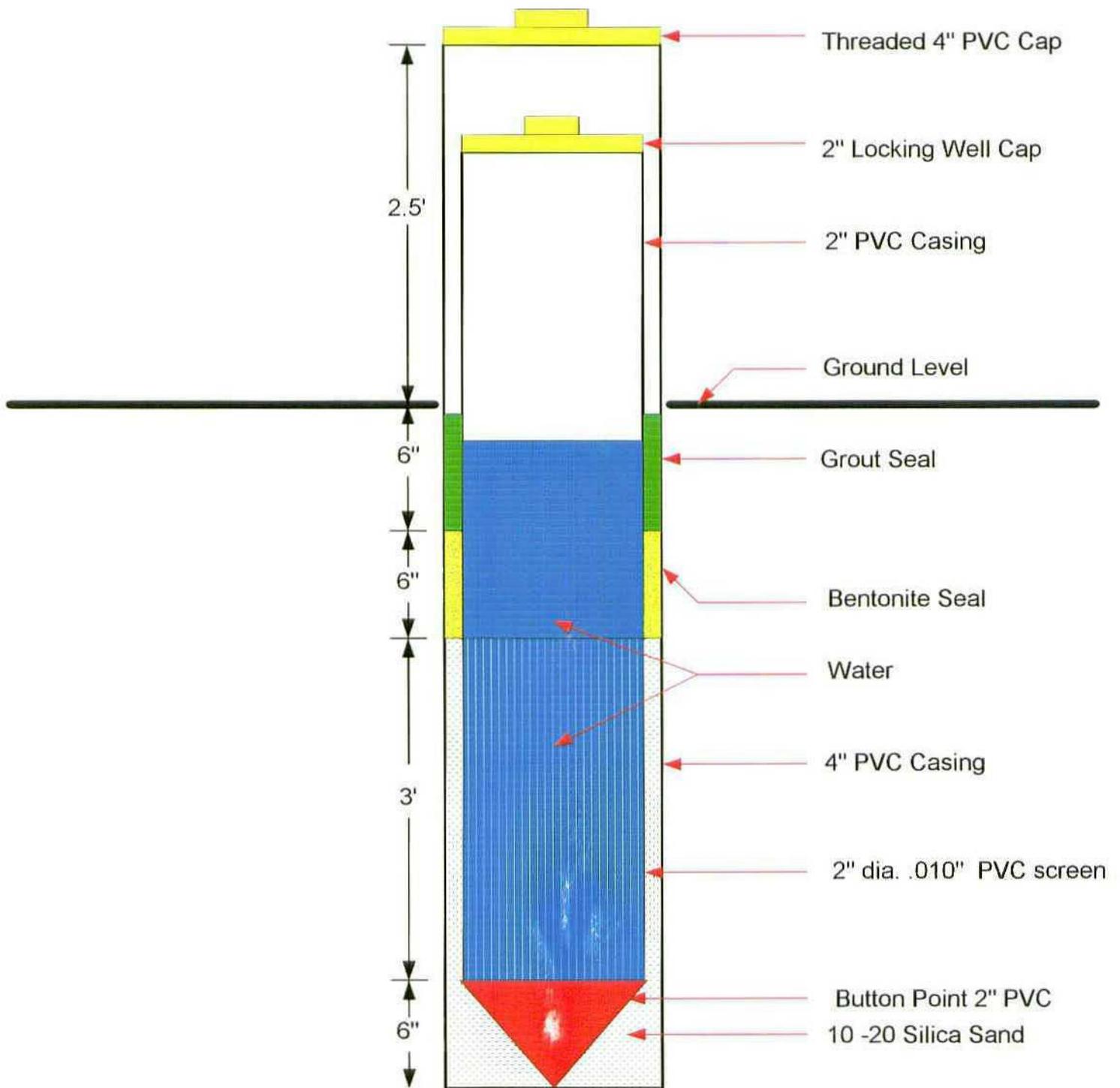
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Raland K. Tuttle

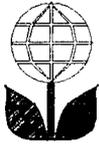
9-2-98  
Date



LOCATION OF MONITOR WELLS  
 LANE SALT LAKE

# Tipperary Corporation Lane Salt Lake Monitoring Well Design





QP-38

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**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

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**Procedure for Obtaining Water Samples From  
Playa Region of Lane Salt Lake**

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Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date:    /    /

---

**1.0 Purpose**

This procedure outlines the methods to be employed in obtaining water samples from the playa region of Lane Salt Lake in Lea County, New Mexico. The playa region is described as that area lying between the northern most impoundment of the Burro Pipeline System's Lane Salt Lake SWD Facility and the edge of the lake, itself.

**2.0 Scope**

This procedure is site specific for this facility

**3.0 Preliminary**

3.1 Two sampling locations will be established along a line extending generally east-northeast from the northernmost edge of the SWD to the nearest edge of the lake. The first sampling point will be at an approximate distance of 600 feet from the pit edge; the second at an approximate distance of 300 feet from the waters edge.

3.2 At each sampling point, a plastic pipe constructed of Teflon or other fluorocarbon material will be inserted into an excavated hole having a minimum depth of 4 foot below ground level. The pipe shall extend above the surface for a minimum distance of 2'. The outside diameter of exposed portion of the pipe will be painted fluorescent orange for easy identification. The construction of each sampling bore is detailed within the attached sketch.

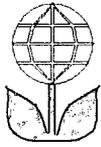
#### **4.0 Sampling Procedure**

Samples shall be taken annually in accordance with WEQP-76 and analyzed for the presence and concentrations of BTEX. Once the BTEX concentrations meet the standards defined within the New Mexico WQCC standards for two consecutive sampling events, the wells will be analyzed for the presence and concentrations of PAH's. As the remediation of this area is to be effected through means of natural attenuation such sampling will continue until such time as two consecutive analyses show BTEX and PAH concentrations at or below WQCC standards.

#### **5.0 Documentation**

The New Mexico Oil Conservation Division will be provided with two copies of the annual sampling results with one copy directed to Santa Fe and the other to the Hobbs District office. Each report shall contain the following minimum information:

- A. Client, Project and sample name.
- A. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
- B. Analytical Results
- C. EPA Approved Test Methods employed
- D. Quality Control methods and results



QP-76 (Rev. A)

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**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

---

**Procedure for Obtaining Water Samples (Cased Wells)  
Using One Liter Bailer**

---

Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date: / /

---

**1.0 Purpose**

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

**2.0 Scope**

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

**3.0 Preliminary**

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO <sub>3</sub>	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

#### **4.0 Chain of Custody**

- 4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.
- 4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.
- 4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

#### **5.0 Bailing Procedure**

- 5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.
- 5.2 The well may be equipped with an individual 1 liter bailing tube. If so, use the tube to bail a volume of water from the well bore equal to 10 liters for each 5' of well bore in the water table. (This assumes a 2" dia. Well bore).
- 5.3 Take care to insure that the bailing device and string do not become cross-contaminated. A clean pair of rubber gloves should be used when handling either the retrieval string or bailer. The retrieval string should not be allowed to come into contact with the ground.

#### **6.0 Sampling Procedure**

- 6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.
- 6.2 Note the time of collection on the sample collection jar with a fine Sharpie.

6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.

6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

**7.0 Documentation**

7.1 The testing laboratory shall provide the following minimum information:

- A. Client, Project and sample name.
- B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
- C. Results of the requested analyses
- D. Test Methods employed
- E. Quality Control methods and results



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

November 17, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-326-936-487**

Ms. Elaine R. Treece  
Burro Pipeline Corporation  
633 Seventeenth Street  
Suite 1550  
Denver, CO 80202

**RE: \$25,000 Bond for Commercial Surface Waste Management Facility  
Burro Pipeline Corporation, Principal  
Section 6 and 7, T 10 S, R 33 E; NMPM, Lea County, New Mexico  
Continental Casualty Co., Surety  
Bond No. 123972081**

Dear Ms. Treece:

The New Mexico Oil Conservation Division (OCD) received Burro Pipeline Corporation's letter dated August 4, 1998. The above referenced letter requested that the OCD cancel the Surface Waste Disposal Bond No. 123972081. Cancellation of the bond is conditional upon compliance with all applicable statutes of the State of New Mexico and all rules, regulations and orders of the OCD, and upon clean-up of the facility site to standards of the OCD.

The Burro Pipeline Corporation's former surface waste disposal facility requires continued monitoring until OCD clean-up standards are met. The **subject bond will remain in full force and effect** until the required clean-up/monitoring is performed and closure of the facility is approved by the OCD.

If you have any questions please call me at (505) 827-7153

Sincerely,

A handwritten signature in cursive script that reads "Martyne J. Kielling".

Martyne J. Kielling  
Environmental Geologist

xc: Hobbs District Office



# Tipperary

CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

August 4, 1998

Mr. William J. Lemay, Director  
Oil Conservation Division  
State of New Mexico  
~~P O Box 2088~~  
Santa Fe, NM 87504

RE: \$25,000 Commercial Surface Waste Disposal Facility  
Burro Pipeline Corporation  
Principal; Continental Casualty Co., Surety  
Section 6 and 7, T-10-S, R-33-E, Lea County  
Bond No. 123972081

Dear Mr. Lemay:

During the past several months, we discontinued disposing of saltwater into the playa lake on the property referenced above and have been in the process of closing the facility at that location. This involved removing the equipment, remedial work to clean up pits, etc. We have been instructed to install monitoring equipment and that is in place. Now we are wondering if it would be appropriate for New Mexico to release the bond. Of course we are willing to provide any evidence of compliance you may require.

Sincerely,

BURRO PIPELINE CORPORATION

Elaine R. Treece  
Corporate Secretary

ET



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

June 26, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-235-437-302**

Mr. Larry Sugano  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: MONITORING PLAN  
LANE SALT LAKE FACILITY**

Dear Mr. Sugano:

The New Mexico Oil Conservation Division (OCD) has reviewed Tipperary Corporation's (TC) April 2, 1998 "MONITORING PLAN, LANE SALT LAKE PROJECT, LEA COUNTY, NEW MEXICO". This document contains TC's work plan for remediation and monitoring of contamination related to the former use of unlined pits at TC's Lane Salt Lake facility.

The above referenced work plan is approved with the following conditions:

1. An additional water quality sampling station will be installed directly downgradient and adjacent to the former pits.
2. All water quality samples will be obtained and analyzed according to EPA approved methods and quality assurance/quality control procedures.
3. The annual monitoring report will be submitted to the OCD by October 1 of each year and will include all sampling data and a map showing the former locations of the pits and the locations of all sampling points.
4. TC will notify the OCD Santa Fe and Hobbs District Offices at least 1 week in advance of installation of the sampling points and all annual sampling events so that the OCD can participate in location of the sampling points and split samples.

Mr. Larry G. Sugano  
June 26, 1998  
Page 2

5. The OCD will not consider remediation and monitoring activities to be complete until contaminant concentrations in all monitoring points are below New Mexico Water Quality Control Commission standards for 4 consecutive sampling events (no less than quarterly sampling events).

Please be advised that OCD approval does not relieve TC of liability if the work plan fails to adequately remediate or monitor contamination related to TC's activities. In addition, OCD approval does not relieve TC of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrologist  
Environmental Bureau

xc: Wayne Price, OCD Hobbs District Office  
Mike Matush, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.



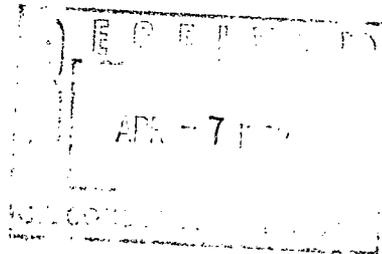
**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

April 2, 1998

CERTIFIED MAIL

Mr. William C. Olson  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505



**RE: Monitoring Plan  
Lane Salt Lake Project  
Lea County, NM**

Dear Mr. Olson:

In response to your letter of March 2, 1998, please find enclosed our proposed monitoring plan for the subject project. Please advise if this plan is acceptable and we will put it in place.

If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Larry G. Sugano  
Vice President - Engineering

cc: Wayne Price, NMOCD Hobbs Office

Enclosure



QP-38

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**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

---

**Procedure for Obtaining Water Samples From  
Playa Region of Lane Salt Lake**

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Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date:    /    /

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**1.0 Purpose**

This procedure outlines the methods to be employed in obtaining water samples from the playa region of Lane Salt Lake in Lea County, New Mexico. The playa region is described as that area lying between the northern most impoundment of the Burro Pipeline System's Lane Salt Lake SWD Facility and the edge of the lake, itself.

**2.0 Scope**

This procedure is site specific for this facility.

**3.0 Preliminary**

3.1 Two sampling locations will be established along a line extending generally east-northeast from the northernmost edge of the SWD to the nearest edge of the lake. The first sampling point will be at an approximate distance of 600 feet from the pit edge; the second at an approximate distance of 300 feet from the waters edge.

3.2 At each sampling point, a plastic pipe constructed of Teflon or other fluorocarbon material will be inserted into an excavated hole having a minimum depth of 4 foot below ground level. The pipe shall extend above the surface for a minimum distance of 2'. The outside diameter of exposed portion of the pipe will be painted fluorescent orange for easy identification. The construction of each sampling bore is detailed within the attached sketch.

**4.0 Sampling Procedure**

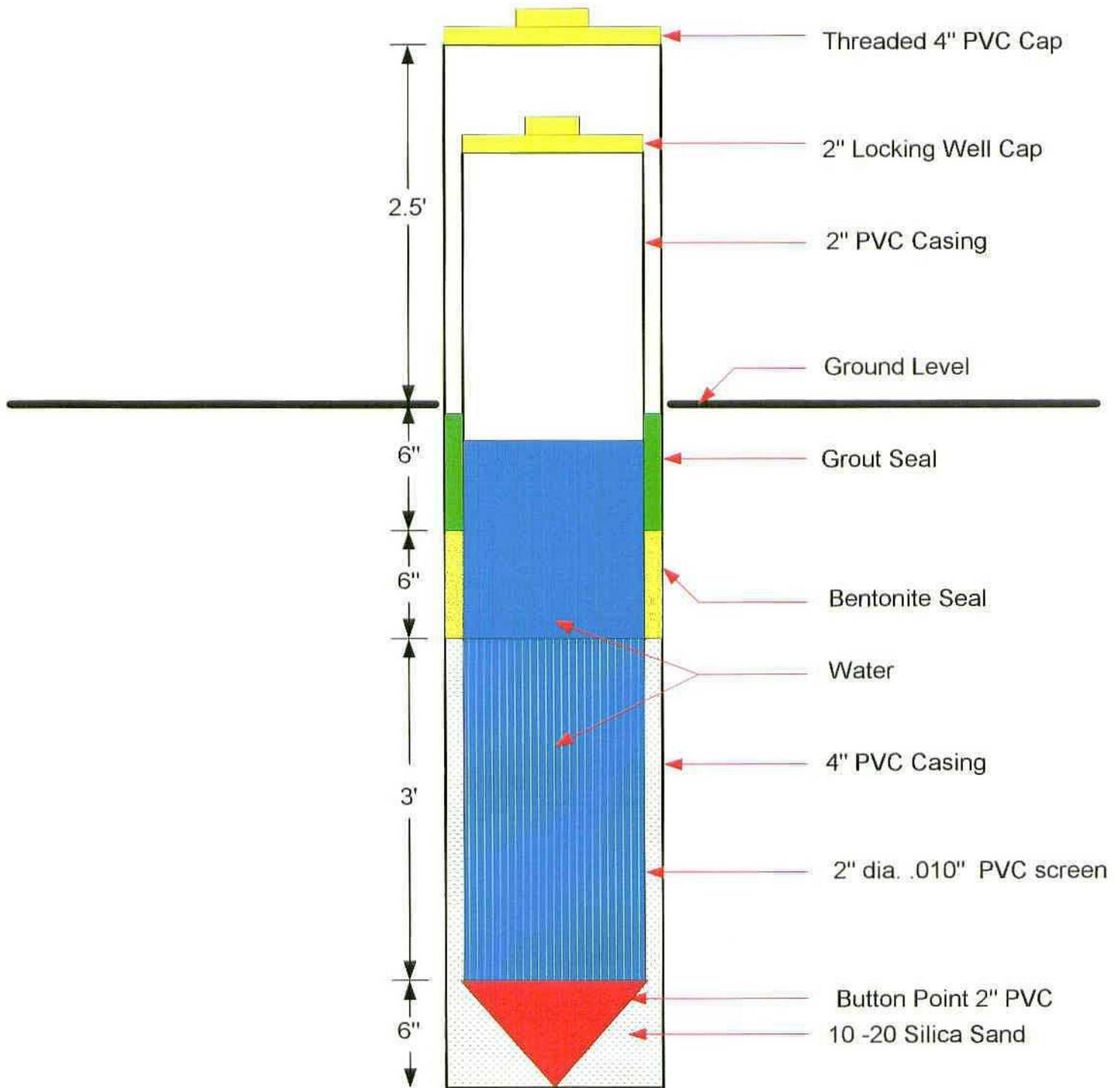
Samples shall be taken annually in accordance with WEQP-76 and analyzed for the presence and concentrations of BTEX. Once the BTEX concentrations meet the standards defined within the New Mexico WQCC standards for two consecutive sampling events, the wells will be analyzed for the presence and concentrations of PAH's. As the remediation of this area is to be effected through means of natural attenuation such sampling will continue until such time as two consecutive analyses show BTEX and PAH concentrations at or below WQCC standards.

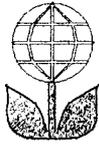
**5.0 Documentation**

The New Mexico Oil Conservation Division will be provided with two copies of the annual sampling results with one copy directed to Santa Fe and the other to the Hobbs District office. Each report shall contain the following minimum information:

- A. Client, Project and sample name.
- B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
- C. Analytical Results
- D. EPA Approved Test Methods employed
- E. Quality Control methods and results

# Tipperary Corporation Lane Salt Lake Monitoring Well Design





QP-76 (Rev. A)

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**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

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**Procedure for Obtaining Water Samples (Cased Wells)  
Using One Liter Bailer**

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Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date: / /

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**1.0 Purpose**

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

**2.0 Scope**

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

**3.0 Preliminary**

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO <sub>3</sub>	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

#### **4.0 Chain of Custody**

- 4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.
- 4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.
- 4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

#### **5.0 Bailing Procedure**

- 5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.
- 5.2 The well may be equipped with an individual 1 liter bailing tube. If so, use the tube to bail a volume of water from the well bore equal to 10 liters for each 5' of well bore in the water table. (This assumes a 2" dia. Well bore).
- 5.3 Take care to insure that the bailing device and string do not become cross-contaminated. A clean pair of rubber gloves should be used when handling either the retrieval string or bailer. The retrieval string should not be allowed to come into contact with the ground.

#### **6.0 Sampling Procedure**

- 6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.
- 6.2 Note the time of collection on the sample collection jar with a fine Sharpie.

- 6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.
- 6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

**7.0 Documentation**

7.1 The testing laboratory shall provide the following minimum information:

- A. Client, Project and sample name.
- B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
- C. Results of the requested analyses
- D. Test Methods employed
- E. Quality Control methods and results

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

March 2, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-235-437-238**

Mr. Larry Sugano  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: CLOSURE REPORT**  
**LANE SALT LAKE FACILITY**

Dear Mr. Sugano:

The New Mexico Oil Conservation Division (OCD) has reviewed Tipperary Corporation's (TC) November 6, 1997 "LANE SALT LAKE SWD PIT CLOSURE PROJECT, LEA COUNTY, NEW MEXICO, RESULTS OF SECOND YEAR MONITORING SAMPLES TAKEN FROM THE REMEDIATED PITS". This document contains the results of soil and ground water samples taken subsequent to the closure of unlined pits at TC's Lane Salt Lake facility. The document also requests final closure approval of the site remedial actions.

The pit soil remedial actions are satisfactory. However, a review of the above referenced document and OCD's September 4-5, 1997 sample analyses shows the offsite downgradient ground water is contaminated with petroleum constituents in excess of New Mexico Water Quality Control Commission (WQCC) standards. Therefore, the OCD can not issue final closure approval and requires that TC submit a work plan for remediation and monitoring for the ground water at the site. The work plan will be submitted to the OCD Santa Fe Office by May 1, 1998 with a copy provided to the OCD Hobbs District Office.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrologist  
Environmental Bureau

xc: Wayne Price, OCD Hobbs District Office  
Mike Matush, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

January 7, 1998

Mr. Larry Sugano  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: GROUND WATER ANALYSES  
LANE SALT LAKE FACILITY AND TATUM PIT CLOSURES**

Dear Mr. Sugano:

Enclosed you will find copies of the New Mexico Oil Conservation Division's (OCD) August 28, 1997, September 4, 1997 and September 5, 1997 laboratory analytical results of soil and ground water samples taken at Tipperary Corporation's (TC) Lane Salt Lake facility and seven of TC's Tatum pit closure sites.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson  
Hydrologist  
Environmental Bureau

Enclosures

xc w/enclosures: Wayne Price, OCD Hobbs District Office  
Mike Griffin, Whole Earth Environmental, Inc.



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

November 6, 1997

Mr. William C. Olson  
Hydrogeologist – Environmental Bureau  
New Mexico Energy And Natural Resources Dept.  
Oil Conservation Division  
2040 South Pacheco 87505  
Santa Fe, New Mexico 87504

Subject: **Lane Salt Lake SWD Pit Closure Project**  
**Lea County, New Mexico**  
**Results of second year monitoring samples taken from the remediated pits.**

Dear Mr. Olson:

Enclosed is a copy of Whole Earth Environmental Inc.'s report on the second year monitoring samples taken at the remediated pit site on September 4<sup>th</sup> and 5<sup>th</sup>, 1997. The report contains a plat showing where the samples were taken as well as the laboratory analysis results. The lab analysis method and QA/QC data are also included.

The soil and water samples taken from both the pit and its adjacent ground-water seep pond all meet the state's requirements for pit closures. Therefore, since this is the 8<sup>th</sup> quarter showing that the pits meet New Mexico's pit closure standards, Tipperary respectfully requests that your office grant "final closure status" for the Lane Salt Lake SWD pits. In the future, we intend to periodically sample the playa shore down gradient from the pit closure area and will keep you informed of the sample analysis results.

Let me know if you have questions or need more information.

Sincerely,

Larry G. Sugano  
Vice President - Engineering

Cc: Wayne Price, OCD Hobbs Office

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STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

February 24, 1997

**CERTIFIED MAIL**

**RETURN RECEIPT NO. P-269-269-264**

Mr. Robert H. Fehlmann  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: POST CLOSURE MONITORING  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

The New Mexico Oil Conservation Division (OCD) has completed a review of the following Tipperary Corporation (TC) documents which contain the results of TC's recent monitoring actions at the facility and a request for the OCD to issue final closure approval of site remedial actions.:

- November 22, 1996 "INFORMATION REQUESTED BY OCD CONCERNING EPA METHODS USED, ANALYSES DETECTION LIMITS, AND QA/QC DATA FOR MONITORING SAMPLE ANALYSES, BURROW PIPELINE'S LANE SALT LAKE SWD PIT CLOSURE, LEA COUNTY, NEW MEXICO"
- September 11, 1996 "LAB ANALYSIS OF WATER SAMPLE COLLECTED FOR PAH ANALYSIS ON AUGUST 27, 1996 AT BURROW PIPELINE CORPORATION'S LANE SALT LAKE SWD PITS LEA COUNTY, NEW MEXICO"
- August 26, 1996 "RESULTS OF FIRST SET OF MONITORING SAMPLES TAKEN FROM BURROW PIPELINE CORPORATION'S LANE SALT LAKE SWD PITS LEA COUNTY, NEW MEXICO"

Prior to considering final closure of site remedial actions, the OCD requires that TC conduct the following post closure monitoring:

1. The sampling activities show that dissolved petroleum contaminants are present in water seeping from the former facility at concentrations below the New Mexico Water Quality Control Commission (WQCC) standards. Therefore, the OCD requires that TC resample the seep area and obtain a ground water sample from the playa shores downgradient of the seep area in August of 1997. The samples will be obtained and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAH) using appropriate EPA methods and quality assurance/quality control. A report containing the sample locations, sample results and quality assurance/quality control data will be submitted to the OCD by October 1, 1997.

Mr. Robert H. Fehlmann  
February 24, 1997  
Page 2

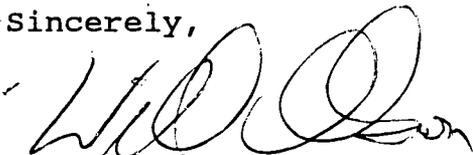
2. The post closure soil sampling was not conducted according to appropriate EPA methods as required in OCD's July 2, 1996 approval of TC's post closure monitoring plan. In addition, the post closure sampling did not include the quality assurance/quality control laboratory samples that TC stated they would perform (see TC May 1, 1996 "REPLY TO CLOSURE REPORT QUESTIONS IN YOUR APRIL 12, 1996 LETTER, LANE SALT LAKE DISPOSAL FACILITY, BURROW PIPELINE CORPORATION"). Therefore, the OCD requires that TC repeat the previously approved post closure soil sampling program in August of 1997. The samples will be obtained and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and total petroleum hydrocarbons (TPH) using appropriate EPA methods and quality assurance/quality control. A report containing the sample locations, sample results and quality assurance/quality control data will be submitted to the OCD by October 1, 1997.

Based upon the results of the post closure samples, if TC can demonstrate that the remaining contaminants will not pose a future threat to human health, ground water, surface water or the environment, the OCD will consider issuing final closure approval of the site remedial actions.

Please notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrogeologist  
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Linda Freedman, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

RECEIVED  
OIL & GAS DIVISION  
NOV 23 1996  
10 52

November 22, 1996

Mr. William C. Olson  
Hydrogeologist - Environmental Bureau  
New Mexico Energy and Natural Resources Dept.  
Oil Conservation Division  
2040 Pacheco  
Santa Fe, New Mexico

**RE: INFORMATION REQUESTED BY OCD CONCERNING EPA  
METHODS USED, ANALYSES DETECTION LIMITS, AND  
QA/QC DATA FOR MONITORING SAMPLE ANALYSES,  
BURROW PIPELINE'S LANE SALT LAKE SWD PIT CLOSURE,  
LEA COUNTY, NEW MEXICO**

Dear Mr. Olson:

In your letter of October 25, 1996, you requested information about EPA methods used, analyses detections limits, and QA/QC information on the Lane Salt Lake Monitoring Samples Tipperary reported to you September 11, 1996. I have enclosed a copy of Mike Griffin's (Whole Earth Environmental, Inc.) November 16, 1996 letter to Tipperary which contains this information. We should have included the data with the original report.

A copy of this letter and enclosures has been sent to Mr. Wayne Price in your Hobbs office. Let me know if there is anything else you need.

Sincerely,

Robert H. Fehlmann  
Environmental Coordinator



Whole Earth Environmental, Inc.

19606 San Gabriel, Houston, Texas 77084  
713/492-7077 Fax: 713/492-7077

November 16, 1996

Tipperary Corporation  
633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

Attn: Bob Fehlmann

Dear Bob:

I'm in receipt of Mr. Olson's letter to you of October 25 regarding the field testing performed on the Lane Salt Lake Project. we respond as follows:

**Question**

1. Please provide the OCD with the EPA laboratory analysis method and detection limits of the soil benzene, toluene, ethylbenzene and xylene (BTEX) analysis.

**Answer**

The Photovac analyzer is not included within EPA Methods. The lower detection limit for benzene is 0.1 ppm. For toluene, ethylbenzene and xylene it is 1.0 ppm. The instrument accuracy is 15% within one decade of the instrument set point.

**Question**

2. Please provide the OCD with the quality assurance / quality control data for the soil BTEX and total petroleum hydrocarbon analyses.

**Answer**

A. The chromatograph for measuring BTEX was calibrated in accordance with WEQP-55 (attached) at the start of each day, each thirty minutes of use, and after each concentration spike of greater than 10 ppm of a measured component. In accordance with the procedure, the displayed results of the confirmation sample must exactly match those of the calibration gas or the instrument is pulled from service.

B. The TPH Analyzer was calibrated at the start of each day, and periodically during the day in accordance with Paragraph 5 of WEQP-25 (attached).



I hope that this satisfies the OCD's requirements for the work already performed. In the future, all records of calibration and quality control will accompany the actual test results.

Warmest regards,

Mike Griffin  
President  
Whole Earth Environmental, Inc.



---

**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

---

**Procedure for Instrument Calibration  
and Quality Assurance Analysis for  
General Analysis "MEGA" TPH Analyzer**

---

Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date: / /

---

### **1.0 Purpose**

This procedure outlines the methods to be employed in calibrating the GAC MEGA TPH analyzer and for determining and reporting of accuracy curves.

### **2.0 Scope**

This procedure shall be followed each day that the instrument is used.

### **3.0 Procedure**

3.1 Turn the instrument on and allow to warm up with no cuvette in the receptacle. The instrument will take between five and ten minutes to come into equilibrium as can be determined by the concentration display readings moving a maximum of 5 ppm on the low scale. If the instrument continues to display erratic readings greater than 5 ppm, remove the cover and check both the mirrors and chopper to insure cleanliness.

3.2 All TPH standards shall be purchased from Environmental Resources Corporation and as a condition of their manufacture subject to independent certification by third party laboratories. Each standard is received with a calibration certificate.

3.3 Insert the low range (100 ppm) calibration standard into the receiving port and note the result on the right hand digital display. If the displayed reading is less than 98 ppm or greater than 102 ppm, remove the circuit board cover panel and zero out the instrument in accordance with QP-26.

(Note: Except in New Mexico, set the span to read 105% of actual standard).

3.4 Repeat the process with the mid range (500 ppm) calibration standard. If the displayed reading is less than 490 ppm or greater than 510 ppm zero out the span as described in QP-26.

3.5 Repeat the process again with the 1,000 and 5,000 ppm calibration standards.

3.6 Pour clean Freon 113 into a filter cartridge and extract into 10 ml cuvette. Insert the cuvette into the receiving port and zero out the instrument reading using the far right adjustment knob on the instrument. Repeat using the 1ml cuvette and the left hand zero dial.

#### 4.0 Determining & Reporting Instrument Accuracy

4.1 After making the fine adjustment with the zero dials reinsert each calibration standard into the instrument and note the concentration values. *If any concentration value exceed 2% of the standard set point, repeat all steps in section 3.0 of this Procedure.* Note the actual concentration values displayed by the instrument after each calibration standard.

4.2 The four calibration standards shall be used in reporting span deviation as follows:

Standards Range			
100 ppm	500 ppm	1,000 ppm	5,000 ppm
0-250 ppm	251-750 ppm	751-2,500 ppm	2,501-10,000 ppm

4.3 Divide the actual instrument reading value of each calibration sample by the concentration shown on the standard (eg. 501 ppm instrument reading / 500 ppm standard = 1.002%). These readings shall be reported for each test performed.

#### 5.0 Recalibration

5.1 If any sample exceeds the concentration of 1,000 ppm on the 10 ml cuvette or 10,000 ppm on the 1 ml cuvette, the cuvette must be thoroughly rinsed with clean Freon and the instrument re-zeroed in accordance with 3.6 of this procedure.



---

**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

---

**Procedure for Instrument Calibration  
and Quality Assurance Analysis for  
Photovac Gas Chromatograph**

---

Completed By:

Approved By:

Effective Date: / /

---

### **1.0 Purpose**

This procedure outlines the methods to be employed in calibrating the Photovac analyzer in the BTEX mode and for determining and reporting of accuracy curves.

### **2.0 Scope**

This procedure shall be followed each day that the instrument is used.

### **3.0 Procedure**

#### **Start-up**

3.1 Turn the instrument on and press the Battery button. A battery status report will appear on the screen. If the charge level is less than 8.0, either charge the battery or insert a fresh battery pack.

3.2 Open carrier gas valve on right side of instrument. The instrument is now tuning the lamp. If any "boot" problems occur during warm-up, the "chck" symbol will appear on the screen. Pressing TUTOR will prompt the instrument to provide details. The instrument will not progress beyond the start-up mode until all prompts are cleared.

3.3 The next screen display will be "purj" and will last approximately ten minutes. The instrument is purging the column.

**Calibrate**

3.4 Connect the regulator to cylinder of calibration gas. Connect calibration adapter and tee assembly to both the regulator and instrument. **DO NOT FORCE ANY CONNECTION!**

3.5 Inspect the open end of the tee vent to insure unobstructed flow.

3.6 Enter CAL on the key pad. The instrument will query "benzene?". Following the prompts and using the key pad, set the concentrations to those defined on the calibration gas bottle. Follow the same procedure for toluene, ethyl-benzene and xylene. After each compound, the instrument will read that the next analysis will be a calibration.

3.7 Press ENTER on key pad. The instrument will calibrate itself for the concentrations specified.

**Confirmation Sample**

3.8 After each calibration, run the calibration gas through the instrument once again. The display readings should be exactly those of the concentrations displayed on the calibration gas bottle. **If they are not, the instrument needs factory calibration; do not use.**

**4.0 Recalibration**

4.1 The instrument is designed with software that prompts you to recalibrate each day, each thirty minutes of use, and after running a sample with high concentrations of one or more of the detected compounds.

**5.0 Reporting Instrument Accuracy**

5.1 The instrument accuracy as certified by the factory is 15% within one decade of instrument set point. Lower detection limits are 0.1 ppm for benzene and 1.0 ppm for toluene, ethylbenzene and xylene.

5.2 These standards and detection limits must be shown on all reports in which the instrument is used.



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

October 25, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-269-269-209**

Mr. Robert H. Fehlmann  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: POST CLOSURE MONITORING  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

The New Mexico Oil Conservation Division (OCD) is in the process of reviewing Tipperary Corporation's (TC) September 11, 1996 and August 26, 1996 monitoring reports on the former Burro Pipeline Corporation Lane Salt Lake Disposal Facility. These documents contain the results of TC's recent monitoring actions at the facility and a request for the OCD to issue final closure approval of site remedial actions.

The OCD has the following comments and requests for information regarding the above referenced documents:

1. Please provide the OCD with the EPA laboratory analysis method and the detection limits of the soil benzene, toluene, ethylbenzene and xylene (BTEX) analyses.
2. Please provide the OCD with the quality assurance/quality control data for the soil BTEX and total petroleum hydrocarbon analyses.

Submission of the above requested information will allow the OCD to complete a review of these documents. If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson  
Hydrogeologist  
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Linda Freedman, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

CONSERVATION DIVISION  
RECEIVED

1996 SEP 11 10 08 52

September 11, 1996

Mr. William C. Olson  
Hydrogeologist - Environmental Bureau  
New Mexico Energy and Natural Resources Dept.,  
Oil Conservation Division  
2040 Pacheco  
Santa Fe, New Mexico

RE: Lab analysis of water sample collected for PAH analysis on August 27, 1996 at Burrow Pipeline Corporation's Lane Salt Lake SWD pits Lea County, New Mexico.

Dear Mr. Olson:

Enclosed is a copy of Tipperary's laboratory analysis for PAH on a water sample taken at Lane Salt Lake on August 27, 1996. This sample and lab report should cover the data gap left due to our inadvertant omission of the PAH analysis in our first "Monitor Samples Report", (Transmitted to you by my letter of 8/26/96). Please add this new information to your file.

I have also forwarded a copy of this report to Wayne Price, in the OCD's Hobbs, NM office. Let me know if you have any questions.

Sincerely,

Robert H. Fehlmann  
Environmental Coordinator

cc: Wayne Price, OCD Hobbs Office



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.  
MR. MIKE GRIFFIN  
16337 PARK ROW  
HOUSTON, TEXAS 77084-5191  
FAX: 800-854-4358

Receiving Date: 08/27/96  
Sample Type: WATER  
Project Location: 1, LANE LAKE SWD  
Project Name: TIPPERARY OIL

Analysis Date: 09/05/96  
Sampling Date: 08/27/96  
Sample Condition: Intact/Iced

EPA SW846 8270 (mg/l)	PQL	ELT# 8831	QC	RPD	%EA	%IA
Naphthalene	0.001	ND	76	3	70	95
Acenaphthylene	0.001	ND	73	3	75	91
Acenaphthene	0.001	ND	73	3	75	91
Fluorene	0.001	ND	73	4	81	91
Phenanthrene	0.001	ND	82	3	81	103
Anthracene	0.001	ND	73	1	68	91
Fluoranthene	0.001	ND	74	1	76	93
Pyrene	0.001	ND	81	4	87	101
Benzo[a]anthracene	0.001	ND	70	1	74	88
Chrysene	0.001	ND	77	3	78	96
Benzo[b]fluoranthene	0.001	ND	70	3	77	88
Benzo[k]fluoranthene	0.001	ND	67	4	79	84
Benzo[a]pyrene	0.001	ND	73	3	80	91
Indeno[1,2,3-cd]pyrene	0.001	ND	73	4	78	91
Dibenz[a,h]anthracene	0.001	ND	74	3	73	93
Benzo[g,h,i]perylene	0.001	ND	74	5	80	93

#### % RECOVERY

Nitrobenzene-d5 SURR 69  
2-Fluorobiphenyl SURR 75  
Terphenyl-d14 SURR 75

ND= NOT DETECTED  
Method: EPA SW 846 8270, 3550

  
Michael R. Fowler

9-9-96  
Date

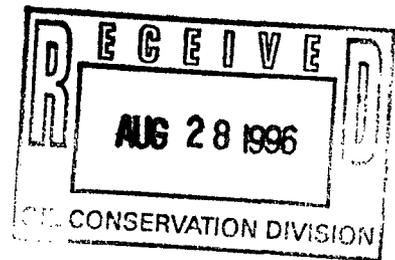




# Tipperary

CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202  
August 26, 1996



Mr. William C. Olson  
Hydrogeologist - Environmental Bureau  
New Mexico Energy and Natural Resources Dept.,  
Oil Conservation Division  
2040 Pacheco  
Santa Fe, New Mexico

RE: Results of first set of monitoring samples taken from  
Burrow Pipeline Corporation's Lane Salt Lake SWD  
pits Lea County, New Mexico

**RECEIVED**

AUG 28 1996

Environmental Bureau  
Oil Conservation Division

Dear Mr. Olson:

Enclosed is a copy of Whole Earth Environmental Inc.'s report on the monitoring samples taken on 7/18/96 for Tipperary Corporation at the Lane Salt Lake SWD pits. The report contains a plat showing where the samples were taken as well as the laboratory analysis results. (I have included a copy of the State of New Mexico's "duplicate sample" lab results as well. Thanks for sending us the copy of your lab analysis results so quickly.)

Inadvertently, a PAH analysis of the Tipperary's water sample was not run. A new sample was taken for PAH analysis and sent to Environmental Labs of Texas on 8/23/96. Results of this analysis will be forwarded to you as soon as we receive them.

Tipperary would like to receive "final closure status" from New Mexico as soon as possible. However, in order for us all to meet EPA requirements, I understand that even though the required sample parameters tested below the maximum allowable limits, we may need to collect and analyze a second set of monitoring samples after the second anniversary of the pits' closure date before we can be granted "final closure status".

Please let me know if you have questions or if you need additional information.

Sincerely,

Robert H. Fehlmann  
Environmental Coordinator

cc: Wayne Price, OCD Hobbs Office

July, 1996 Sample

AVERY



## **Lane Salt Lake Water Disposal Pits July, 1996 Re-sampling Project Executive Summary**

### **1. Site Inspection & Sampling**

On July 17, 1996 Whole Earth Environmental, Inc. conducted a field survey in accordance with Whole Earth Quality Procedure QP-32 submitted to Tipperary on April 19, 1996. The surface of the location was examined and found to be free of hydrocarbon seeps, staining or strong odor.

A total of sixteen soil samples were analyzed for TPH and BTEX concentrations. The sample locations were taken from locations at in proximity to the confirmation sample locations of October, 1995. The sample results and plat map of the site are enclosed.

### **2. Witnessing**

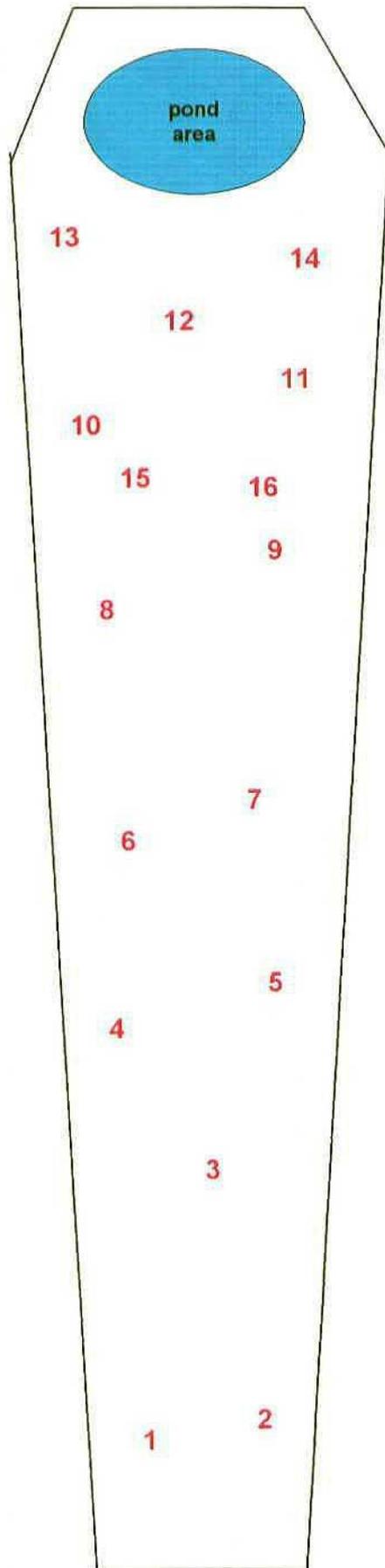
On July 18, Whole Earth was met at the location by Messrs. Olson and Price of the New Mexico Oil Conservation Division. Duplicate water samples were obtained and analyzed for BTEX, volatile, semi-volatile compounds. The Whole Earth sample was sent to Environmental Labs of Texas in Odessa, Texas, while the OCD sample was sent to American Environmental Network, Inc. in Albuquerque, New Mexico. Results of both sample sets are enclosed.

### **3. Test Results**

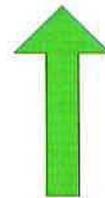
Two TPH test results (sample points 10 & 11) revealed concentrations higher than the approved guidelines however all BTEX, volatile and semi-volatile results were found to be within acceptance criteria. The OCD test results for polynuclear aromatic hydrocarbon compounds (PAH) were additionally found to contain trace amounts of naphthalene compounds however the concentrations were within acceptance standards. Whole Earth has submitted a similar confirmation sample for PAH testing to Environmental Labs of Texas on August 23rd.

### **4. Monitoring**

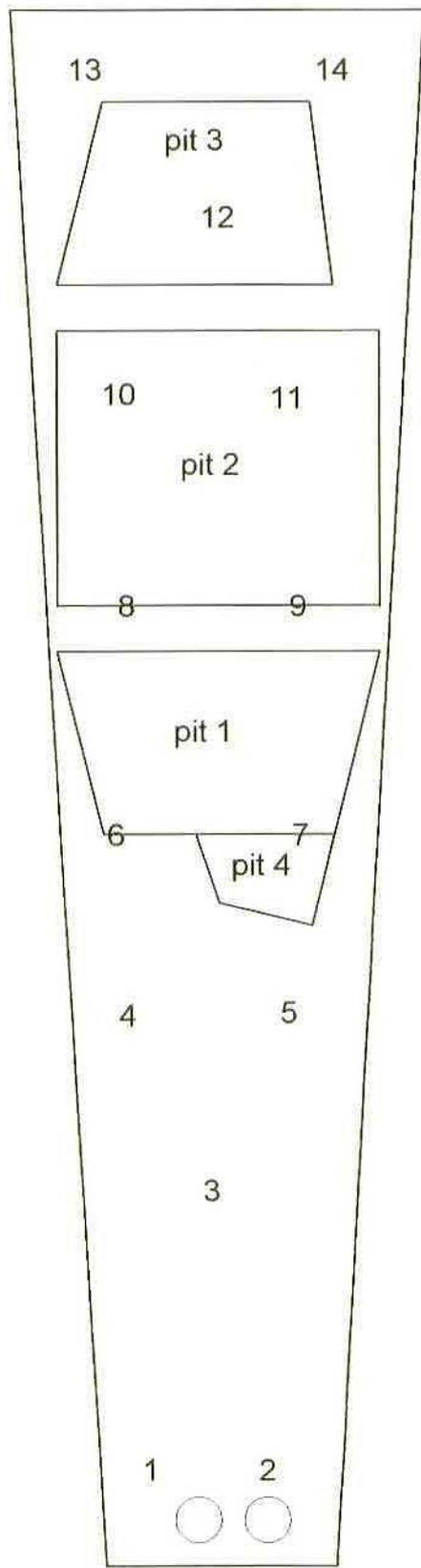
The New Mexico OCD has requested that a final test survey be conducted before the second anniversary of the pit closure. It is my recommendation that no additional remediation activities are required at the facility until the time of final sampling.



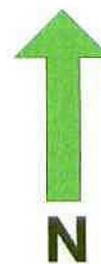
Sample Locations  
July '96



225'



October '95  
Sample Locations



850'

110'



ANALYTICAL REPORT FORM

Well Name:     N / A    

Date of Collection:     07 / 18 / 96    

Pit Type:     Brine Discharge    

Date of Analysis:     07 / 18 / 96    

Client:     Tipperary O & G    

Analyst:     M. Griffin    

TPH Analyzer S/N:     01159    

VOC Analyzer S/N:                     

Chromatograph S/N     920043    

ANALYSIS:     TPH / VOC Confirmation Testing for New Mexico Pit Closures    

ANALYTICAL METHOD:     Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19    

SAMPLE PREPARATION:     Solvent Extraction / Volatilization    

	SP # 1 @ 3'	SP # 2 @ 4'	SP# 3 @ 3'	SP # 4 @ 4'	SP # 5 @ 4'
TPH	3,070	120	2,420	1,410	2,510
VOC					
Benzene	N / D	N / D	N / D	N / D	N / D
Toluene	N / D	N / D	N / D	N / D	N / D
Ethyl-Benzene	N / D	N / D	N / D	N / D	N / D
Xylene	N / D	N / D	N / D	N / D	N / D

Temperature of sample:     N / A     °F

Notes: 1. All results shown in mg/L (ppm).



ANALYTICAL REPORT FORM

Well Name:     N / A    

Date of Collection:     07 / 18 / 96    

Pit Type:     Brine Discharge    

Date of Analysis:     07 / 18 / 96    

Client:     Tipperary O & G    

Analyst:     M. Griffin    

TPH Analyzer S/N:     01159    

VOC Analyzer S/N:                     

Chromatograph S/N     920043    

ANALYSIS:     TPH / VOC Confirmation Testing for New Mexico Pit Closures    

ANALYTICAL METHOD:     Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19    

SAMPLE PREPARATION:     Solvent Extraction / Volatilization    

	SP # 6 @ 4'	SP # 7 @ 4'	SP# 8 @ 5'	SP # 9 @ 5'	SP # 10 @ 5'
TPH	4,000	4,900	290	930	4,160
VOC					
Benzene	N / D	N / D	N / D	N / D	N / D
Toluene	N / D	N / D	N / D	N / D	N / D
Ethyl-Benzene	N / D	N / D	N / D	N / D	N / D
Xylene	N / D	N / D	N / D	N / D	N / D

Temperature of sample:     N / A     °F

Notes: 1. All results shown in mg/L (ppm).



ANALYTICAL REPORT FORM

Well Name:     N/A    

Date of Collection:     07 / 18 / 96    

Pit Type:     Brine Discharge    

Date of Analysis:     07 / 18 / 96    

Client:     Tipperary O & G    

Analyst:     M. Griffin    

TPH Analyzer S/N:     01159    

VOC Analyzer S/N:                     

Chromatograph S/N     920043    

ANALYSIS:     TPH / VOC Confirmation Testing for New Mexico Pit Closures    

ANALYTICAL METHOD:     Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19    

SAMPLE PREPARATION:     Solvent Extraction / Volatilization    

	SP # 10 @ 5.5'	SP # 10 @ 6'	SP# 11 @ 5.5'	SP #12 @ 3'	SP # 13 @ 3'
<b>TPH</b>	5,420	3,960	5,080	290	1,180
<b>VOC</b>					
<b>Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample:     N/A     °F

Notes: 1. All results shown in mg/L (ppm).



ANALYTICAL REPORT FORM

Well Name:     N/A    

Date of Collection:     07 / 18 / 96    

Pit Type:     Brine Discharge    

Date of Analysis:     07 / 18 / 96    

Client:     Tipperary O & G    

Analyst:     M. Griffin    

TPH Analyzer S/N:     01159    

VOC Analyzer S/N:                     

Chromatograph S/N     920043    

ANALYSIS:     TPH / VOC Confirmation Testing for New Mexico Pit Closures    

ANALYTICAL METHOD:     Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19    

SAMPLE PREPARATION:     Solvent Extraction / Volatilization    

	SP # 14 @ 6'	SP # 14 @ 5'	SP# 15 @ 5'	SP #16 @ 4'	
TPH	1,070	1,040	230	2,660	
VOC					
Benzene	N / D	N / D	N / D	N / D	
Toluene	N / D	N / D	N / D	N / D	
Ethyl-Benzene	N / D	N / D	N / D	N / D	
Xylene	N / D	N / D	N / D	N / D	

Temperature of sample:     N/A     °F

Notes: 1. All results shown in mg/L (ppm).

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.  
MR. MIKE GRIFFIN  
16337 PARK ROW  
HOUSTON, TEXAS 77084-5191  
FAX: 713-578-1190

RECEIVING DATE: 07/18/96  
SAMPLE TYPE: WATER  
PROJECT : CANE SALT LAKE  
FIELD CODE: CANE SALT LAKE

ANALYSIS DATE: 08/05/96  
SAMPLING DATE: 07/18/96  
SAMPLE CONDITION: Intact/Iced

TCLP VOLATILES (ppm)	SAMPLE 8001	PQL	BLANK	%EA	%IA
1,1-Dichloroethene	ND	0.005	ND	80	119
2-Butanone	ND	0.100	ND		109
Chloroform	ND	0.005	ND		100
Benzene	ND	0.005	ND	77	104
1,2-Dichloroethane	ND	0.005	ND		101
Vinyl Chloride	ND	0.005	ND		106
Carbon Tetrachloride	ND	0.005	ND		67
Trichloroethene	ND	0.005	ND	97	100
Tetrachloroethene	ND	0.005	ND		85
Chlorobenzene	ND	0.005	ND	98	91
1,4-Dichlorobenzene	ND	0.005	ND		106

SYSTEM MONITORING COMPOUNDS

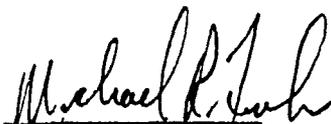
% RECOVERY

dibromofluoromethane	106
toluene-d8	120
4-bromofluorobenzene	114

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240, 1311

  
Michael R. Fowler

8-5-96  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.  
MR. MIKE GRIFFIN  
16337 PARK ROW  
HOUSTON, TEXAS 77084-5191  
FAX: 713-578-1190

Receiving Date: 07/18/96  
Sample Type: WATER  
Project #: CANE SALT LAKE  
Project Location: CANE SALT LAKE  
Field Code: CANE SALT LAKE

Analysis Date: 07/24/96  
Sampling Date: 07/18/96  
Sample Condition: Intact/Iced

TCLP SEMIVOLATILE ORGANICS (ppm)	REPORTING LIMIT	ELT# 8001	RPD	%EA	%IA
Pyridine	0.050	ND	122	46	93
1,4-Dichlorobenzene	0.050	ND	1	69	100
o-Cresol	0.050	ND	15	65	102
Nitrobenzene	0.050	ND	1	87	107
m,p -Cresol	0.050	ND	27	122	104
Hexachloroethane	0.050	ND	3	84	108
Hexachlorobutadiene	0.050	ND	1	83	99
2,4,6-Trichlorophenol	0.050	ND	1	79	97
2,4,5-Trichlorophenol	0.050	ND	2	95	96
2,4-Dinitrotoluene	0.050	ND	4	79	103
Hexachlorobenzene	0.050	ND	1	93	99
Pentachlorophenol	0.050	ND	7	78	105

ND= NOT DETECTED, < REPORTING LIMIT  
SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	19
Phenol-d5	14
Nitrobenzene-d5	36
2-Fluorobiphenyl	38
2,4,6-Tribromophenol	67
Terphenyl-d14	100

Method: SW 846-8270,1311

  
Michael R. Fowler

8-5-96  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.  
MR. MIKE GRIFFIN  
16337 PARK ROW  
HOUSTON, TEXAS 77084-5191  
FAX: 713-578-1190

Receiving Date: 07/18/96  
Sample Type: WATER  
Project : CANE SALT LAKE  
Project #: CANE SALT LAKE

Analysis Date: 07/19/96  
Sampling Date: 07/18/96  
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENE (mg/l)	o-XYLENE (mg/l)
8001	CANE SALT LAKE	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	100	93	95	96	94
% EA	82	82	75	78	77
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020.5030

  
Michael R. Fowler

8-5-96  
Date



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

August 16, 1996

Mr. Robert H. Fehlmann  
Environmental Coordinator  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: SEEP WATER QUALITY  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

Enclosed you will find copies of the New Mexico Oil Conservation Division (OCD) water quality analytical results from samples of the seep area downgradient of Tipperary Corporation's (TC) former Lane Salt Lake Disposal Facility.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson  
Hydrogeologist  
Environmental Bureau

xc w/enclosures: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Linda Freedman, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.

# *American Environmental Network, Inc.*

AEN I.D. 607339

August 1, 1996

New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

**RECEIVED**

AUG 07 1996

Environmental Bureau  
Oil Conservation Division

Project Name       LANE LAKE  
Project Number    (none)

Attention: Bill Olson

On 7/18/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8310 analyses were performed by American Environmental Network (FL) Inc., 11 East Olive Road, Pensacola, FL.

All other analyses were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.



Kimberly D. McNeill  
Project Manager



H. Mitchell Rubenstein, Ph. D.  
Laboratory Manager

MR: mt

Enclosure

CLIENT	: N.M. OIL CONSERVATION DIVISION	AEN I.D.	: 607339
PROJECT #	: (none)	DATE RECEIVED	: 7/18/96
PROJECT NAME	: LANE LAKE	REPORT DATE	: 8/1/96
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9607181145	AQUEOUS	7/18/96
02	TRIP BLANK	AQUEOUS	7/16/96

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)  
 CLIENT : N.M. OIL CONSERVATION DIVISION AEN I.D.: 607339  
 PROJECT # : (none)  
 PROJECT NAME : LANE LAKE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	9607181145	AQUEOUS	7/18/96	NA	7/19/96	1
02	TRIP BLANK	AQUEOUS	7/16/96	NA	7/19/96	1

PARAMETER	DET. LIMIT	UNITS	01	02
BENZENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5

SURROGATE:  
 BROMOFLUOROBENZENE (%) 109 102  
 SURROGATE LIMITS (80 - 120) (80 - 120)

CHEMIST NOTES:

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST : BTEX, MTBE (EPA 8020) AEN I.D. : 607339  
BLANK I. D. : 071996  
CLIENT : NMOCD DATE ANALYZED : 7/19/96  
PROJECT # : (none) SAMPLE MATRIX : AQUEOUS  
PROJECT NAME : LANE LAKE

---

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<0.5

SURROGATE:  
BROMOFLUOROBENZENE (%) 106  
( 80 - 120 )

CHEMIST NOTES:

GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST : BTEX, MTBE (EPA 8020)  
 MSMSD # : 607339-01 AEN I.D. : 607339  
 CLIENT : N.M. OIL CONSERVATION DIVISION  
 PROJECT # : (none) DATE ANALYZED : 7/19/96  
 PROJECT NAME : LANE LAKE SAMPLE MATRIX : AQUEOUS  
 UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	10.3	103	9.9	99	4	(80 - 120)	20
TOLUENE	<0.5	10.0	10.0	100	9.8	98	2	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	10.0	100	9.7	97	3	(80 - 120)	20
TOTAL XYLENES	<0.5	30.0	30.8	103	29.6	99	4	(80 - 120)	20
ETHYL-t-BUTYL ETHER	<2.5	20.0	25.6	128	25.8	129	1	(70 - 133)	20

CHEMIST NOTES:

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

"FINAL REPORT FORMAT - SINGLE"

Accession: 607441  
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO  
Project Number: 607339  
Project Name: NMOCD  
Project Location: LANE LAKE  
Test: POLYNUCLEAR AROMATICS BY 8310  
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Matrix: WATER  
QC Level: II

Lab Id: 001  
Client Sample Id: 607339-01  
Sample Date/Time: 18-JUL-96 1145  
Received Date: 20-JUL-96

Batch: PAW130  
Blank: A  
Dry Weight %: N/A  
Extraction Date: 23-JUL-96  
Analysis Date: 27-JUL-96

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	4	1	
ACENAPHTHYLENE	UG/L	2	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	1	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	2	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	8	1	
2-METHYLNAPHTHALENE	UG/L	3	1	
2-CHLOROANTHRACENE	%REC/SURR	117	28-138	
ANALYST	INITIALS	BV		

Comments:

"Method Report Summary"

Accession Number: 607441  
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO  
Project Number: 607339  
Project Name: NMOCD  
Project Location: LANE LAKE  
Test: POLYNUCLEAR AROMATICS BY 8310

---

Client Sample Id:	Parameter:	Unit:	Result:
607339-01	ACENAPHTHENE	UG/L	4
	ACENAPHTHYLENE	UG/L	2
	FLUORANTHENE	UG/L	1
	NAPHTHALENE	UG/L	2
	1-METHYLNAPHTHALENE	UG/L	8
	2-METHYLNAPHTHALENE	UG/L	3

"QC Report"

Title: Water Blank  
Batch: PAW130  
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

---

Blank Id: A Date Analyzed: 27-JUL-96 Date Extracted: 23-JUL-96

Parameters:	Units:	Results:	Reporting Limits:
ACENAPHTHENE	UG/L	ND	1
ACENAPHTHYLENE	UG/L	ND	1
ANTHRACENE	UG/L	ND	1
BENZO (a) ANTHRACENE	UG/L	ND	1
BENZO (a) PYRENE	UG/L	ND	1
BENZO (b) FLUORANTHENE	UG/L	ND	1
BENZO (g, h, i) PERYLENE	UG/L	ND	1
BENZO (k) FLUORANTHENE	UG/L	ND	1
CHRYSENE	UG/L	ND	1
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1
FLUORANTHENE	UG/L	ND	1
FLUORENE	UG/L	ND	1
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1
NAPHTHALENE	UG/L	ND	1
PHENANTHRENE	UG/L	ND	1
PYRENE	UG/L	ND	1
1-METHYLNAPHTHALENE	UG/L	ND	1
2-METHYLNAPHTHALENE	UG/L	ND	1
2-CHLOROANTHRACENE	%REC/SURR	87	28-138
ANALYST	INITIALS	BV	

Comments:

"QC Report"

Title: Water Reagent  
Batch: PAW130  
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

---

RS Date Analyzed: 26-JUL-96  
RSD Date Analyzed: 26-JUL-96

RS Date Extracted: 23-JUL-96  
RSD Date Extracted: 23-JUL-96

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
ACENAPHTHYLENE	10.0	<1	8.9	89	10.2	102	14	46	46-110
BENZO(k) FLUORANTHENE	10.0	<1	9.3	93	10.1	101	8	30	58-128
CHRYSENE	10.0	<1	9.4	94	9.9	99	5	29	62-129
PHENANTHRENE	10.0	<1	9.0	90	9.6	96	6	28	61-116
PYRENE	10.0	<1	8.8	88	9.2	92	4	26	62-120

Surrogates:  
2-CHLOROANTHRACENE 103 109 28-138

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT  
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.  
\* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.  
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Water Matrix  
 Batch: PAW130  
 Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
 Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Dry Weight %: N/A  
 Sample Spiked: 607441-1  
 MS Date Analyzed: 26-JUL-96  
 MSD Date Analyzed: 27-JUL-96  
 MS Date Extracted: 23-JUL-96  
 MSD Date Extracted: 23-JUL-96

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
ACENAPHTHYLENE	10.0	2	8.6	66	8.7	67	2	42	14-135
BENZO(k) FLUORANTHENE	10.0	<1	8.4	84	9.2	92	9	58	25-142
CHRYSENE	10.0	<1	8.5	85	9.1	91	7	51	3-176
PHENANTHRENE	10.0	<1	8.4	84	8.8	88	5	55	27-146
PYRENE	10.0	<1	8.4	84	9.6	96	13	47	15-157

Surrogates:  
 2-CHLOROANTHRACENE 100 108 28-138

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT  
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 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

*American Environmental Network, Inc.*

Common notation for Organic reporting

N/S = NOT SUBMITTED  
N/A = NOT APPLICABLE  
D = DILUTED OUT  
UG = MICROGRAMS  
UG/L = PARTS PER BILLION.  
UG/KG = PARTS PER BILLION.  
MG/M3 = MILLIGRAM PER CUBIC METER.  
PPMV = PART PER MILLION BY VOLUME.  
MG/KG = PARTS PER MILLION.  
MG/L = PARTS PER MILLION.  
< = LESS THAN DETECTION LIMIT.  
\* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

ATI/GC/FID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

ATI/GC/FIX

ATI GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

ATI/GC/FPD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

ATI/GC/PID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

ATI/GC/TCD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW = STEVE WILHITE  
PL = PAUL LESCHENSKY  
RW = ROBERT WOLFE  
BV = BEN VAUGHN  
BC = BETH COLEMAN  
KS = KENDALL SMITH  
KK = KERRY KUST  
DWB = DAVID W. BOWERS  
RP = ROB PEREZ  
JBT = JENNIFER TORRANCE

**CHAIN OF CUSTODY**

DATE: 7/18/96 PAGE: 1 OF 1

SEALED BEAS ARE FOR LAB USE ONLY

PROJECT MANAGER: Bill Olson  
 COMPANY: N.M. Oil Conservation Div.  
 ADDRESS: 2040 S. Pacheco  
 Santa Fe, NM 87505  
 PHONE: (505) 827-7154  
 FAX: (505) 827-8177  
 BILL TO: Same  
 COMPANY:  
 ADDRESS:

LAB ID	DATE	TIME	MATRIX	LAB ID	ANALYSIS REQUEST
9607181145 (North Seep)	7/18/96	1145	water	61	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct/Inject  (M8015) Gas/Purge & Trap Gasoline/BTEX & MTBE (M8015/8020) BTXE/MTBE (8020) 3 BTEX & Chlorinated Aromatics (602/8020) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010)  504 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/> 2 Polynuclear Aromatics (610/8310) Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS  Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270)  General Chemistry:  Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals:
Trip Blank	7/19/96	1630	water	07	1

PROJECT INFORMATION  
 PROJ. NO.:  
 PROJ. NAME: Sand Lake Lake  
 P.O. NO.:  
 SHIPPED VIA:

RELINQUISHED BY: [Signature] Time: 7/18/96  
 Printed Name: William Olson Date: 7/18/96  
 Company:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS  
 (RUSH)  24hr  48hr  72hr  1 WEEK (NORMAL)   
 CERTIFICATION REQUIRED:  NM  SDWA  OTHER  
 METHANOL PRESERVATION

RELINQUISHED BY: [Signature] Time:  
 Printed Name:  
 Company:

COMMENTS: FIXED FEE   
 Hand Delivered  
 Direct from Field

RECEIVED ON (LAB):  
 Signature: [Signature] Time:  
 Printed Name: Date:  
 Company:

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Bill Olson

COMPANY: N.M. Oil Conservation Div.  
 ADDRESS: 2040 S. Pacheco  
 San Rafe NM 87505  
 PHONE: (505) 827-7154  
 FAX: (505) 827-8177  
 BILL TO: Same  
 COMPANY:  
 ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	ANALYSIS REQUEST
9607181145 (North Seep)	7/18/96	1145	water	-01	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct/Inject  (M8015) Gas/Purge & Trap Gasoline/BTEX & MTBE (M8015/8020) BTXE/MTBE (8020) 3 BTEX & Chlorinated Aromatics (602/8020) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010) 504 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/> 2 Polynuclear Aromatics (610/8310) Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS  Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270)  General Chemistry:  Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals:
Trip Blank	7/14/96	1630	water	-02	1

**PROJECT INFORMATION**

PROJ NO.:  
 PROJ NAME: Lake Lake  
 P.O. NO.:  
 SHIPPED VIA:  
 SAMPLE RECEIPT  
 NO. CONTAINERS: 6  
 CUSTODY SEALS: Y/N/NA  
 RECEIVED INTACT: Y  
 OFFICE: o/c

**PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS**  
 (RUSH)  24hr  48hr  72hr  1 WEEK (NORMAL)   
 CERTIFICATION REQUIRED:  NM  SDWA  OTHER  
 METHANOL PRESERVATION

COMMENTS: FIXED FEE   
 Hand Delivered  
 Direct from field

**RELINQUISHED BY: 1.**  
 Signature: [Signature]  
 Printed Name: William Olson  
 Date: 7/18/96  
 Time: 1745 hr  
 Company:

**RECEIVED BY: 1.**  
 Signature: [Signature]  
 Printed Name:  
 Date:  
 Time:  
 Company:

**RELINQUISHED BY: 2.**  
 Signature:  
 Printed Name:  
 Date:  
 Time:  
 Company:

**RECEIVED BY: (LAB) 2.**  
 Signature: [Signature]  
 Printed Name: [Signature]  
 Date: 7/18/96  
 Time:  
 Company: American Environmental Network (NM), Inc.



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

August 16, 1996

Mr. Robert H. Fehlmann  
Environmental Coordinator  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: SEEP WATER QUALITY  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

Enclosed you will find copies of the New Mexico Oil Conservation Division (OCD) water quality analytical results from samples of the seep area downgradient of Tipperary Corporation's (TC) former Lane Salt Lake Disposal Facility.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson  
Hydrogeologist  
Environmental Bureau

xc w/enclosures: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Linda Freedman, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.

# *American Environmental Network, Inc.*

AEN I.D. 607339

August 1, 1996

New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

**RECEIVED**

AUG 07 1996

Environmental Bureau  
Oil Conservation Division

Project Name       LANE LAKE  
Project Number     (none)

Attention: Bill Olson

On 7/18/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8310 analyses were performed by American Environmental Network (FL) Inc., 11 East Olive Road, Pensacola, FL.

All other analyses were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.



Kimberly D. McNeill  
Project Manager



H. Mitchell Rubenstein, Ph. D.  
Laboratory Manager

MR: mt

Enclosure

*American Environmental Network, Inc.*

CLIENT	: N.M. OIL CONSERVATION DIVISION	AEN I.D.	: 607339
PROJECT #	: (none)	DATE RECEIVED	: 7/18/96
PROJECT NAME	: LANE LAKE	REPORT DATE	: 8/1/96
<hr/>		<hr/>	
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
<hr/>		<hr/>	
01	9607181145	AQUEOUS	7/18/96
02	TRIP BLANK	AQUEOUS	7/16/96

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)  
CLIENT : N.M. OIL CONSERVATION DIVISION AEN I.D.: 607339  
PROJECT # : (none)  
PROJECT NAME : LANE LAKE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	9607181145	AQUEOUS	7/18/96	NA	7/19/96	1
02	TRIP BLANK	AQUEOUS	7/16/96	NA	7/19/96	1

PARAMETER	DET. LIMIT	UNITS	01	02
BENZENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5

SURROGATE:  
BROMOFLUOROBENZENE (%) 109 102  
SURROGATE LIMITS (80 - 120) (80 - 120)

CHEMIST NOTES:

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST : BTEX, MTBE (EPA 8020) AEN I.D. : 607339  
BLANK I. D. : 071996  
CLIENT : NMOCD DATE ANALYZED : 7/19/96  
PROJECT # : (none) SAMPLE MATRIX : AQUEOUS  
PROJECT NAME : LANE LAKE

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<0.5

SURROGATE:  
BROMOFLUOROBENZENE (%) 106  
( 80 - 120 )

CHEMIST NOTES:

GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST : BTEX, MTBE (EPA 8020)  
 MSMSD # : 607339-01 AEN I.D. : 607339  
 CLIENT : N.M. OIL CONSERVATION DIVISION  
 PROJECT # : (none) DATE ANALYZED : 7/19/96  
 PROJECT NAME : LANE LAKE SAMPLE MATRIX : AQUEOUS  
 UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	10.3	103	9.9	99	4	(80 - 120)	20
TOLUENE	<0.5	10.0	10.0	100	9.8	98	2	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	10.0	100	9.7	97	3	(80 - 120)	20
TOTAL XYLENES	<0.5	30.0	30.8	103	29.6	99	4	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	25.6	128	25.8	129	1	(70 - 133)	20

CHEMIST NOTES:

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

"FINAL REPORT FORMAT - SINGLE"

Accession: 607441  
 Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO  
 Project Number: 607339  
 Project Name: NMOC  
 Project Location: LANE LAKE  
 Test: POLYNUCLEAR AROMATICS BY 8310  
 Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
 Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
 Matrix: WATER  
 QC Level: II

Lab Id: 001 Sample Date/Time: 18-JUL-96 1145  
 Client Sample Id: 607339-01 Received Date: 20-JUL-96  
 Batch: PAW130 Extraction Date: 23-JUL-96  
 Blank: A Dry Weight %: N/A Analysis Date: 27-JUL-96

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	4	1	
ACENAPHTHYLENE	UG/L	2	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	1	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	2	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	8	1	
2-METHYLNAPHTHALENE	UG/L	3	1	
2-CHLOROANTHRACENE	%REC/SURR	117	28-138	
ANALYST	INITIALS	BV		

Comments:

"Method Report Summary"

Accession Number: 607441  
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO  
Project Number: 607339  
Project Name: NMOCD  
Project Location: LANE LAKE  
Test: POLYNUCLEAR AROMATICS BY 8310

---

Client Sample Id:	Parameter:	Unit:	Result:
607339-01	ACENAPHTHENE	UG/L	4
	ACENAPHTHYLENE	UG/L	2
	FLUORANTHENE	UG/L	1
	NAPHTHALENE	UG/L	2
	1-METHYLNAPHTHALENE	UG/L	8
	2-METHYLNAPHTHALENE	UG/L	3

American Environmental Network, Inc.

"QC Report"

Title: Water Blank  
Batch: PAW130  
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

---

Blank Id: A Date Analyzed: 27-JUL-96 Date Extracted: 23-JUL-96

Parameters:	Units:	Results:	Reporting Limits:
ACENAPHTHENE	UG/L	ND	1
ACENAPHTHYLENE	UG/L	ND	1
ANTHRACENE	UG/L	ND	1
BENZO (a) ANTHRACENE	UG/L	ND	1
BENZO (a) PYRENE	UG/L	ND	1
BENZO (b) FLUORANTHENE	UG/L	ND	1
BENZO (g, h, i) PERYLENE	UG/L	ND	1
BENZO (k) FLUORANTHENE	UG/L	ND	1
CHRYSENE	UG/L	ND	1
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1
FLUORANTHENE	UG/L	ND	1
FLUORENE	UG/L	ND	1
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1
NAPHTHALENE	UG/L	ND	1
PHENANTHRENE	UG/L	ND	1
PYRENE	UG/L	ND	1
1-METHYLNAPHTHALENE	UG/L	ND	1
2-METHYLNAPHTHALENE	UG/L	ND	1
2-CHLOROANTHRACENE	%REC/SURR	87	28-138
ANALYST	INITIALS	BV	

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Reagent  
Batch: PAW130  
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

---

RS Date Analyzed: 26-JUL-96  
RSD Date Analyzed: 26-JUL-96

RS Date Extracted: 23-JUL-96  
RSD Date Extracted: 23-JUL-96

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	Rec Lmts	Rec Lmts
ACENAPHTHYLENE	10.0	<1	8.9	89	10.2	102	14	46	46-110
BENZO(k) FLUORANTHENE	10.0	<1	9.3	93	10.1	101	8	30	58-128
CHRYSENE	10.0	<1	9.4	94	9.9	99	5	29	62-129
PHENANTHRENE	10.0	<1	9.0	90	9.6	96	6	28	61-116
PYRENE	10.0	<1	8.8	88	9.2	92	4	26	62-120
Surrogates:									
2-CHLOROANTHRACENE				103		109			28-138

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT  
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.  
\* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.  
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

American Environmental Network, Inc.

"QC Report"

Title: Water Matrix  
 Batch: PAW130  
 Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.  
 Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Dry Weight %: N/A  
 Sample Spiked: 607441-1

MS Date Analyzed: 26-JUL-96  
 MSD Date Analyzed: 27-JUL-96

MS Date Extracted: 23-JUL-96  
 MSD Date Extracted: 23-JUL-96

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
ACENAPHTHYLENE	10.0	2	8.6	66	8.7	67	2	42	14-135
BENZO (k) FLUORANTHENE	10.0	<1	8.4	84	9.2	92	9	58	25-142
CHRYSENE	10.0	<1	8.5	85	9.1	91	7	51	3-176
PHENANTHRENE	10.0	<1	8.4	84	8.8	88	5	55	27-146
PYRENE	10.0	<1	8.4	84	9.6	96	13	47	15-157
<b>Surrogates:</b>									
2-CHLOROANTHRACENE				100		108			28-138

Comments:

Notes:

N/S = NOT SUBMITTED    N/A = NOT APPLICABLE    D = DILUTED OUT  
 UG/L = PARTS PER BILLION.    < = LESS THAN REPORTING LIMIT.  
 \* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.  
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

*American Environmental Network, Inc.*

Common notation for Organic reporting

N/S = NOT SUBMITTED  
N/A = NOT APPLICABLE  
D = DILUTED OUT  
UG = MICROGRAMS  
UG/L = PARTS PER BILLION.  
UG/KG = PARTS PER BILLION.  
MG/M3 = MILLIGRAM PER CUBIC METER.  
PPMV = PART PER MILLION BY VOLUME.  
MG/KG = PARTS PER MILLION.  
MG/L = PARTS PER MILLION.  
< = LESS THAN DETECTION LIMIT.  
\* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

ATI/GC/FID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

ATI/GC/FIX

ATI GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

ATI/GC/FPD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

ATI/GC/PID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

ATI/GC/TCD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW = STEVE WILHITE  
PL = PAUL LESCHENSKY  
RW = ROBERT WOLFE  
BV = BEN VAUGHN  
BC = BETH COLEMAN  
KS = KENDALL SMITH  
KK = KERRY KUST  
DWB = DAVID W. BOWERS  
RP = ROB PEREZ  
JBT = JENNIFER TORRANCE



SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

**PROJECT MANAGER:** Bill Olson  
**COMPANY:** N.M. Oil Conservation Div.  
**ADDRESS:** 2040 S. Pickett  
 Santa Fe, NM 87505  
**PHONE:** (505) 827-7154  
**FAX:** (505) 827-8177  
**BILL TO:** Same  
**COMPANY ADDRESS:**

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	ANALYSIS REQUEST
9607181145 (North Seep)	7/18/96	1145	water	-01	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct/Inject
Tip Blank	7/14/96	1630	water	-02	(M8015) Gas/Purge & Trap Gasoline/BTEX & MTBE (M8015/8020) BTXE/MTBE (8020) 3 BTEX & Chlorinated Aromatics (602/8020) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010) 504 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/> Polynuclear Aromatics (610/8310) 2 Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270) General Chemistry:
					Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals:
					<b>NUMBER OF CONTAINERS</b>

**PROJECT INFORMATION**

PROJ. NO.:  
 PROJ. NAME: North Seep Lake  
 P.O. NO.:  
 SHIPPED VIA:  
**SAMPLE RECEIPT**  
 NO. CONTAINERS: 6  
 CUSTODY SEALS: V/N (NM)  
 RECEIVED INTACT: Y  
 BLUE TAG/ICE: 0/C

**PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS**

(RUSH)  24hr  48hr  72hr  1 WEEK (NORMAL)  X  
 CERTIFICATION REQUIRED:  NM  SDWA  OTHER  
 METHANOL PRESERVATION

COMMENTS: Hand Delivered Direct from Field  
 FIXED FEE

**RELINQUISHED BY: 1.**  
 Signature: Bill Olson Time: 7/18/96  
 Printed Name: William Olson Date: 7/18/96  
 Company: American Environmental Network (NM), Inc.

**RELINQUISHED BY: 2.**  
 Signature: [Signature] Time: 7/18/96  
 Printed Name: [Name] Date: 7/18/96  
 Company: American Environmental Network (NM), Inc.

**RECEIVED BY:** 1. Signature: [Signature] Time: 7/18/96  
 Printed Name: [Name] Date: 7/18/96  
 Company: American Environmental Network (NM), Inc.

**RECEIVED BY: (LAB)** 2. Signature: [Signature] Time: 7/18/96  
 Printed Name: [Name] Date: 7/18/96  
 Company: American Environmental Network (NM), Inc.



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

July 2, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-269-269-166**

Mr. Robert H. Fehlmann  
Environmental Coordinator  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: CLOSURE REPORT AND POST CLOSURE MONITORING PLAN  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

The New Mexico Oil Conservation Division (OCD) has completed a review of Tipperary Corporation's (TC) January 9, 1996 "FINAL REMEDIATION REPORT, SALT WATER SKIMMER PITS, LANE SALT LAKE WATER DISPOSAL FACILITY OWNED BY BURRO PIPELINE CORPORATION, LEA COUNTY, NEW MEXICO" and May 1, 1996 "REPLY TO CLOSURE REPORT QUESTIONS IN YOUR APRIL 12, 1996 LETTER, LANE SALT LAKE DISPOSAL FACILITY, BURRO PIPELINE CORPORATION". These documents contain the results of TC's closure actions at Burro Pipeline Corporation's Lane Salt Lake Disposal Facility and a post closure monitoring plan for the facility.

The remedial activities as contained in the above referenced documents are satisfactory and the post closure monitoring plan is approved with the following conditions:

1. TC will obtain 2 ground water/seep samples from the playa at locations directly downgradient of the former facility. The samples will be obtained and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAH) using appropriate EPA methods.
2. All soil samples will be obtained and analyzed using appropriate EPA methods.
3. TC will submit a report on the post closure monitoring to the OCD by September 1, 1996. The report will include a description of the actions performed, the results of all sampling activities and recommendations for closure.

Mr. Robert H. Fehlmann

July 2, 1996

Page 2

4. TC will notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.
5. All original documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not relieve TC of liability should the monitoring activities determine that contamination exists which is beyond the scope of the work plan. In addition, OCD approval does not relieve TC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrogeologist  
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Linda Freedman, NM State Land Office  
Mike Griffin, Whole Earth Environmental, Inc.

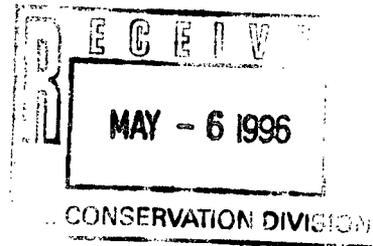


# Tipperary

CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

May 1, 1996



Mr. William C. Olson  
Hydrogeologist - Environmental Bureau  
New Mexico Energy and Natural Resources Dept.,  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

RE: REPLY TO CLOSURE REPORT QUESTIONS  
IN YOUR APRIL 12, 1996 LETTER,  
LANE SALT LAKE DISPOSAL FACILITY  
BURROW PIPELINE CORPORATION

Dear Mr. Olson:

Thank you for your April 12, 1996 letter concerning Tipperary's Lane Salt Lake, Salt Water Disposal Facility, Closure Report. I can see how parts of it might be unclear. Each point of your letter is addressed below, (The numbers coincide with the numbers on the questions in your original letter):

1. The trash, consisting of metal, netting and net supports, etc. was not hauled to Gandy Corporation. It was hauled by Gandy Corporation to Controlled Recovery, Inc. (CRI) in Hobbs, New Mexico. Copies of the manifests showing these loads are enclosed. Manifests do show that one load of junk pipe was taken to the Gandy Plant.
2. Part of the fluids pulled from the pits was disposed of into Burrow Pipeline's Satellite #1 where it subsequently was injected down Burro's SWD well. The rest of the fluids were taken either to H & M Disposal or to CRI. Copies of the manifest/shipping tickets are enclosed.
3. An addendum to the closure report is included. It shows the location and depth at which each sample was taken during the remediation process. We should have included these in the original report.
4. The colored overlays in the original closure report illustrate how much contamination was present and where it was located before excavation and remediation. No map of pollutant concentrations after excavation was made because all the contaminated material was excavated

and remediated prior to re-deposition into the pits. Table TPH's shown are for already remediated materials, hence their lower readings.

5. All the final spread zone samples were taken within 1 foot of the surface. Remediation of the soil was done by spreading out and mixing about 40 cu. yd. soil batches at a time. These batches were composite sampled and tested before redeposit. Pollutant concentrations in all replaced soils tested below the closure standard limits.
6. A post closure monitoring plan (QP 23 - two pages) is enclosed. Rather than sampling to a depth of one foot, as Whole Earth Environmental proposes in paragraph 3.2.1, we intend to randomly sample from 1 ft. to 5 ft. Depths. This will ensure that samples will be of remediated soils below the thin layer of top soil which was spread over the area prior to refencing.

Tipperary intends to collect and test the monitoring samples fall of 1996. We will forward a copy of the lab analyses to you as soon as we receive them.

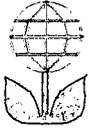
I hope this satisfactorily answers your questions. Please let me know whether or not the proposed post closure monitoring plan (QP 23) meets your requirements. Contact me if you need more information or have more questions.

Sincerely,



Robert H. Fehlmann  
Environmental Coordinator

- Encl.: 1. Trash manifests  
2. Fluid manifests  
3. Monitoring Plan (QP 23)  
4. Closure Plan Addendum



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**WHOLE EARTH ENVIRONMENTAL  
QUALITY PROCEDURE**

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**Sampling and Testing Protocol  
Tipperary Lane Salt Lake  
Monitoring Plan**

---

Completed By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Effective Date:    /    /

---

### **1.0 Purpose**

This procedure is to be used to measure the concentrations of contaminants remaining at the site of a series of brine discharge pits which have been previously closed in accordance with New Mexico Oil Conservation Division Guidelines. The purpose is to insure that no contaminate concentrations exceeding New Mexico guidelines remain at the facility. Secondarily, this procedure is to be used for the sample collection and testing of ground water samples to be obtained from the northern extremity of the facility.

### **2.0 Scope**

This procedure is to be used exclusively for investigation of the Tipperary Corporation's Lane Salt Lake Disposal Facility.

### **3.0 Procedure**

#### **3.1 Preliminary**

The Sr. Tech. shall first walk completely around the site to look for the presence of free hydrocarbons such as oil or paraffins which may have seeped from below ground. If any such seeps are found, their location shall be noted and further remediation planned.

The Sr. Tech. Shall then walk to the salt flat located between the remediation site and Lane Salt Lake looking for the presence of sheen on the water. If any such sheen is discovered, a water sample shall be obtained and sent to Environmental Labs of Texas for analysis of BTEX & TPH.

### 3.2 Sample Collection and Preparation

3.2.1 A minimum of 14 soil samples shall be collected from the facility at a depth of 12" below ground level. The sample collection points shall be at or near the location of the previous samples reported in Lane Salt Lake Water Disposal Pits Pit Closure Project dated December 29, 1995 in the section titled "Restoration".

3.2.2 The soil samples shall be collected and inserted within approved sample collection vials or bags marked with the sample number and depth of collection.

3.2.3 A minimum of two soil samples shall be submitted directly to Environmental Labs of Texas for verification of BTEX & TPH field analysis measurements.

3.2.4 The soil samples will be prepared in accordance with WEQP-06 and WEQP-19.

### 3.3 Sampling Procedure

WEQP-06 & WEQP-19 shall be used to measure the concentrations of aliphatic hydrocarbons, benzene, toluene, ethylbenzene and xylene within the soil.

### 4.0 Reporting

4.1 The Sr. Tech shall prepare a schematic of the location to include gross dimensions of the site and the specific locations of each test point. This schematic and all field test results will be entered into the field project file and submitted immediately by fax to Tipperary Corporation and to Whole Earth headquarters for final processing.

4.2 Whole Earth will prepare a final monitoring report for Tipperary which shall include the following minimum data:

- A. Schematic of the facility to include the location of all test points.
- B. Results of each field test.
- C. Results of Environmental Labs of Texas tests.
- D. Summary request for final closure status or recommendations for further remediation.



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E. Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

**ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures**

**ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19**

**SAMPLE PREPARATION: Solvent Extraction / Volatilization**

	Sample # 1 Tank Area N. Wall @ 6'	Sample # 2 Tank Area S. Wall @ 6'	Sample # 3 Tank Area E. Wall @ 6'	Sample # 4 Tank Area W. Wall @ 8'	Sample # 5 Tank Area Bottom @ 6'
<b>TPH</b>	1,050	205	276	780	713
<b>Benzene</b>	N / D	3	N / D	2	N / D
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

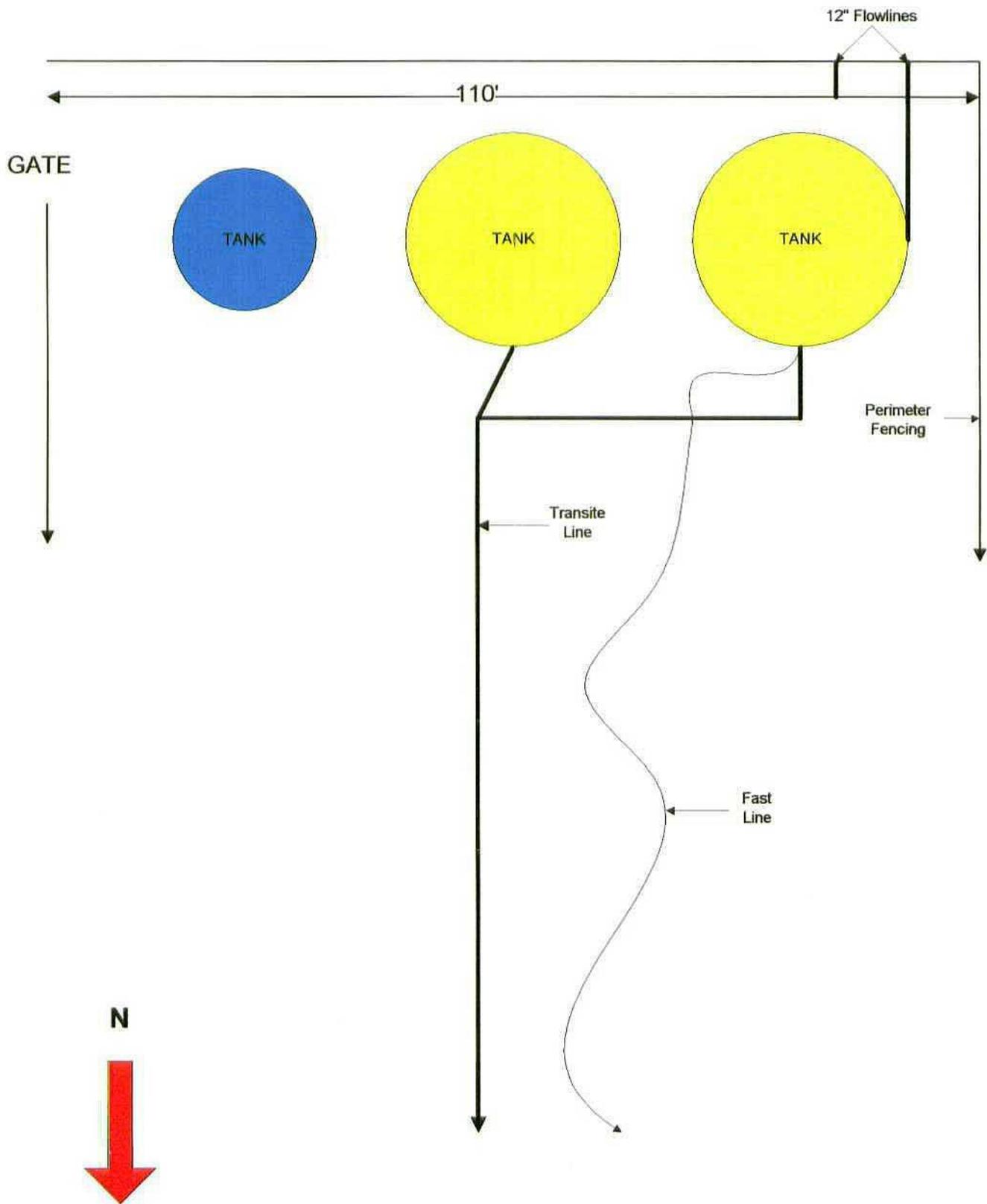
SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 6 Tank Area Bottom @ 6'	Sample # 7 Tank Area Bottom @ 12'	Sample # 8 Tank Area Bottom @ 12'		
TPH	116	54	2,170		
Benzene	N / D	N / D	N / D		
Toluene	N / D	N / D	N / D		
Ethyl-Benzene	N / D	N / D	N / D		
Xylene	N / D	N / D	N / D		

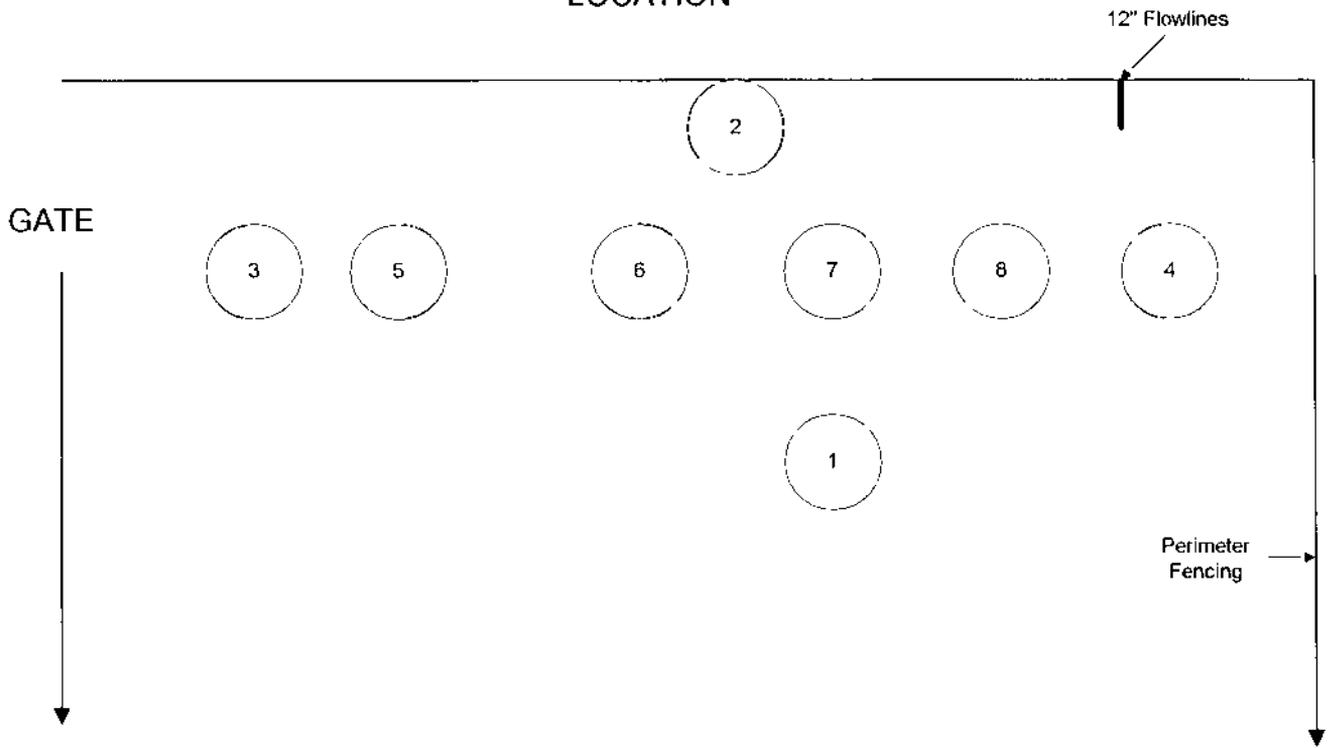
Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).

# BATTERY AREA DETAIL



BATTERY AREA DETAIL  
SAMPLE POINT  
LOCATION





## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E. Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

**ANALYSIS:** TPH / VOC Confirmation Testing for New Mexico Pit Closures

**ANALYTICAL METHOD:** Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

**SAMPLE PREPARATION:** Solvent Extraction / Volatilization

	Sample # 1 Pit # 1 W.Wall @ 6'	Sample # 2 Pit # 1 W.Wall @ 8'	Sample # 3 Pit # 1 W.Wall @ 4'	Sample # 4 Pit # 1 W.Wall @ 4'	Sample # 5 Pit # 1 E.Wall @ 12'
<b>TPH</b>	410	4,900	1,170	68	1,740
<b>Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 6 Pit # 1 E.Wall @ 8'	Sample # 7 Pit # 1 E.Wall @ 10'	Sample # 8 Pit # 1 E.Wall @ 10'	Sample # 9 Pit # 1 S.Wall @ 5'	Sample # 10 Pit # 1 S.Wall @ 8'
<b>TPH</b>	<b>4,600</b>	<b>2,350</b>	<b>4,210</b>	<b>391</b>	<b>4,750</b>
<b>Benzene</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>
<b>Toluene</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>3</b>
<b>Ethyl-Benzene</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>1</b>
<b>Xylene</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>N / D</b>	<b>1</b>

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 11 Pit # 1 Bottom @ 10'	Sample # 12 Pit # 1 Bottom @ 6'	Sample # 13 Pit # 1 Bottom @ 5'	Sample # 14 Pit # 1 Bottom @ 5'	Sample # 15 Pit # 1 Bottom @ 10'
TPH	160	107	263	391	23
Benzene	N / D	N / D	N / D	N / D	N / D
Toluene	N / D	N / D	N / D	N / D	N / D
Ethyl-Benzene	N / D	N / D	N / D	N / D	N / D
Xylene	N / D	N / D	N / D	N / D	N / D

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

SAMPLE PREPARATION: Solvent Extraction / Volatilization

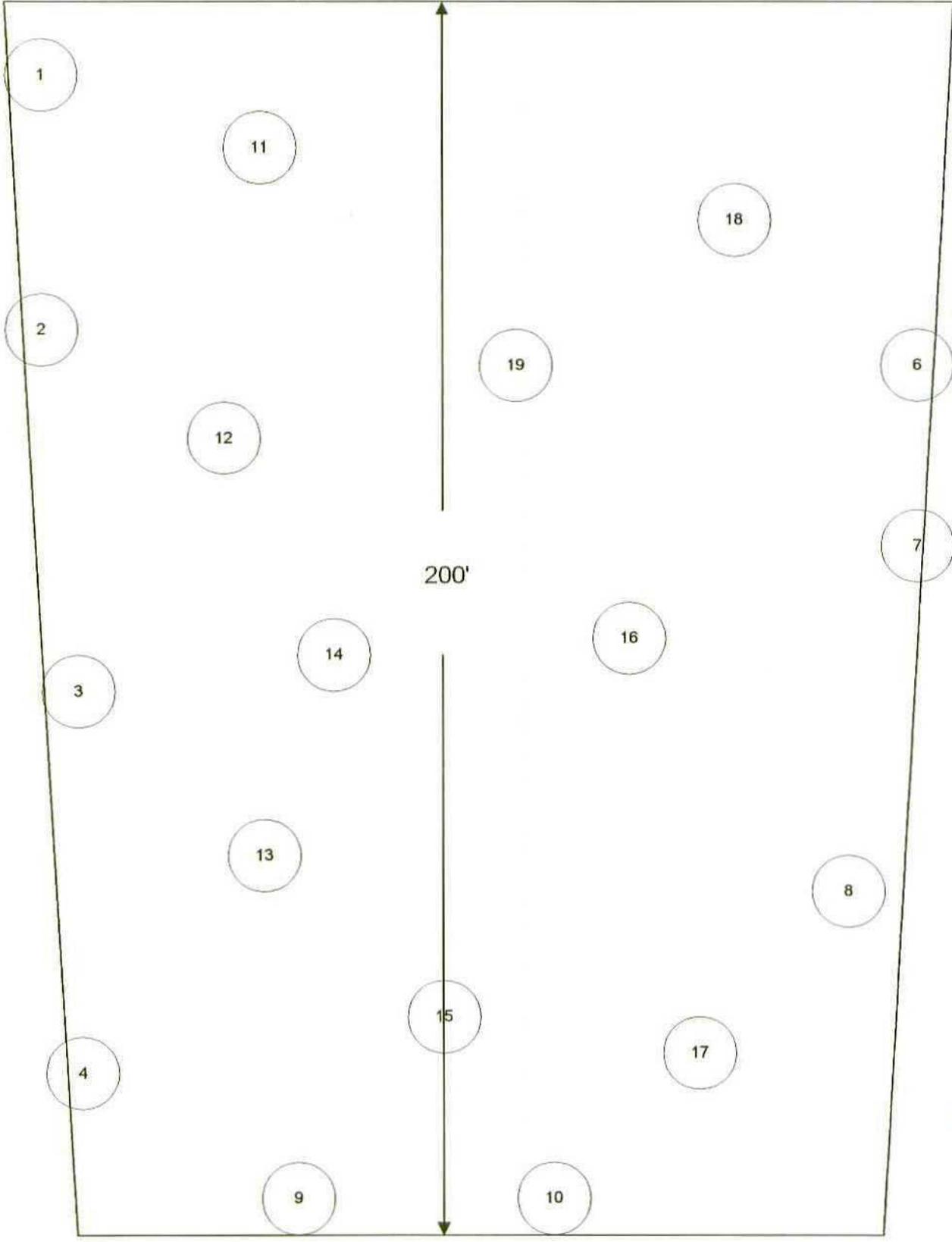
	Sample # 16 Pit # 1 Bottom @ 12'	Sample # 17 Pit # 1 Bottom @ 8'	Sample # 18 Pit # 1 Bottom @ 10'	Sample # 19 Pit # 1 Bottom @ 18'	
<b>TPH</b>	163	4,600	4,210	770	
<b>Benzene</b>	N / D	2	N / D	N / D	
<b>Toluene</b>	N / D	N / D	N / D	N / D	
<b>Ethyl-Benzene</b>	N / D	N / D	1	N / D	
<b>Xylene</b>	N / D	N / D	N / D	N / D	

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).

← 100' →

PIT # 1  
SAMPLING LOCATIONS





## ANALYTICAL REPORT FORM

Well Name:     N/A    

Date of Collection:     10 / 05 / 95    

Pit Type:     Brine Discharge    

Date of Analysis:     10 / 05 / 95    

Client:     Tipperary O & G    

Analyst:     E.Werner    

TPH Analyzer S/N:     01159    

VOC Analyzer S/N:                     

Chromatograph S/N     SA 920043    

ANALYSIS:     TPH / VOC Confirmation Testing for New Mexico Pit Closures    

ANALYTICAL METHOD:     Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19    

SAMPLE PREPARATION:     Solvent Extraction / Volatilization    

	Sample # 1 Pit # 2 W. Wall @ 6'	Sample # 2 Pit # 2 W.Wall @ 6'	Sample # 3 Pit # 2 W.Wall @ 8'	Sample # 4 Pit # 2 W.Wall @ 6'	Sample # 5 Pit # 2 E.Wall @ 7'
TPH	2,560	4,310	1,120	765	4,120
Benzene	N / D	4	N / D	N / D	2
Toluene	N / D	N / D	N / D	N / D	N / D
Ethyl-Benzene	N / D	N / D	N / D	N / D	N / D
Xylene	N / D	1	N / D	N / D	N / D

Temperature of sample:     72     °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 6 Pit # 2 E.Wall @ 6'	Sample # 7 Pit # 2 E.Wall @ 6'	Sample # 8 Pit # 2 E.Wall @ 5'	Sample # 9 Pit # 2 Bottom @ 12'	Sample # 10 Pit # 2 Bottom @ 12'
<b>TPH</b>	563	3,620	822	8	2,350
<b>Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name:     N/A    

Date of Collection:   10 / 05 / 95  

Pit Type:   Brine Discharge  

Date of Analysis:   10 / 05 / 95  

Client:   Tipperary O & G  

Analyst:   E.Werner  

TPH Analyzer S/N:   01159  

VOC Analyzer S/N:                     

Chromatograph S/N   SA 920043  

**ANALYSIS:**   TPH / VOC Confirmation Testing for New Mexico Pit Closures  

**ANALYTICAL METHOD:**   Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19  

**SAMPLE PREPARATION:**   Solvent Extraction / Volatilization  

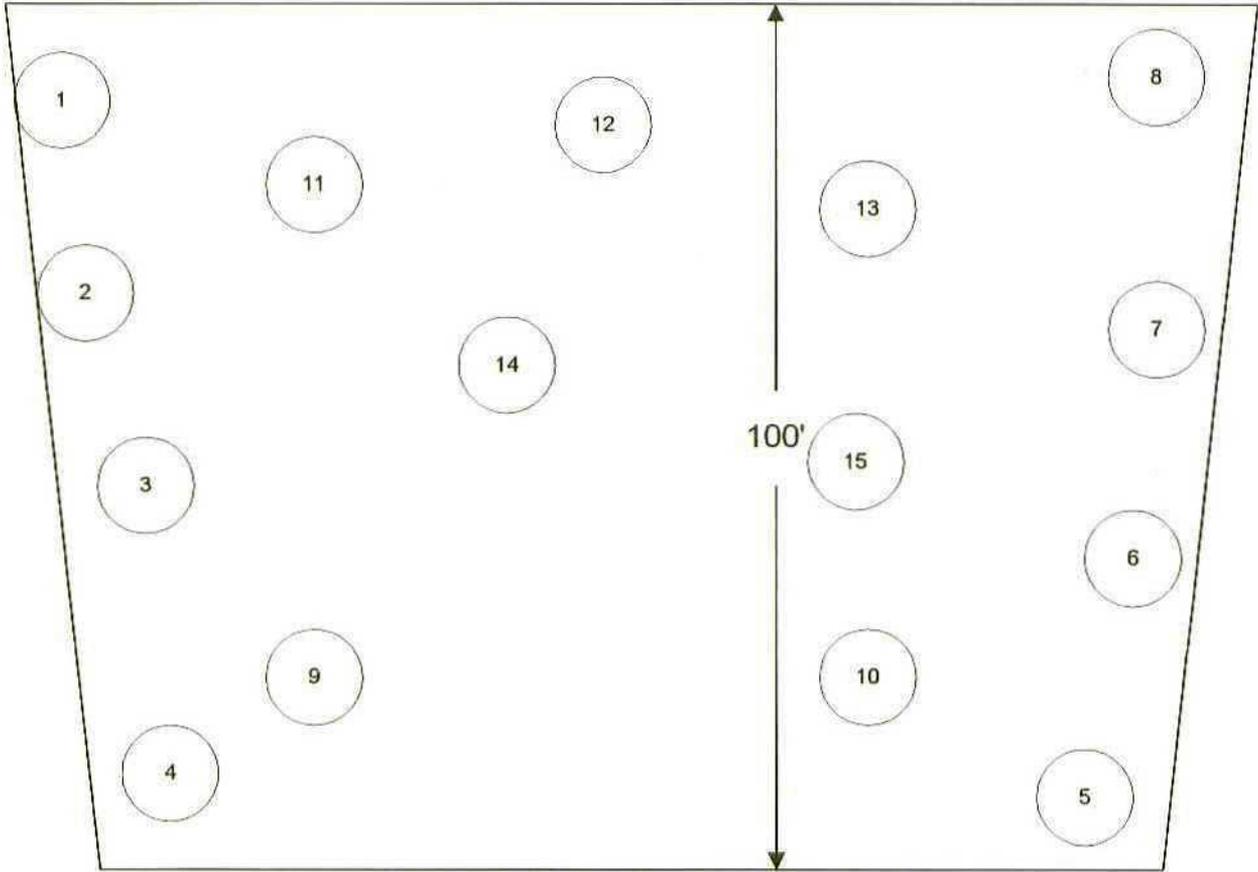
	Sample # 11 Pit # 2 Bottom @13'	Sample # 12 Pit # 2 Bottom @ 15'	Sample # 13 Pit # 2 Bottom @12'	Sample # 14 Pit # 2 Bottom @ 22'	Sample # 15 Pit # 2 Bottom @ 28'
<b>TPH</b>	1,230	3,470	654	970	654
<b>Benzene</b>	N / D	N / D	N / D	N / D	2
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample:   72   °F

Notes: 1. All results shown in mg/L (ppm).

← 150' →

### PIT # 2 SAMPLING LOCATIONS





## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 1 Pit # 3 E.Wall @ 4'	Sample # 2 Pit # 3 E.Wall @ 5'	Sample # 3 Pit # 3 E.Wall @ 5'	Sample # 4 Pit # 3 N.Wall @ 3'	Sample # 5 Pit # 3 N.Wall @ 3'
<b>TPH</b>	135	1,780	332	2,340	3,330
<b>Benzene</b>	N / D	N / D	N / D	N / D	3
<b>Toluene</b>	N / D	N / D	N / D	N / D	1
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	1
<b>Xylene</b>	N / D	N / D	N / D	N / D	N / D

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).



## ANALYTICAL REPORT FORM

Well Name:     N/A    

Date of Collection:   10 / 05 / 95  

Pit Type:   Brine Discharge  

Date of Analysis:   10 / 05 / 95  

Client:   Tipperary O & G  

Analyst:   E.Werner  

TPH Analyzer S/N:   01159  

VOC Analyzer S/N:                     

Chromatograph S/N   SA 920043  

ANALYSIS:   TPH / VOC Confirmation Testing for New Mexico Pit Closures  

ANALYTICAL METHOD:   Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19  

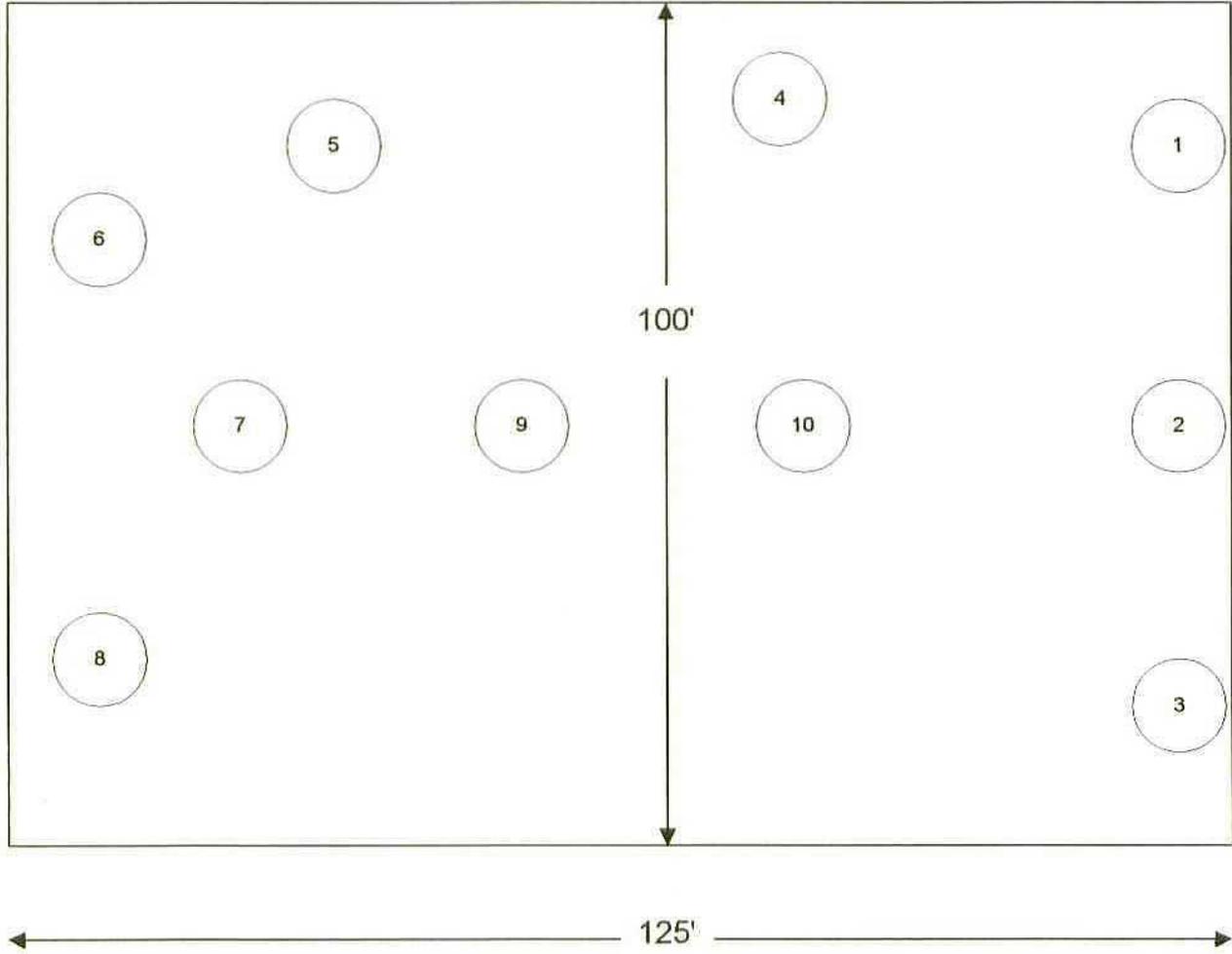
SAMPLE PREPARATION:   Solvent Extraction / Volatilization  

	Sample # 6 Pit # 3 W.Wall @ 4'	Sample # 7 Pit # 3 W.Wall @ 4'	Sample # 8 Pit # 3 W.Wall @ 3'	Sample # 9 Pit # 3 Bottom @ 12'	Sample # 10 Pit # 3 Bottom @ 12'
<b>TPH</b>	677	4,160	3,950	126	778
<b>Benzene</b>	N / D	5	5	N / D	N / D
<b>Toluene</b>	N / D	N / D	N / D	N / D	N / D
<b>Ethyl-Benzene</b>	N / D	N / D	N / D	N / D	N / D
<b>Xylene</b>	N / D	2	3	N / D	N / D

Temperature of sample:   72   °F

Notes: 1. All results shown in mg/L (ppm).

PIT # 3  
SAMPLING LOCATIONS





## ANALYTICAL REPORT FORM

Well Name: N/A

Date of Collection: 10 / 05 / 95

Pit Type: Brine Discharge

Date of Analysis: 10 / 05 / 95

Client: Tipperary O & G

Analyst: E.Werner

TPH Analyzer S/N: 01159

VOC Analyzer S/N: \_\_\_\_\_

Chromatograph S/N SA 920043

ANALYSIS: TPH / VOC Confirmation Testing for New Mexico Pit Closures

ANALYTICAL METHOD: Extraction by Means of EPA 418.1 (WEQP-06),  
Volatilization by means of WEQP-18 & Speciation by means of WEQP-19

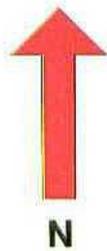
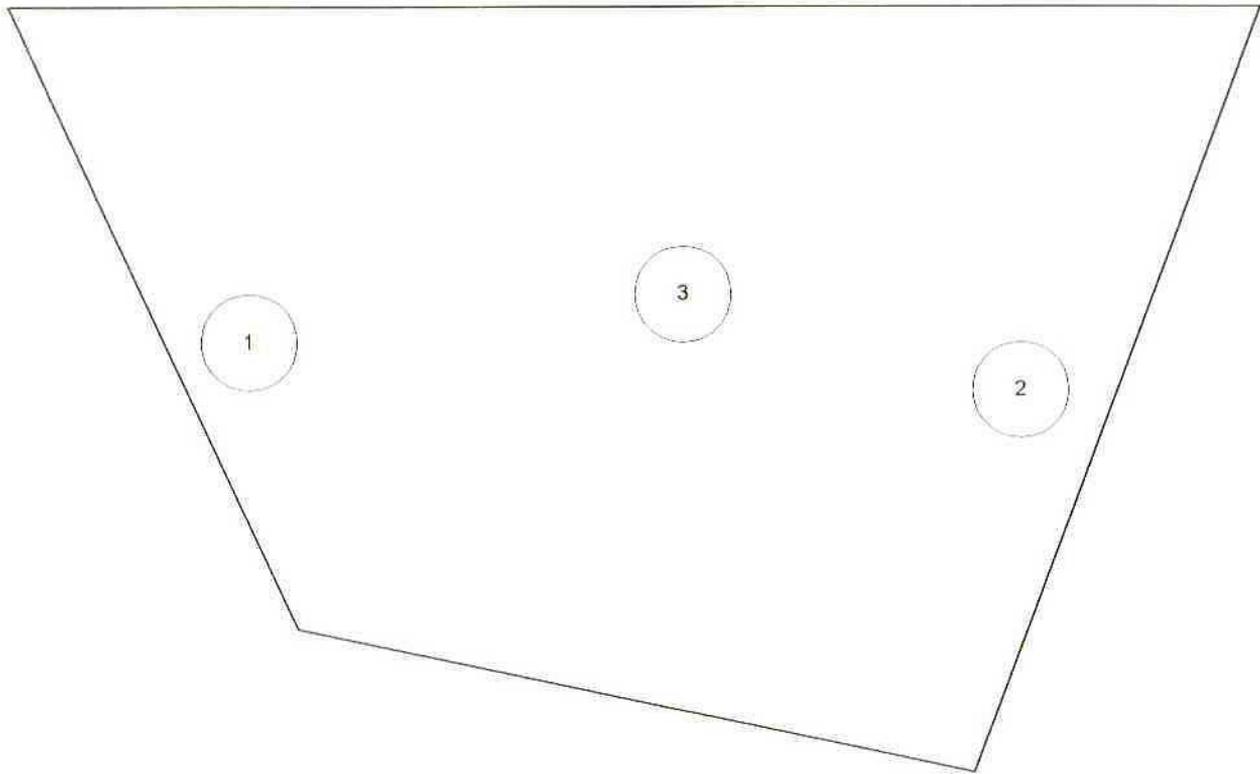
SAMPLE PREPARATION: Solvent Extraction / Volatilization

	Sample # 1 Pit # 4 W.Wall @ 15'	Sample # 2 Pit # 4 E.Wall @ 15'	Sample # 3 Pit # 4 Bottom @ 24'		
<b>TPH</b>	4,660	3,250	26		
<b>Benzene</b>	N / D	1	N / D		
<b>Toluene</b>	N / D	N / D	N / D		
<b>Ethyl-Benzene</b>	N / D	N / D	N / D		
<b>Xylene</b>	N / D	N / D	N / D		

Temperature of sample: 72 °F

Notes: 1. All results shown in mg/L (ppm).

PIT # 4  
SAMPLING LOCATIONS



P.O. Box 827  
398-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267  
Roustabout Crews -- Winch Trucks  
NMSCC #14225

Nº 87602

Date 11-17-95

## AUTHORIZATION FOR WORK

YOUR NO. 510

COMPANY Tipperary Oil & Gas LEASE LAME LAKE SWD

MAIL INVOICE TO \_\_\_\_\_ WELL \_\_\_\_\_

### DESCRIPTION OF WORK

Haul 12 yards to CRI

Equipment Used	<u>Dump Truck</u>	@ \$ <u>40.00</u>	Hrs. worked	<u>5 1/2</u>	Total	<u>220.00</u>
Equipment Used		@ \$ <u>15.00</u>	Hrs. worked	<u>12 YD.</u>	Total	<u>180.00</u>
Pusher	<u>Richard Stead</u>	@ \$ _____	Hrs. worked	<u>5 1/2</u>	Total	_____
Labor		@ \$ _____	Hrs. worked	_____	Total	_____
Roustabout		Hrs. worked	_____	Sub Total	<u>400.00</u>	
Roustabout		Hrs. worked	_____	Sales Tax	<u>23.75</u>	
Roustabout		Hrs. worked	_____	TOTAL	<u>423.75</u>	
Roustabout		Hrs. worked	_____			

Approved by \_\_\_\_\_

SUPERIOR-102

### CONTROLLED RECOVERY, INC.

87602

P.O. BOX 369 HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Tipperary Oil & Gas

LEASE NAME: LAME LAKE SWD

TRANSPORTER COMPANY: Gandy TIME: 2:15 AM/PM

DATE: 11-17-95 VEHICLE No.: 510 DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL

PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS

TANK BOTTOMS  CONTAMINATED SOIL  C-117 No. \_\_\_\_\_

OTHER MATERIAL

DESCRIPTION: \_\_\_\_\_

VOLUME OF MATERIAL:  BBLS.  YARD 12

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Richard Stead (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature] (SIGNATURE)

20698

White - CRI    Canary - CRI Accounting    Pink - CRI Accounting    Gold - Transporter

P.O. Box 827  
393-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267  
Roustabout Crews -- Winch Trucks  
NMSCC #14225

Nº 89633

Date 11-17-95

## AUTHORIZATION FOR WORK

COMPANY Tipperary

LEASE Burns - Lane - Lake YOUR NO. 506

MAIL INVOICE TO \_\_\_\_\_

WELL SWD

DESCRIPTION OF WORK Hauled pipe sent to C&I

Equipment Used	<u>Dump Truck</u>	@ \$ <u>40.00</u>	Hrs. worked	<u>12 1/2</u>	Total	<u>500.00</u>
Equipment Used		@ \$ <u>15.00</u>	Hrs. worked	<u>24 1/2</u>	Total	<u>360.00</u>
Pusher	<u>Estimote Jimmy</u>	@ \$ _____	Hrs. worked	<u>12 1/2</u>	Total	_____
Labor		@ \$ _____	Hrs. worked	_____	Total	_____
Roustabout		Hrs. worked	_____	Sub Total	<u>860.00</u>	
Roustabout		Hrs. worked	_____	Sales Tax	<u>51.06</u>	
Roustabout		Hrs. worked	_____	TOTAL	<u>911.06</u>	
Roustabout		Hrs. worked	_____	Approved by	_____	

SUPERIOR-102

89633

**CONTROLLED RECOVERY INC.**  
P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: 1-225-12414 0-6 + 441

LEASE NAME: GANDY

TRANSPORTER COMPANY: GANDY TIME: 5:30 AM/PM

DATE: 11-17-95 VEHICLE No.: \_\_\_\_\_ DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL  
 PRODUCTION WATER  
 DRILLING FLUIDS  
 TANK BOTTOMS  
 CONTAMINATED SOIL  
 OTHER MATERIAL  
 COMPLETION FLUIDS  
 C-117 No. \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

VOLUME OF MATERIAL:  BBLs \_\_\_\_\_  YARD 12

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Estimote Jimmy  
(SIGNATURE)

FACILITY REPRESENTATIVE: 20725  
(SIGNATURE)

White - CRI      Canary - CRI Accounting      Pink - CRI Accounting      Gold - Transporter

CONTROLLED RECOVERY INC.

89632

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: T. P. Gray Oil & Gas

LEASE NAME: Lone Lake SWD

TRANSPORTER COMPANY: Enviro TIME: 2:00 AM/PM

DATE: 11 17 95 VEHICLE No.: 507 DRIVER No.:

TYPE OF MATERIAL

PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-111 80632

OTHER MATERIAL: DESCRIPTION: Soil Contaminated

VOLUME OF MATERIAL  BBLs.  YARD 12

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

20808

White - CRI 3-25251      Canary - CRI Accounting      Pink - CRI Accounting      Gold - Transporter

CONTROLLED RECOVERY INC.

89633

P.O. BOX 369 • HOBBS, NEW MEXICO 88241

(505) 393-1079

LEASE OPERATOR/COMPANY:

Tipperary Oil & Gas

LEASE NAME:

Lone Lake SWD

TRANSPORTER COMPANY:

Garby

TIME:

1200

AM/PM

DATE:

11 17 95

VEHICLE No.:

500

DRIVER No.:

TYPE OF MATERIAL

PRODUCTION WATER

DRILLING FLUIDS

COMPLETION FLUIDS

TANK BOTTOMS

CONTAMINATED SOIL

OTHER MATERIAL: 89633

OTHER MATERIAL:

DESCRIPTION:

Soil Concrete & debris

VOLUME OF MATERIAL  BBLs

YARD 12

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

20805

White - CRI  
9-25251

Canary - CRI Accounting

Pink - CRI Accounting

Gold - Transporter

P.O. Box 827  
398-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267  
Roustabout Crews --- Winch Trucks  
NMSCC #14225

No 89632

Date 11-17-95

## AUTHORIZATION FOR WORK

YOUR NO. 507

COMPANY Jipperany LEASE Lone Lake Swd

MAIL INVOICE TO \_\_\_\_\_ WELL \_\_\_\_\_

DESCRIPTION OF WORK Hauled pipe + materials to CRI.

Equipment Used	<u>Dump truck</u>	@ \$ <u>40.00</u>	Hrs. worked	<u>12 1/2</u>	Total	<u>500.00</u>
Equipment Used		@ \$ <u>15.00</u>	Hrs. worked	<u>24.00</u>	Total	<u>360.00</u>
Pusher	<u>Farmy Solberg</u>	@ \$ _____	Hrs. worked	<u>12 1/2</u>	Total	_____
Labor		@ \$ _____	Hrs. worked	_____	Total	_____
Roustabout		Hrs. worked	_____	Sub Total	<u>860.00</u>	
Roustabout		Hrs. worked	_____	Sales Tax	<u>51.06</u>	
Roustabout		Hrs. worked	_____	TOTAL	<u>911.06</u>	
Roustabout		Hrs. worked	_____			

Approved by \_\_\_\_\_

SUPERIOR-102

89632

**CONTROLLED RECOVERY INC.**  
P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

---

LEASE OPERATOR/COMPANY: JIPPERANY OIL & GAS

LEASE NAME: LONE LAKE SWD

TRANSPORTER COMPANY: GANDY TIME: 5:00 AM/PM

DATE: 11-17-95 VEHICLE No.: \_\_\_\_\_ DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL

PRODUCTION WATER       DRILLING FLUIDS       COMPLETION FLUIDS

TANK BOTTOMS       CONTAMINATED SOIL       T.C. 117 No. \_\_\_\_\_

OTHER MATERIAL

DESCRIPTION: \_\_\_\_\_

---

VOLUME OF MATERIAL: [ ] BBLs \_\_\_\_\_ [X] YARD 12 [ ]

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Farmy Solberg  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

No 20724

White - CRI      Canary - CRI Accounting      Pink - CRI Accounting      Gold - Transporter

P.O. Box 827  
398-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267  
Roustabout Crews -- Winch Trucks  
NMSCC #14225

Nº 87853

Date 11-11-95

AUTHORIZATION FOR WORK

*Laredo Lake SWD* YOUR NO. 506

COMPANY Tipperary

LEASE BURROW PIPE LINE

MAIL INVOICE TO \_\_\_\_\_ WELL \_\_\_\_\_

DESCRIPTION OF WORK

*Hauled 1 load of JUNK pipe to Gandy Plant, from Location.*

Equipment Used	<u>DUMP TRUCK #506</u>	@ \$ <u>40.00</u>	Hrs. worked	<u>4 1/2</u>	Total	<u>180.00</u>
Equipment Used	_____	@ \$ _____	Hrs. worked	_____	Total	_____
Pusher	<u>Claudia Jamany</u>	@ \$ _____	Hrs. worked	<u>4 1/2</u>	Total	_____
Labor	_____	@ \$ _____	Hrs. worked	_____	Total	_____
Roustabout	_____	Hrs. worked	_____	Sub Total	<u>180.00</u>	
Roustabout	_____	Hrs. worked	_____	Sales Tax	<u>10.69</u>	
Roustabout	_____	Hrs. worked	_____	TOTAL	<u>190.69</u>	
Roustabout	_____	Hrs. worked	_____	Approved by	<i>[Signature]</i>	

P.O. Box 827  
393-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267  
Roustabout Crews -- Winch Trucks  
NMSCC #14225

Nº 89591

Date 11-11-95

## AUTHORIZATION FOR WORK

Lane Labor YOUR NO. 57

COMPANY TIPPEHART

LEASE PERRO 340

MAIL INVOICE TO \_\_\_\_\_ WELL \_\_\_\_\_

DESCRIPTION OF WORK TAKE OUT NETS & POSTS and hauler  
to trash dump

	<u>Trailer</u>	<u>11.50</u>	<u>8</u>	<u>92.00</u>
Equipment Used	<u>TRUCK TOOLS</u>	@ \$ <u>18.75</u>	Hrs. worked <u>8</u>	Total <u>151.60</u>
Equipment Used	<u>Disposal Fee</u>	@ \$ _____	Hrs. worked _____	Total <u>00.00</u>
Pusher	<u>Jose Mendez</u>	@ \$ <u>16.15</u>	Hrs. worked <u>8</u>	Total <u>129.20</u>
Labor		@ \$ <u>14.05</u>	Hrs. worked <u>24</u>	Total <u>337.20</u>
Roustabout	<u>Jose Mendez</u>	Hrs. worked <u>8</u>		Sub Total <u>810.00</u>
Roustabout	<u>Tomas Sanchez</u>	Hrs. worked <u>8</u>		Sales Tax <u>48.09</u>
Roustabout	<u>Fulgencio Olivas</u>	Hrs. worked <u>8</u>		TOTAL <u>858.09</u>
Roustabout		Hrs. worked _____		
	Approved by	<u>[Signature]</u>		

CONTROLLED RECOVERY INC.

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Tipperary Oil & Gas  
 LEASE NAME: Lane Lake SWD  
 TRANSPORTER COMPANY: Gandy TIME: 730 AM/PM (AM)  
 DATE: 11-27-95 VEHICLE No.: 504 DRIVER No.:

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  OTHER MATERIAL: SOIL & Debris  
 DESCRIPTION: SOIL & Debris

VOLUME OF MATERIAL  BBLs. 8 YARD 17

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

NO 20931

White - CRI 8-25251      Canary - CRI Accounting      Pink - CRI Accounting      Gold - Transporter

P.O. Box 827  
398-4960

**GANDY CORPORATION**

1109 E. Broadway

TATUM, NEW MEXICO 88267

Roustabout Crews — Winch Trucks

NMSCC #14225

No 89796

Date 11-27-95

AUTHORIZATION FOR WORK

YOUR NO. # 504

COMPANY TIPPERARY oil & Gas LEASE Lane Lake SWD

MAIL INVOICE TO \_\_\_\_\_ WELL \_\_\_\_\_

DESCRIPTION OF WORK Haul Cement disposal pipe, pitnetting and SWD Debris and soils.

8yds.

Equipment Used	<u>Bump Truck</u>	@ \$	<u>40.00</u>	Hrs. worked	<u>5</u>	Total	<u>200.00</u>
Equipment Used	<u>Disposal</u>	@ \$	<u>15.00</u>	Hrs. worked	<u>8yds</u>	Total	<u>120.00</u>
Pusher	<u>Martin Nuñez</u>	@ \$		Hrs. worked	<u>5</u>	Total	
Labor		@ \$		Hrs. worked		Total	
Roustabout		Hrs. worked				Sub Total	<u>320.00</u>
Roustabout		Hrs. worked				Sales Tax	<u>19.00</u>
Roustabout		Hrs. worked				TOTAL	<u>339.00</u>
Roustabout		Hrs. worked					

22671  
**CONTROLLED RECOVERY INC.**

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
 (505) 393-1079

LEASE OPERATOR/COMPANY: Burro Pipeline  
 LEASE NAME: Lone Lake SWD  
 TRANSPORTER COMPANY: I+W TIME: 410 445 AM/PM  
 DATE: 11-7-95 VEHICLE No.: 609 DRIVER No.:

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-117 No.  
 OTHER MATERIAL: Sulfide Solids  
 DESCRIPTION: Toilice After Hours  
 VOLUME OF MATERIAL:  BBLs 120  YARD

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
 (SIGNATURE)  
 FACILITY REPRESENTATIVE: [Signature]  
 (SIGNATURE)  
20709

White - CRI 8-25251    Canary - CRI Accounting    Pink - CRI Accounting    Gold - Transporter

2267  
 Loco Hills, (505) 677-2111  
 Day or Nite  
 Delivery Receipt



LOUNGTAL  
 CANDY  
 P.O. Box 98  
 Loco Hills, N.M. - 88255  
 No. 33003

Date 11-7-95 Truck No. 609 Capacity 140  
 Shipped From Burro Pipeline Lease Lone Lake SWD  
 Shipped To CRT Permit H18335 Well No. \_\_\_\_\_

DESCRIPTION	BARRELS	RATE	CHARGE	TAX	TOTAL
Disposal fluid	120	2.50	300.00		
1/4" TRK	8.5100	61.00	518.50		
Toilice		40.00	40.00		
			<u>858.50</u>	52.58	911.08

Remarks: pull load out of pit - consist of dirt, iron, T/S  
haul to CRT put in pit

Top Gauge \_\_\_\_\_ Bottom Gauge \_\_\_\_\_  
 Start 9:30 AM Finish 6:00 PM Total 8.5100 COMPANY Burro Pipeline  
 Driver 338 E. Sandoz  
 B-6990

P.O. Box 827  
398-4960

# GANDY CORPORATION

1109 E. Broadway

TATUM, NEW MEXICO 88267

Roustabout Crews --- Winch Trucks

NMSCC #14225

N<sup>o</sup> 89631

Date 11-17-95

## AUTHORIZATION FOR WORK

COMPANY Tipperary

YOUR NO. 508  
LEASE Lane Lake SWD

MAIL INVOICE TO \_\_\_\_\_

WELL \_\_\_\_\_

### DESCRIPTION OF WORK

Haul of 12 yds disposal pipe & netting  
to CRI

Equipment Used	<u>Dump Truck</u>	@ \$	<u>40.00</u>	Hrs. worked	<u>7 1/2</u>	Total	<u>300.00</u>
Equipment Used		@ \$	<u>15.00</u>	Hrs. worked	<u>12 1/2</u>	Total	<u>180.00</u>
Pusher	<u>Vernon DeToot</u>	@ \$		Hrs. worked	<u>7 1/2</u>	Total	
Labor		@ \$		Hrs. worked		Total	
Roustabout		Hrs. worked		Sub Total			<u>480.00</u>
Roustabout		Hrs. worked		Sales Tax			<u>28.50</u>
Roustabout		Hrs. worked		TOTAL			<u>508.50</u>
Roustabout		Hrs. worked		Approved by			

SUPERIOR-102

**CONTROLLED RECOVERY INC.** 89631  
P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY Tipperary Oil & Gas  
LEASE NAME: Lane Lake SWD  
TRANSPORTER COMPANY Gandy TIME: 1200 AM/PM 0  
DATE: 11-17-95 VEHICLE No.: 508 DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL

PRODUCTION WATER       DRILLING FLUIDS       COMPLETION FLUIDS  
 TANK BOTTOMS       CONTAMINATED SOIL       OTHER MATERIAL  
DESCRIPTION: Soil, Concrete & Debris 89631

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_  YARD 12  \_\_\_\_\_

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Vernon DeToot  
(SIGNATURE) \_\_\_\_\_  
FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE) \_\_\_\_\_

20804

White - CRI      Canary - CRI Accounting      Pink - CRI Accounting      Gold - Transporter

24-HOUR SERVICE, CALL  
 PHO. 398-4960  
 LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
 TANK CLEANING - OIL TREATING  
 ROUSTABOUTING  
 NMSCC #14225

1109 E. BROADWAY  
 BOX 827  
 TATUM, NEW MEXICO 88267

179686

Date 10-27-95 Truck No. 303  
 Company Jippany Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
 From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
 To Lease Lane Lake SW D Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water				
Crude Oil	Salt Water	Acid	Bbls. Hauled			
			<u>120</u>		<u>2.50</u>	<u>300.00</u>
Driver, Operator or Pusher	<u>Rafaelo Orrantia</u>			<u>10</u>	<u>56.00</u>	<u>560.00</u>
Helper						
Helper						
Helper						
Other Charges						
Description of Work:	<u>Pulled D.S. from pit and took to CR I for disposal.</u>					
					Sub Total	<u>860.00</u>
					Sales Tax	<u>51.06</u>
Authorized by: <u>[Signature]</u>					TOTAL	<u>911.06</u>

SUPERIOR-101

24 HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179829

Date 10-14-95 Truck No. 388  
Company TIPPERARY CORP Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane Lake s.w D pit Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water		260	.29	75.40
Crude Oil	Salt Water	Acid				
Bbls. Hauled <u>390</u>						
Driver, Operator or Pusher <u>Juan Sarabia</u>				7 1/2	52.00	390.00
Helper _____						
Helper _____						
Helper _____						
Other Charges _____						
Description of Work: <u>Haul 390 bbls water from pit, take 1 road to satellite #1, 2 to Jenkins SWD.</u>						
				Sub Total		465.40
				Sales Tax		27.63
Authorized by: <u>M. Gil</u>				TOTAL		493.03

SUPERIOR-101

24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

185166

Date 10-14-95 Truck No. 319  
Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From Lane Lake SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease H&M S.W.D. Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
9:00	<u>A.M.</u>	4:00	<u>P.M.</u>			
Diesel	Brine Water	Fresh Water				
Crude Oil	<u>Salt Water</u>	Acid				
Bbls. Hauled <u>240</u>					.25	60.00
Driver, Operator or Pusher <u>Bill Rhoads</u>				7	56.00	392.00
Helper _____						
Helper _____						
Helper _____						
Other Charges _____						
Description of Work: <u>Pulled out of pits &amp; took to SWD.</u>						
				Sub Total		452.00
				Sales Tax		26.84
Authorized by: <u>M. Gil</u>				TOTAL		478.84

SUPERIOR-101

24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSSC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

178748

Date 10-15-95 Truck No. 327  
Company TIPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From LAME LAKE SWD Rig No. \_\_\_\_\_ Location 1  
To Lease \_\_\_\_\_ Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out		Time In		TIME	RATE	AMOUNT
<u>0630</u> <sup>A.M.</sup> P.M.		<u>15:00</u> <sup>A.M.</sup> P.M.			<u>.25</u>	<u>120.00</u>
Diesel	Brine Water	Fresh Water				
Crude Oil	Salt Water	Acid	Bbbs. Hauled <u>480</u>			
Driver, Operator or Pusher	<u>PAUL W RIIVOLISBACH</u>			<u>10.5</u>	<u>56.00</u>	<u>588.00</u>
Helper						
Helper						
Helper						
Other Charges						
Description of Work:	<u>DRAIN DIRT PIT DISPOSE AS DIRECTED-</u>					
					Sub Total	<u>708.00</u>
					Sales Tax	<u>42.04</u>
Authorized by: <u>M. John</u>					TOTAL	<u>750.04</u>

SUPERIOR-101

24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSSC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179830

Date 10-15-95 Truck No. 302  
Company TIPERARY CORP Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease LAME LAKE SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out		Time In		TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water				
Crude Oil	Salt Water	Acid	Bbbs. Hauled <u>120</u>		<u>.25</u>	<u>30.00</u>
Driver, Operator or Pusher	<u>Juan Serrano</u>			<u>3 1/2</u>	<u>56.00</u>	<u>196.00</u>
Helper						
Helper						
Helper						
Other Charges						
Description of Work:	<u>Haul 120 bbls Water From PIT TO HYM S.WD</u>					
					Sub Total	<u>226.00</u>
					Sales Tax	<u>13.42</u>
Authorized by: <u>M. John</u>					TOTAL	<u>239.42</u>





# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

179770

Date 10-10-95 Truck No. 302  
Company Teppery Corp Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane salt Lake, Burvo Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel	Brine Water	Fresh Water					
Crude Oil	Salt Water	Acid					
				Bbls. Hauled	<u>390</u>		
Driver, Operator or Pusher				<u>Juan Sarabia</u>	<u>6 1/2</u>	<u>56.00</u>	<u>364.00</u>
Helper							
Helper							
Helper							
Other Charges							
Description of Work:				<u>Pulled 390 bbls water off middle pit, take to satellite #1, S.W.D.</u>			
				Sub Total		<u>364.00</u>	
				Sales Tax		<u>21.61</u>	
Authorized by: <u>M. Gh</u>				TOTAL		<u>385.61</u>	

SUPERIOR-101

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

179682

Date 10-12-95 Truck No. 314  
Company Teppery Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane Lake SW D Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel	Brine Water	Fresh Water					
Crude Oil	<u>Salt Water</u>	Acid					
				Bbls. Hauled	<u>240</u>		
Driver, Operator or Pusher				<u>Rojelio Orvantia</u>	<u>5</u>	<u>52.00</u>	<u>260.00</u>
Helper							
Helper							
Helper							
Other Charges							
Description of Work:				<u>Pulled 2 loads from pit and took to Satellite #1 disposal.</u>			
				Sub Total		<u>260.00</u>	
				Sales Tax		<u>15.44</u>	
Authorized by: <u>M. Gh</u>				TOTAL		<u>275.44</u>	

SUPERIOR-101



24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179783

Date 10-18-95 Truck No. 302  
Company Lippert Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water				
Crude Oil	Salt Water	Acid	Bbls. Hauled			
Driver, Operator or Pusher	<u>Martin Hernandez</u>			<u>3</u>	<u>56.00</u>	<u>168.00</u>
Helper						
Helper						
Helper						
Other Charges						
Description of Work:	<u>Pulled fluid from pit and hauled to disposal</u>					
					Sub Total	<u>168.00</u>
					Sales Tax	<u>9.98</u>
Authorized by: <u>Elbert</u>					TOTAL	<u>177.98</u>

SUPERIOR-101





24-HOUR SERVICE, CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179976

Date 11-7-95 Truck No. 302  
Company Lippert Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel		Fresh Water				
Crude Oil		Acid				
		Bbls. Hauled				
		<u>220</u>			<u>2.50</u>	<u>550.00</u>
Driver, Operator or Pusher		<u>ROJELIO ORVANTIA</u>		<u>13 1/2</u>	<u>56.00</u>	<u>756.00</u>
Helper		<u>SANTOS GONZALES</u>		<u>13 1/2</u>	<u>14.05</u>	<u>189.68</u>
Helper						
Helper						
Other Charges						
Description of Work: <u>Hauled 220 bbls from pit to CFI disposal</u>						
					Sub Total	<u>1495.68</u>
					Sales Tax	<u>88.81</u>
Authorized by: <u>[Signature]</u>					TOTAL	<u>1584.49</u>

SUPERIOR-101

24-HOUR SERVICE, CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179977

Date 11-8-95 Truck No. 302  
Company Lippert Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel		Fresh Water				
Crude Oil		Acid				
		Bbls. Hauled				
		<u>120</u>			<u>2.50</u>	<u>300.00</u>
Driver, Operator or Pusher		<u>ROJELIO ORVANTIA</u>		<u>7 1/2</u>	<u>56.00</u>	<u>420.00</u>
Helper		<u>SANTOS GONZALES</u>		<u>7 1/2</u>	<u>14.05</u>	<u>105.38</u>
Helper						
Helper						
Other Charges						
Description of Work: <u>Pulled fluid from pit + hauled to CFI</u>						
					Sub Total	<u>825.38</u>
					Sales Tax	<u>49.01</u>
Authorized by: <u>[Signature]</u>					TOTAL	<u>874.39</u>

SUPERIOR-101

24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

175995

Date 11-4-95 Truck No. 327  
Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From LANE LAKE SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To HAND M SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

TIME	RATE	AMOUNT
Time Out <u>11:30</u> <sup>A.M.</sup> P.M.	Time In <u>1700</u> <sup>A.M.</sup> P.M.	
Diesel	Brine Water	Fresh Water
Crude Oil	Salt Water	Acid
Bbbs. Hauled <u>120</u>		
Driver, Operator or Pusher <u>PAUL W Rindlisbach</u>	<u>5.5 hr</u>	<u>56.00</u>
Helper		
Helper		
Helper		
Other Charges		
Description of Work: <u>LOAD AND DISPOSE OF FLUID AS DIRECTED</u>		
	Sub Total	<u>338.00</u>
	Sales Tax	<u>20.07</u>
Authorized by: <u>[Signature]</u>	TOTAL	<u>358.07</u>

SUPERIOR-101

24-HOUR SERVICE. CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179700

Date 11-6-95 Truck No. 302  
Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

TIME	RATE	AMOUNT
Time Out _____ A.M. P.M.	Time In _____ A.M. P.M.	
Diesel	Brine Water	Fresh Water
Crude Oil	Salt Water	Acid
Bbbs. Hauled <u>110</u>		
Driver, Operator or Pusher <u>ROJELIO JURANTIA</u>	<u>8</u>	<u>56.00</u>
Helper <u>SANTOS GONZALES</u>	<u>8</u>	<u>14.05</u>
Helper		
Helper		
Other Charges		
Description of Work: <u>PULLED 110 BBLs BSW FROM PIT AND HAULED TO CRI DISPOSAL.</u>		
	Sub Total	<u>835.40</u>
	Sales Tax	<u>49.60</u>
Authorized by: <u>[Signature]</u>	TOTAL	<u>885.00</u>

24-HOUR SERVICE, CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179689

Date 10-31-95 Truck No. 302  
Company Tipperary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel		Fresh Water		110	2.50	275.00
Crude Oil		Acid		120	25	30.00
Driver, Operator or Pusher <u>ROJERIO ORRANTIA</u>				9 1/2	56.00	532.00
Helper						
Helper <u>SANTOS GONZALES</u>				9 1/2	14.05	133.48
Helper						
Other Charges						
Description of Work: <u>Took BSW to CHI disposal and unloaded. Picked 120 bbls water from pit and hauled to ATM disposal.</u>						
					Sub Total	970.48
					Sales Tax	57.62
Authorized by: <u>[Signature]</u>					TOTAL	1028.10

SUPERIOR-101

24-HOUR SERVICE, CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179437

Date 11-2-95 Truck No. 3-26  
Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From LAKE LAKE SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease \_\_\_\_\_ Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel		Fresh Water				
Crude Oil		Acid				
Driver, Operator or Pusher <u>FAUSTO R. GAYTAN</u>				13	56.00	728.00
Helper						
Helper <u>JUAN SANCHES</u>				13	14.05	182.65
Helper						
Other Charges						
Description of Work: <u>Pulled BSW from pit + took to CHI disposal.</u>						
					Sub Total	1210.65
					Sales Tax	71.88
Authorized by: <u>[Signature]</u>					TOTAL	1282.53

SUPERIOR-101





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LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179439

Date 11-4-95 Truck No. 326  
 Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
 From LAME LAKE SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
 To Lease \_\_\_\_\_ Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel						
Brine Water						
Crude Oil						
Fresh Water						
Acid						
Bbbs. Hauled <u>240</u>					<u>2.50</u>	<u>600.00</u>
Driver, Operator or Pusher <u>Fausto R. Gaytan</u>				<u>13</u>	<u>56.00</u>	<u>728.00</u>
Helper						
Helper <u>Fidencio Olivas</u>				<u>13</u>	<u>14.05</u>	<u>182.65</u>
Helper						
Other Charges						
Description of Work: <u>Pulled two loads BS &amp; W from pit and hauled to CRF disposal.</u>						
					Sub Total	<u>1510.65</u>
					Sales Tax	<u>89.69</u>
Authorized by: <u>Elliot</u>					TOTAL	<u>1600.34</u>

SUPERIOR-101

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LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179694

Date 11-4-95 Truck No. 302  
 Company Tipperary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
 From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
 To Lease Lame Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel						
Brine Water						
Crude Oil						
Fresh Water						
Acid						
Bbbs. Hauled <u>100</u>					<u>2.50</u>	<u>250.00</u>
Driver, Operator or Pusher <u>Rodolfo Orvanti A</u>				<u>4 1/2</u>	<u>56.00</u>	<u>252.00</u>
Helper <u>SANTOS GONZALES</u>				<u>4 1/2</u>	<u>14.05</u>	<u>63.23</u>
Helper						
Helper						
Other Charges						
Description of Work: <u>Pulled 100 bbls from pit and took to CRF disposal.</u>						
					Sub Total	<u>565.23</u>
					Sales Tax	<u>33.56</u>
Authorized by: <u>Elliot</u>					TOTAL	<u>598.79</u>

24-HOUR SERVICE, CALL  
PHO. 398-4960  
LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179692

Date 11-3-95 Truck No. 302  
Company Tipperary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel		Fresh Water					
Crude Oil		Acid					
		Bbls. Hauled					
					2.50	275.00	
Driver, Operator or Pusher		<u>Rojelio Orvata</u>		5	56.00	280.00	
Helper							
Helper							
Helper							
Other Charges							
Description of Work: <u>Hauled 110 Hls BSW to CRT disposal.</u>							
						Sub Total	555.00
						Sales Tax	32.95
Authorized by: <u>[Signature]</u>						TOTAL	587.95

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LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179438

Date 11-3-95 Truck No. 326  
Company TIPPERARY Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From CANE LAKE SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease \_\_\_\_\_ Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel		Fresh Water					
Crude Oil		Acid					
		Bbls. Hauled					
					2.50	600.00	
Driver, Operator or Pusher		<u>Fausto R. Gaytan</u>		14	56.00	784.00	
Helper							
Helper		<u>SANTOS N GONZALES</u>		14	14.05	196.70	
Helper							
Other Charges							
Description of Work: <u>Pulled two loads BSW from pit and hauled to CRT disposal.</u>							
						Sub Total	1580.70
						Sales Tax	93.85
Authorized by: <u>[Signature]</u>						TOTAL	1674.55

SUPERIOR-101





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LOVINGTON 396-4948

# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179017

Date 10-24-95 Truck No. 311-328  
Company Tipperrary operating Co. Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From Lone Lake SW D Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease H.M. S.W.D. Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel		Fresh Water			.25	10.00	
Crude Oil		Acid					
Bbls. Hauled <u>40</u>							
Driver, Operator or Pusher <u>Steven Bass</u>				5 hrs	52.00	260.00	
Helper							
Helper							
Helper							
Other Charges							
Description of Work: <u>Drive to location. Loaded 40 bbls out pits standing by, and hauled to disposal. Drive back to yard.</u>							
						Sub Total	270.00
						Sales Tax	16.03
Authorized by: <u>OK RPH</u>						TOTAL	286.03

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# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179881

Date 10-24-95 Truck No. 302  
Company Tipperrary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone lake SW D Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT	
Diesel		Fresh Water			.25	25.00	
Crude Oil		Acid					
Bbls. Hauled <u>100 bbls</u>							
Driver, Operator or Pusher <u>W.D. Collins</u>				4 hrs	56.00	224.00	
Helper							
Helper							
Helper							
Other Charges <u>inker disposal 100 bbls fluid</u>							
Description of Work: <u>Hauled 100 bbls fluid from location to inkers disposal</u>							
						Sub Total	249.00
						Sales Tax	14.78
Authorized by: <u>E. H. Hester</u>						TOTAL	263.78

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# GANDY CORPORATION

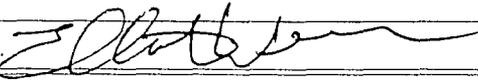
KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

175978

Date 10-26-95 Truck No. 327  
Company Tipperary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From LANE LAKE SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease C.R.I. Well No. \_\_\_\_\_ Location \_\_\_\_\_

TIME	RATE	AMOUNT
Time Out <u>0600</u> <sup>A.M.</sup> P.M.	Time In <u>18:30</u> <sup>A.M.</sup> P.M.	
Diesel	Brine Water	Fresh Water
Crude Oil	Salt Water	Acid
Bbls. Hauled <u>130</u>		<u>2.50</u>
Driver, Operator or Pusher <u>PAUL W Rindlisbach</u>	<u>12.5</u>	<u>56.00</u>
Helper		
Helper		
Helper		
Other Charges		
Description of Work: <u>LOAD B.S dispose AS DIRECTED.</u>		
Sub Total		<u>1,025.00</u>
Sales Tax		<u>60.86</u>
TOTAL		<u>1,085.86</u>

Authorized by:   
SUPERIOR-101

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# GANDY CORPORATION

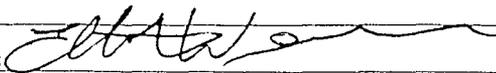
KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

179685

Date 10-26-95 Truck No. 302  
Company Tipperary Purchase Order No. \_\_\_\_\_ Invoice Number \_\_\_\_\_  
From Lane Lake SWD Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lane Lake SWD Well No. \_\_\_\_\_ Location \_\_\_\_\_

TIME	RATE	AMOUNT
Time Out _____ A.M. P.M.	Time In _____ A.M. P.M.	
Diesel	Brine Water	Fresh Water
Crude Oil	Salt Water	Acid
Bbls. Hauled _____		
Driver, Operator or Pusher <u>ROJELIO ORRANTIA</u>	<u>10%</u>	<u>56.00</u>
Helper		
Helper		
Helper		
Other Charges		
Description of Work: <u>Picking up fluid from pit,</u>		
Sub Total		<u>588.00</u>
Sales Tax		<u>34.91</u>
TOTAL		<u>622.91</u>

Authorized by:   
SUPERIOR-101

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# GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS  
TANK CLEANING - OIL TREATING  
ROUSTABOUTING  
NMSCC #14225

1109 E. BROADWAY  
BOX 827  
TATUM, NEW MEXICO 88267

183452

Date 11-7-95 Truck No. I & W Trucks  
Company Tiperan Purchase Order No. \_\_\_\_\_ Invoice Number 78  
From \_\_\_\_\_ Rig No. \_\_\_\_\_ Location \_\_\_\_\_  
To Lease Lone Lake SWD. Well No. \_\_\_\_\_ Location \_\_\_\_\_

Time Out	A.M. P.M.	Time In	A.M. P.M.	TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water				
Crude Oil	Salt Water	Acid	Bbbs. Hauled <u>120</u>		<u>2.50</u>	<u>300<sup>00</sup></u>
Driver, Operator or Pusher	<u>E Sanchez from I &amp; W</u>			<u>8.5</u>	<u>61<sup>00</sup></u>	<u>518<sup>50</sup></u>
Helper						
Helper						
Helper						
Other Charges	<u>Set out truck</u>					<u>40<sup>00</sup></u>
Description of Work:	<u>Haul 120 bbls. of bsw</u>					
	<u>out of pit and dispose at</u>					
	<u>CRI</u>					
					Sub Total	<u>858<sup>50</sup></u>
					Sales Tax	<u>50<sup>97</sup></u>
Authorized by:					TOTAL	<u>909<sup>47</sup></u>

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-4-95

OPERATOR Tupperary Oil & Gas

LEASE Law Lake SLD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 175995 BBL. 120

TRUCK 327

DRIVER Paul Rindlich

DESTINATION H&M

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-4-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179439 BBL. 120

TRUCK 326

DRIVER Fausto Bayton

DESTINATION CRI

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-4-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179439 BBL. 120

TRUCK 326

DRIVER Fausto Bayton

DESTINATION CRI

## GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-5-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179440 BBL. 120

TRUCK 326

DRIVER Fausto Bayton

DESTINATION CRI

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-3-95

OPERATOR Tipperary Oil & Gas

LEASE lane lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179438 BBL. 120

TRUCK 326

DRIVER Fausto Bayton

DESTINATION CRI SWD

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-3-95

OPERATOR Tipperary Oil & Gas

LEASE lane lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179438 BBL. 120

TRUCK 326

DRIVER Fausto Bayton

DESTINATION CRI SWD

## GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-3-95

OPERATOR Tipperary Oil & Gas

LEASE lane lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179693

BBL. 100

TRUCK 302

DRIVER Rogelio Duran

DESTINATION CRI

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-24-95

OPERATOR Tipperary SWD Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179881 BBL. 100

TRUCK 302

DRIVER Max Collins

DESTINATION Jenkins

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-26-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 175978 BBL. 130

TRUCK 327

DRIVER Paul Rendlisbock

DESTINATION CRJ

## GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 11-2-95

OPERATOR Tipperary

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179437

BBL. 120

TRUCK 326

DRIVER Fausto Baytan

DESTINATION CRJ SWD

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-16-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 185168 BBL. 80

TRUCK 319

DRIVER Bill Rhodes

DESTINATION H&M

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 185166 BBL. 120

TRUCK 319

DRIVER Bill Rhodes

DESTINATION H&M SWD

## GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 185166 BBL. 120

TRUCK 319

DRIVER Bill Rhodes

DESTINATION H&M

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179829 BBL. 120

TRUCK 328

DRIVER Juan Sanchez

DESTINATION LENKINS

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179683 BBL. 120

TRUCK 302

DRIVER Royellio Arantia

DESTINATION Gandy Plant

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-15-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 178748 BBL. 120

TRUCK 327

DRIVER Paul Smallwood

DESTINATION H&M SWD

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179829 BBL. 120

TRUCK 328

DRIVER Juan Sarabia

DESTINATION Jenkins

# GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-09-95

OPERATOR Tipperary

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 179765 BBL. 120

TRUCK 302

DRIVER Juan Sarabia

DESTINATION Gandy Plant

## GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

DATE 10-14-95

OPERATOR Tipperary Oil & Gas

LEASE Lane Lake SWD

TIME	OIL TOP	SEAL OFF
	H <sub>2</sub> O TOP	
TIME	OIL TOP	SEAL ON
	H <sub>2</sub> O TOP	

TICKET # 178747 BBL. 120

TRUCK 178747

DRIVER Paul Rendallbach

DESTINATION H&M SWD

Truck  
Ticket



**CONTROLLED RECOVERY, INC.**  
A Subsidiary of TransAmerican Waste Industries, Inc.

No. 001138

Hobbs, NM 10 31, 19 95

Transporter Gandy Truck No. 302

Permit or Tender No. H 18317 Issued to \_\_\_\_\_

Pipe Line or Lease Station Lane Lake SWD - 19689

Operator Burro Pipeline

Top Gauge Ft \_\_\_\_\_ In \_\_\_\_\_ Back Gauge Ft \_\_\_\_\_ In \_\_\_\_\_  
Barrels Delivered 110

Water Gauge Ft \_\_\_\_\_ In \_\_\_\_\_  
Barrels Water \_\_\_\_\_

100% BSTW Gross Bbls Received 110

For Transporter

**CONTROLLED RECOVERY, INC.**

Truck Driver Roselio Orrantia Checked By [Signature]

10-95-500-3PT-#1101

Truck  
Ticket



**CONTROLLED RECOVERY, INC.**  
A Subsidiary of TransAmerican Waste Industries, Inc.

No. 001151

Hobbs, NM 11 2, 19 95

Transporter Gandy Truck No. 302

Permit or Tender No. H 18335 Issued to \_\_\_\_\_

Pipe Line or Lease Station Lane Lake SWD - Jipparay 19692

Operator Burro Pipeline

Top Gauge Ft \_\_\_\_\_ In \_\_\_\_\_ Back Gauge Ft \_\_\_\_\_ In \_\_\_\_\_  
Barrels Delivered 110

Water Gauge Ft \_\_\_\_\_ In \_\_\_\_\_  
Barrels Water \_\_\_\_\_

100% BSTW Gross Bbls Received 0

For Transporter

**CONTROLLED RECOVERY, INC.**

Truck Driver Roselio Orrantia Checked By [Signature]

10-95-500-3PT-#1101

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 396-8882  
Mobile 389-8832

No. 2836

**PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED.**

Date 10-31-95 Time \_\_\_\_\_  am  pm

Trucking Co. GANDY COVP

WHP# \_\_\_\_\_ Unit # 302

No. of Barrels Unloaded 120

Company Hauled For BURRO P. PIPELINE

Lease Name \_\_\_\_\_

Lease # 179689

Driver ROSELIO ORRANTIA

Truck  
Ticket



**CONTROLLED RECOVERY, INC.**

A Subsidiary of TransAmerican Waste Industries, Inc.

No. 001131

Hobbs, NM 10 27 19 95

Transporter Gandy Truck No. 302

Permit or Tender No. H 18717 Issued to \_\_\_\_\_

Pipe Line or Lease Station Love Lake SWD 179686

Operator Burro Pipeline

Top Gauge Ft \_\_\_\_\_ In \_\_\_\_\_ Back Gauge Ft \_\_\_\_\_ In \_\_\_\_\_ Barrels Delivered 120

Water Gauge Ft \_\_\_\_\_ In \_\_\_\_\_ Barrels Water \_\_\_\_\_

10090 Bbls Gross Bbls Received 120

For Transporter

**CONTROLLED RECOVERY, INC.**

Truck Driver Roselio Orrantia Checked By [Signature]

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No. 2755

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED.

Date 10-15-95 Time \_\_\_\_\_  am  pm

Trucking Co. GANDY

WHP# \_\_\_\_\_ Unit # 327  
360

No. of Barrels Unloaded 120

Company Hauled For TIPPERARY 178748

Lease Name LANE LAKE SWD

Lease # 1

Driver Paul W Rudolph

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No. 2736

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED.

Date 10-14-95 Time \_\_\_\_\_  am  pm

Trucking Co. GANDY

WHP# \_\_\_\_\_ Unit # 327

No. of Barrels Unloaded 120

Company Hauled For TIPPERARY

Lease Name LANE LAKE SWD

Lease # 1

Driver Paul W Rudolph

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No. 2791

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED.

Date 10-24-95 Time \_\_\_\_\_  am  pm

Trucking Co. Gandy Corp

WHP# 1258 Unit # 311-322

No. of Barrels Unloaded 40

Company Hauled For Tipperary 17907

Lease Name \_\_\_\_\_

Lease # \_\_\_\_\_

Driver Steve Mason

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No. 2757

179830

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED.

Date 10-25-95 Time \_\_\_\_\_  am  pm

Trucking Co. Gandy Corp

WHP# \_\_\_\_\_ Unit # 322

No. of Barrels Unloaded \_\_\_\_\_

Company Hauled For Tipperary Corp

Lease Name Lane Lake SWD

Lease # \_\_\_\_\_

Driver Steve Mason

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No 2743

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED

Date 10-14-95 Time \_\_\_\_\_  am  pm

Trucking Co Gandy

WHP# \_\_\_\_\_ Unit # 327

No. of Barrels Unloaded 120

Company Hauled For TIPPERARY

Lease Name LANE LAKE SWD

Lease # 1

Driver Paul Reddish

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No 2695

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED

Date 10-9-95 Time \_\_\_\_\_  am  pm

Trucking Co Gandy Corp

WHP# 1759 Unit # 314

No. of Barrels Unloaded 75 full

Company Hauled For Tipperary 179803

Lease Name \_\_\_\_\_

Lease # Burns Pipe Line

Driver Salvador Oseth

# H & M DISPOSAL

Box 1544 • Lovington, NM 88260  
(505) 398-8862  
Mobile 369-8832

No 2741

PLEASE FILL IN COMPLETELY AND TAKE PINK COPY  
MAKE A SEPARATE TICKET FOR EACH LOAD HAULED

Date 10-14-95 Time \_\_\_\_\_  am  pm

Trucking Co GANDY

WHP# \_\_\_\_\_ Unit # 327

No. of Barrels Unloaded 120

Company Hauled For TIPPERARY

Lease Name LANE LAKE SWD

Lease # 1

Driver Paul Reddish

# H&M Disposal

BOX 1544 - 505/396-6862  
LOVINGTON, NM 88260

No 9698

PLEASE FILL IN COMPLETELY AND TAKE  
PINK COPY. MAKE A SEPARATE TICKET  
FOR EACH LOAD HAULED.

DATE 10-05-95 TIME \_\_\_\_\_  AM  PM

TRUCKING CO Gandy Corp

WHP # \_\_\_\_\_ UNIT # 302

NO. OF BARRELS UNLOADED 120

COMPANY HAULED FOR Tipperary

LEASE NAME Lane Lake SWD

LEASE # \_\_\_\_\_

DRIVER Bill Rhodes

CONTROLLED RECOVERY INC.

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burns Pipeline

LEASE NAME: Lane Lake SWD

TRANSPORTER COMPANY: Gandy TIME: 12:30 AM/PM

DATE: 11-5-95 VEHICLE No.: \_\_\_\_\_ DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-117 No. \_\_\_\_\_  
 OTHER MATERIAL  
DESCRIPTION: CALLOUT + 100% Iron sulfides

VOLUME OF MATERIAL:  BBLs 110  YARD \_\_\_\_\_

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: R. P. ...  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
NO. 20469 (SIGNATURE)

White - CRI 0-25251 Canary - CRI Accounting Pink - CRI Accounting Gold - Transporter

CONTROLLED RECOVERY INC.

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: HILL'S

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: Gandy TIME: 7:35 AM/PM

DATE: 11-4-95 VEHICLE No.: \_\_\_\_\_ DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-117 No. \_\_\_\_\_  
 OTHER MATERIAL  
DESCRIPTION: CALLOUT + WASHOUT

VOLUME OF MATERIAL:  BBLs 65  YARD \_\_\_\_\_

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
NO. 20652 (SIGNATURE)

White - CRI 0-25251 Canary - CRI Accounting Pink - CRI Accounting Gold - Transporter

CONTROLLED RECOVERY INC.

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burns Pipeline

LEASE NAME: Lane Lake SWD

TRANSPORTER COMPANY: Gandy TIME: 2:25 AM/PM

DATE: 11-8-95 VEHICLE No.: 302 DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-117 No. \_\_\_\_\_  
 OTHER MATERIAL  
DESCRIPTION: Sulfides/Solids

VOLUME OF MATERIAL:  BBLs 120  YARD \_\_\_\_\_

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
NO. 20714 (SIGNATURE)

White - CRI 0-25251 Canary - CRI Accounting Pink - CRI Accounting Gold - Transporter

CONTROLLED RECOVERY INC.

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burns Pipeline

LEASE NAME: Lane Lake SWD

TRANSPORTER COMPANY: Gandy TIME: 5:35 AM/PM

DATE: 11-6-95 VEHICLE No.: 302 DRIVER No.: \_\_\_\_\_

TYPE OF MATERIAL  
 PRODUCTION WATER  DRILLING FLUIDS  COMPLETION FLUIDS  
 TANK BOTTOMS  CONTAMINATED SOIL  C-117 No. \_\_\_\_\_  
 OTHER MATERIAL  
DESCRIPTION: Sulfides, Solids

VOLUME OF MATERIAL:  BBLs 110  YARD \_\_\_\_\_

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
NO. 20702 (SIGNATURE)

White - CRI 0-25251 Canary - CRI Accounting Pink - CRI Accounting Gold - Transporter

**CONTROLLED RECOVERY INC.**

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burro Pipe Line Tipperary

LEASE NAME: Lano Lake SWD

DATE: 11 7 95

VEHICLE No.: 302

DRIVER No.:

TYPE OF MATERIAL: Sulfides/Solids

DRILLING FLUIDS  
 CONTAMINATED SOIL

COMPLETION FLUIDS  
 C-117 No.

PRODUCTION WATER  
TANK BOTTOMS  
OTHER MATERIAL  
DESCRIPTION: After Hours

VOLUME OF MATERIAL: 110 BBLs 110 YARD

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: R. J. ...  
(SIGNATURE)

FACILITY REPRESENTATIVE: 20710  
(SIGNATURE)

White - CRI  
n-25251

Canary - CRI Accounting

Pink - CRI Accounting

Gold - Transporter

**CONTROLLED RECOVERY INC.**

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Tipperary

LEASE NAME: Dand SWD

DATE: 10 6 95

VEHICLE No.: 302

DRIVER No.:

TYPE OF MATERIAL: Solids

DRILLING FLUIDS  
 CONTAMINATED SOIL

COMPLETION FLUIDS  
 C-117 No.

PRODUCTION WATER  
TANK BOTTOMS  
OTHER MATERIAL  
DESCRIPTION: 120

VOLUME OF MATERIAL: 120 BBLs 120 YARD

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: ...  
(SIGNATURE)

**CONTROLLED RECOVERY INC.**

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burro Pipe Line

LEASE NAME: Lano Lake SWD

DATE: 11 7 95

VEHICLE No.: 302

DRIVER No.:

TYPE OF MATERIAL: Sulfided Solids

DRILLING FLUIDS  
 CONTAMINATED SOIL

COMPLETION FLUIDS  
 C-117 No.

PRODUCTION WATER  
TANK BOTTOMS  
OTHER MATERIAL  
DESCRIPTION: After Hours

VOLUME OF MATERIAL: 110 BBLs 110 YARD

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: ...  
(SIGNATURE)

FACILITY REPRESENTATIVE: 20705  
(SIGNATURE)

White - CRI  
B-25251

Canary - CRI Accounting

Pink - CRI Accounting

Gold - Transporter

**CONTROLLED RECOVERY INC.**

P.O. BOX 369 • HOBBS, NEW MEXICO 88241  
(505) 393-1079

LEASE OPERATOR/COMPANY: Burro Pipe Line

LEASE NAME: Lano Lake SWD

DATE: 11 4 95

VEHICLE No.:

DRIVER No.:

TYPE OF MATERIAL: CALL SWD + 100"

DRILLING FLUIDS  
 CONTAMINATED SOIL

COMPLETION FLUIDS  
 C-117 No.

PRODUCTION WATER  
TANK BOTTOMS  
OTHER MATERIAL  
DESCRIPTION: CALL SWD + 100"

VOLUME OF MATERIAL: 100 BBLs 100 YARD

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: ...  
(SIGNATURE)

FACILITY REPRESENTATIVE: ...  
(SIGNATURE)



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

April 12, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-269-269-133**

Mr. Robert H. Fehlmann  
Environmental Coordinator  
Tipperary Corporation  
633 Seventeenth St., Suite 1550  
Denver, Colorado 80202

**RE: CLOSURE REPORT  
LANE SALT LAKE DISPOSAL FACILITY  
BURRO PIPELINE CORPORATION**

Dear Mr. Fehlmann:

The New Mexico Oil Conservation Division (OCD) is in the process of reviewing Tipperary Corporation's (TC) January 9, 1996 "FINAL REMEDIATION REPORT, SALT WATER SKIMMER PITS, LANE SALT LAKE WATER DISPOSAL FACILITY OWNED BY BURRO PIPELINE CORPORATION, LEA COUNTY, NEW MEXICO" which was received by the OCD on January 31, 1996. This document contains the results of TC's closure actions at Burro Pipeline Corporation's Lane Salt Lake Disposal Facility.

The OCD has the following comments and requests for information regarding the above referenced document:

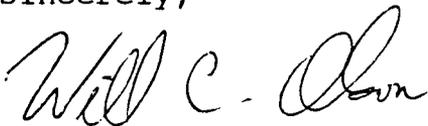
1. The report states that the metal, flow lines, netting and supports were transported to Gandy Oilfield Services disposal facility near Tatum, New Mexico. Since Gandy's facility is not permitted to receive these types of wastes, the OCD contacted Gandy to determine if these wastes were disposed of at their facility. Gandy informed the OCD that they had not received these wastes. Please provide the OCD with the waste manifests which show the disposal location to which these wastes were taken. ✓
2. The executive summary states that manifests were enclosed which show the disposal location to which 4590 bbls. of fluids were taken. No such manifests could be found in the report. Please provide this information to the OCD. ✓
3. Please provide a map or schematic showing the sampling locations of the pit samples. ✓

Mr. Robert H. Fehlmann  
April 12, 1996  
Page 2

4. The data on the colored overlays for each pit appears to conflict with the data presented in the tables. The overlays show remaining contaminant levels in the pit bottoms in excess of 10,000 ppm of TPH. The pit bottom TPH levels listed in the tables are 2 to 30 times lower than those depicted on the overlays. Please provide information addressing these discrepancies. ✓
5. Please provide the depth intervals of the final spread zone sample locations. ✓
6. Please submit a post-closure monitoring plan for the facility. The plan will contain a method of demonstrating that remaining contaminants will not pose future threats.

Submission of the above requested information will allow the OCD to complete a review of the above referenced document. If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrogeologist  
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor  
Wayne Price, OCD Hobbs Office  
Dwain Glidewell, NM State Land Office



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

**RECEIVED**  
JAN 31 1996  
Environmental Bureau  
Oil Conservation Division

January 9, 1996

Mr. Roger C. Anderson  
Environmental Bureau Chief  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
Santa Fe, New Mexico 87505

SUBJECT: FINAL REMEDIATION REPORT  
SALT WATER SKIMMER PITS  
Lane Salt Lake water disposal facility owned by Burro Pipeline Corporation  
Lea County, New Mexico

Dear Mr. Anderson:

Enclosed is the final remediation report for Burro Pipeline's Lane Salt Lake salt water disposal facility. We believe that we have met all of New Mexico's closure requirements, and would like your department to approve final closed status for the pits.

At Bill Olson's suggestion, I have forwarded one copy of this report to Wayne Price in your Hobbs Office. I'd like you to know that it was a pleasure to work with New Mexico's OCD people on this project. They offered many helpful suggestions.

If there are any questions about our remediation procedure or this report, please contact me.

Sincerely Yours,

Robert H. Fehlmann  
Environmental Coordinator