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271

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# REPORTS

**DATE:**

1999

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# Tipperary CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202

1 15 1999

FEB 22 1999

February 16, 1999

**CERTIFIED MAIL**

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

**RE: January 1999 Progress Report  
Tatum Pit Closure Project  
Lea County, NM**

Dear Mr. Olson:

Please find enclosed additional results from our monitor wells in the subject project area. These results are from water samples taken on January 8, 1999. These samples represent the sixth quarter of monitoring. The total BTEX concentrations continue to decline. We will continue to analyze water samples quarterly from the subject project.

Because the following wells have had at least four consecutive quarters of acceptable BTEX concentrations, we formally request final closure for these projects: Vera (pit and monitor well #5), State NBN (pit and monitor well #7), Iva Com (monitor wells #1 & #2), Mable Com (monitor well #3). Please advise if this request is acceptable.

In response to your January 15, 1999 correspondence, please be advised that we are scheduling the installation of additional monitor wells in accordance with the conditions set forth in your letter. Additionally, we respectfully request an extension until May 1, 1999 to submit our next progress report rather than the April 1 deadline specified in your letter. This will allow us to stay on our current quarterly monitoring schedule. Please advise if this is not acceptable.

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



**Tipperary**  
CORPORATION

TATUM PIT CLOSURE PROJECT  
WATER SAMPLING RESULTS  
JANUARY, 1999



## **Executive Summary**

### **Iva COM**

#### **Monitor Wells # 1, 2**

No sample from either Iva COM well has ever revealed a BTEX component concentration in excess of standards. Tipperary may request closure of monitor wells nos. 1 and 2. The source well is still producing free product on occasion and has not been tested for BTEX.

### **Mable COM**

#### **Monitor Wells # 3, 4**

Monitor well # 3 has recorded four consecutive quarters of acceptable BTEX concentrations. Tipperary may request closure of this well. Well # 4 has shown two consecutive quarters of acceptable BTEX concentrations. The source well has not been tested for BTEX.

### **Vera**

#### **Monitor Well # 5**

Monitor well # 5 has shown six consecutive quarters of acceptable concentrations. Tipperary may request closure of the pit and monitor well.

### **Bell**

#### **Monitor Wells # 6, 13, 14**

Monitor well # 13 has gone two quarters with acceptable concentrations. Wells # 6 & 14 continue to show benzene concentrations in excess of standards. Such concentrations are consistently trending lower. A delineation well is required for this site.

### **NBN**

#### **Monitor Well # 7**

Monitor well # 7 has shown four consecutive quarters of acceptable concentrations. Tipperary may request closure of the pit and monitor well.

### **NBF**

#### **Monitor Wells # 8, 15, 16**

All well BTEX concentrations exceed standards. A delineation well is required for this site.



**Sohio State # 1**

**Monitor Wells # 10**

Though trending steadily downward, all well sample concentrations exceed standard. A delineation well is required for this site.

**Sohio State "A"**

**Monitor Well # 11, 19, 20**

The benzene concentrations in all three wells are trending sharply downward. At the present rate of decline, wells 19 & 20 will become delineation wells through natural attenuation within six months.

**GS State # 1**

**Monitor Wells # 12, 21, 22**

Monitor well # 12 continues to contain free product. BTEX concentrations in wells 21 & 22 are trending downward though not as sharply as similar sites. Well # 12 should be evaluated for potential as a source well. A delineation well is required for this site.

**Satellite # 4**

**Monitor Wells # 9, 23, 24**

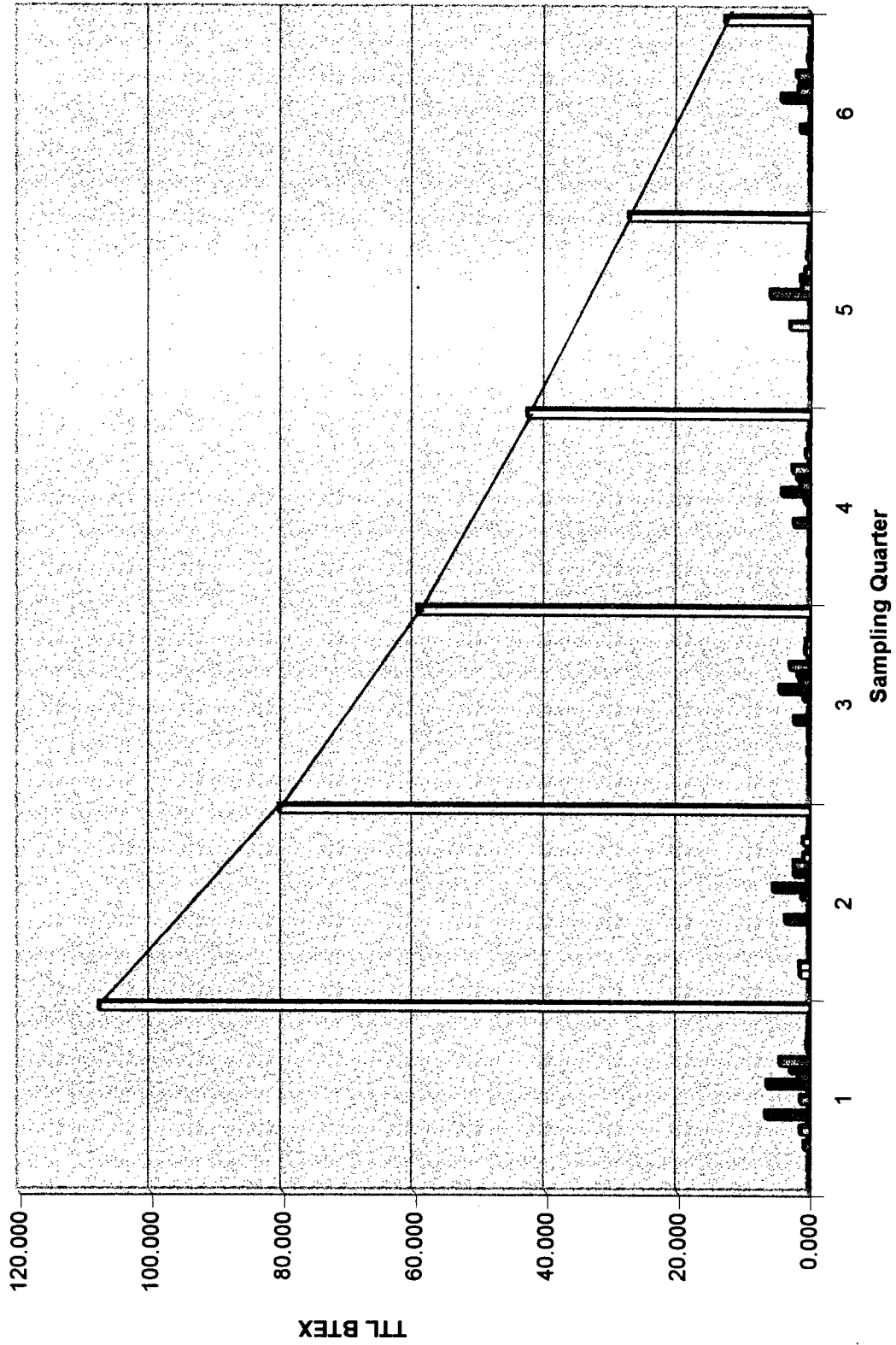
Well # 24 has shown four quarters of acceptable concentrations. The reported benzene concentrations from Well # 23 have been quite erratic but appear to be generally trending downward. Well # 23 presently shows acceptable concentrations. Well # 9 is steadily trending lower in benzene and should fall within acceptable limits within the next few sampling rounds.



**Tipperary Corporation  
Tatum Pit Closure Project  
Quarterly Sampling Comparison**

<b>Well #</b>	<b>9/5/97</b>	<b>12/3/97</b>	<b>3/23/98</b>	<b>6/25/98</b>	<b>10/1/98</b>	<b>1/6/99</b>
1	0.012	0.025	0.022	0.030	0.023	0.011
2	0.005	0.013	0.011	0.010	0.010	0.010
3	0.200	1.387	0.054	0.071	0.093	0.073
4	0.031	1.501	0.047	0.049	0.013	0.019
5	0.019	0.025	0.011	0.037	0.015	0.011
6	0.790	0.068	0.281	0.249	0.141	0.137
7	0.005	0.023	0.017	0.048	0.023	0.008
8	1.377	0.023	0.146	0.058	0.018	0.036
9	0.285	0.123	0.007	0.081	0.050	0.049
10	6.626	3.626	2.292	2.423	3.096	1.532
11	0.122	0.124	0.184	0.141	0.108	0.105
13	1.346	0.010	0.037	0.056	0.017	0.007
14	0.005	1.183	0.918	0.764	0.184	0.161
15	6.432	5.499	4.588	4.189	6.086	4.380
16	1.662	0.256	1.419	1.446	1.287	1.845
17	2.908	2.305	1.863	1.920	1.419	1.665
18	4.498	2.361	3.013	2.601	0.786	2.072
19	0.011	0.875	0.184	0.079	0.082	0.094
20	0.454	0.345	0.658	0.604	0.539	0.390
21	0.287	0.953	0.554	0.198	0.238	0.259
22	0.152	0.200	0.195	0.344	0.144	0.134
23	0.009	0.122	0.106	0.008	0.078	0.014
24	0.009	0.064	0.007	0.017	0.007	0.011
	<b>107.873</b>	<b>80.628</b>	<b>59.517</b>	<b>42.903</b>	<b>27.480</b>	<b>13.023</b>

# Tipperary Quarterly Sampling Comparison



- Series1
- Series2
- Series3
- Series4
- Series5
- Series6
- Series7
- Series8
- Series9
- Series10
- Series11
- Series12
- Series13
- Series14
- Series15
- Series16
- Series17
- Series18
- Series19
- Series20
- Series21
- Series22
- Series23
- Series24

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

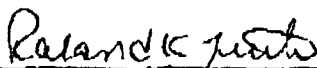
TIPPERARY  
ATTN: MR. VICTOR A. VICE  
P.O. BOX 857  
TATUM, NM 88267  
FAX: 505-398-6510  
FAX: 281-646-8996

Receiving Date: 01/08/99  
Sample Type: Water  
Project: None Given  
Project Location: Tatum, New Mexico 88237

Analysis Date: 01/08/99  
Sampling Date: 01/06 & 01/07/99  
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)
16587	Sohio St. #1 - #17	0.878	0.138	0.094	0.339	0.163
16588	Sohio St. #1 - #18	1.10	0.247	0.107	0.415	0.203
16589	Sohio Sta. M/W #19	0.040	0.014	0.006	0.021	0.013
16590	Sohio Sta. M/W #20	0.341	0.010	0.005	0.028	0.008
16591	GS State M/W #21	0.133	0.010	0.054	0.056	0.006
16592	GS State M/W #22	0.039	0.010	0.020	0.048	0.017
16593	Sat. #4 M/W #23	0.004	0.003	0.001	0.004	0.002
16594	Sat. #4 M/W #24	0.004	0.003	<0.001	0.002	<0.001
16595	Ma Com. M/W #1	0.003	0.001	<0.001	0.002	0.004
16596	Ma Com. M/W #2	0.004	0.001	<0.001	0.003	0.001
16597	Mable Com. M/W #3	<0.001	0.002	0.012	0.042	0.016
16598	Mable Com. M/W #4	0.007	0.002	0.002	0.006	0.002
16599	Vera M/W #5	0.002	0.002	0.001	0.004	0.002
16600	Bell A M/W #6	0.127	0.001	0.003	0.005	0.001
16601	NBN M/W #7	0.003	<0.001	<0.001	0.002	<0.001
16602	NBF M/W #8	0.028	0.001	0.003	0.003	<0.001
16603	Sat. 4 M/W #9	0.034	0.003	0.008	0.005	0.001
16604	Sohio St. #1 M/W #10	1.00	0.067	0.156	0.214	0.095
16605	Sohio Sta. M/W #11	0.061	0.011	0.005	0.018	0.012
16606	Bell A M/W #13	0.001	<0.001	<0.001	0.003	0.001
16607	Bell A M/W #14	0.154	<0.001	0.002	0.003	0.001
16608	NBF M/W #15	1.83	1.49	0.182	0.728	0.350
16609	NBF M/W #16	1.47	0.122	0.047	0.144	0.082
	% IA	86	85	87	85	87
	% EA	90	90	89	88	90
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020.5030



Roland K Tuttle

1-11-99

Date



Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

V.A. Vice 7. Whole Earth

Phone #: 1-800-854-4358  
 FAX #: 505-398-6509

TIPEROY OIL & GAS

Company Name & Address:

TATUM, N.MEX #88267

Project #:

M/W

Project Name:

Project Location:

TATUM, N.MEX

Sampler Signature:

*P.A. Davis*

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

BTEX 8021/S030	
TPH 418.1	
TCLP Metals Ag As Ba Cd Cr Pb Hg Se	
Total Metals Ag As Ba Cd Cr Pb Hg Se	
TCLP Volatiles	
TCLP Semi Volatiles	
TDS	
RCI	

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE			NONE
16595	IYA Com. M/w #1 #3	2											1/6/99	
16596	MABLE Com. #3 #4	2											1/6/99	
16597	VERA # M/w #5	2											1/6/99	
16598	Bella m/w #6	2											1/6/99	
16599	NBN M/w #7	2											1/6/99	
16600	NBF M/w #8	2											1/6/99	
16601	SATILITE 4 - M/w #9	2											1/6/99	
16602	SOLID STA 1 - M/w #10	2											1/6/99	
16603	SOLID STA 2 - M/w #11	2											1/6/99	
16604	Bella M/w #13 #14	2											1/6/99	
16605	NBF M/w #15-16	2											1/6/99	

REMARKS

Relinquished by: <i>[Signature]</i>	Date: 01-08-99	Times: 0855	Received by: <i>[Signature]</i>
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

**Environmental Lab of Texas, Inc.** 12600 West I-20 East Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

**V.A. VICE - Whole Earth**  
 Project Manager: 11503<sup>rd</sup> - 398-6509 OFF  
 TYPICARY OIL & GAS

Phone #: 1-800-854-4358  
 FAX #:

Company Name & Address

Tatum, New Mexico 88267

Project #:

Project Name:

Project Location:

Supplier Signature:

*Debra A. Que*

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

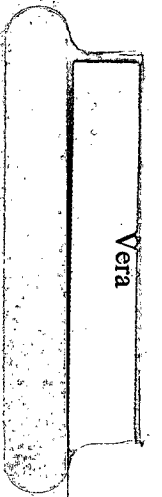
ANALYSIS REQUEST

TCLP Metals Ag As Ba Cd Cr Pb Hg Se	
TCLP Metals Ag As Ba Cd Cr Pb Hg Se	
TCLP Volatiles	
TCLP Semi Volatiles	
TDS	
RCI	
TPH 418.1	
BTEX 8020/5030	

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD			SAMPLING		
				WATER	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER
16581	Sohio ST#1 #17-18	2									1/7/99	
16582	Sohio STA #18-20	2									1/7/99	
16583	GS STATE #19-21	2									1/7/99	
16584	SATELITE #4 #19-23	2									1/6/99	

REMARKS

Relinquished by:	Date:	Times:	Received by:
<i>[Signature]</i>	01-08-99	0855	<i>[Signature]</i>
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:



**Monitor Well # 5**

**Vera # 1**

**Sampling Results**

Lab. #	12487	13184	14061	14660	15592	16599
Sample Date	9/5/97	12/3/97	2/23/98	6/25/98	10/1/98	1/6/99
Benzene	0.003	0.002	0.003	0.007	0.003	0.002
Toluene	0.002	0.001	0.001	0.006	0.003	0.002
Ethylbenzene	0.002	0.003	0.001	0.005	0.001	0.001
m,p Xylene	0.010	0.014	0.004	0.011	0.004	0.004
o Xylene	0.002	0.005	0.002	0.008	0.004	0.002
Total Xylene	0.012	0.019	0.006	0.019	0.008	0.006
Total BTEX	0.019	0.025	0.011	0.037	0.015	0.011

Monitor Well # 5

