1R - 262

REPORTS

DATE:

2/16/1999

Tipperary
CORPORATION

633 Seventeenth Street
Suite 1550
Denver, Colorado 80202

FEB 22

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

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.

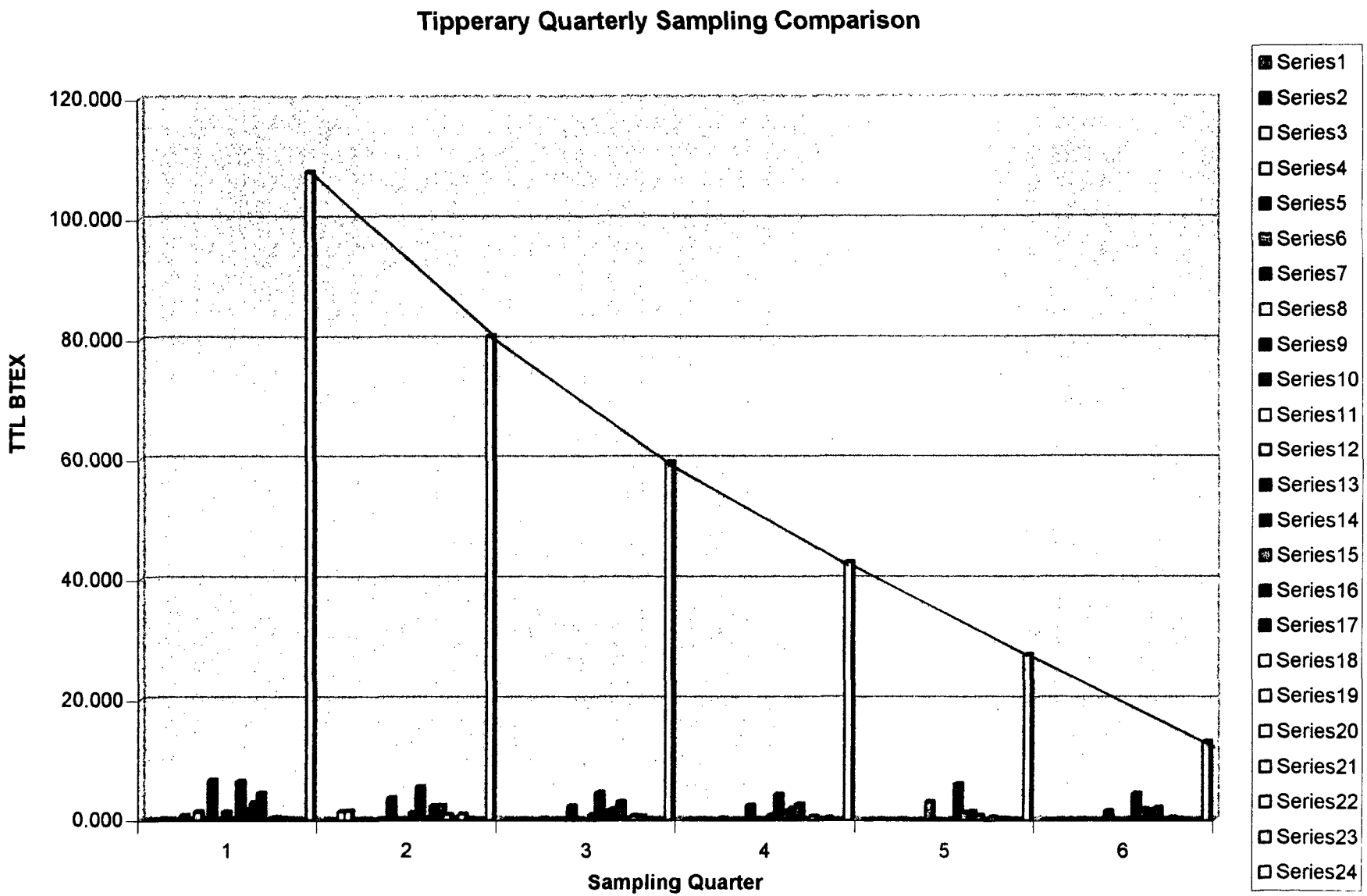
GS State # 1
Monitor Wells # 12, 21, 22
Monitor well # 12 continues to contain free product. BTEX concentrations in wells 21 & 22 are trending downward though not as sharply as similar sites. Well # 12 should be evaluated for potential as a source well. A delineation well is required for this site.

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

Tipperary Corporation
Tatum Pit Closure Project
Quarterly Sampling Comparison

Well #	9/5/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99
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
	107.873	80.628	59.517	42.903	27.480	13.023


Tipperary Quarterly Sampling Comparison
TTL BTEX
120.000
100.000
80.000
60.000
40.000
20.000
0.000
1
2
3
4
5
6
Sampling Quarter
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	0.876	0.136	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 Sat. M/W #20	0.341	0.010	0.005	0.026	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	Iva Com. M/W #1	0.003	0.001	<0.001	0.002	0.004
16596	Iva 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 #9	0.026	0.001	0.003	0.003	<0.001
16603	Sat. 4 M/W #9	0.034	0.003	0.006	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	0.016	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	1.63	1.49	0.182	0.728	0.350
16609	NBF M/W #16	1.47	0.122	0.047	0.144	0.062
	% 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

Raland K Tuttle

Raland 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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

V.A. Vice 7. Whole Earth

Project Manager: Tipperary Oil & Gas

Phone #: 1-800-854-4358

FAX #: 505-398-6509

Company Name & Address: Tatum, N. Mex #88267

Project #: M/W

Project Name:

Project Location: Tatum, N. Mex

Sampler Signature: D.A. Vice

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021/5030	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
16595	IVA Com. M/W #1 #2	2												1/6/99									
16596																							
16597	Mable Com. " #3 #4	2												1/6/99									
16598																							
16599	Vera #M/W #5	2												1/6/99									
16600	Bell A M/W #6	2												1/6/99									
16601	NBN M/W #7	2												1/6/99									
16602	NBF M/W #8	2												1/6/99									
16603	Satilite 4-M/W #9	2												1/6/99									
16604	Solo St #1 — M/W #10	2												1/7/99									
16605	Solo St A - M/W #11	2												1/7/99									
16606																							
16607	Bell A M/W #13 #14	2												1/6/99									
16608																							
16609	NBF M/W # 15-16	2												1/6/99									

Relinquished by:	Date:	Times:	Received by:
	01-08-99	0855	J McMurrey
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: V.A. Vice - Whole Earth "505"-398-6509 Off
Phone #: 1-800-854-4358
Company Name & Address: Tipperary Oil & Gas
FAX #:
Tatum, New Mexico 88267
Project #:
Project Name:
Project Location:
Sampler Signature: Victor A. Vice

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8020/5030	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
16587	Sohio State #17-18	2												1/7/99									
16588	Sohio STA M/O #19-20	2												1/7/99									
16589	GS State M/O #21-22	2												1/7/99									
16590	SaTellite #4 M/O 23 #24	2												1/6/99									
16591																							
16592																							
16593																							
16594																							

Relinquished by:	Date:	Time:	Received by:
	01-08-99	0855	
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

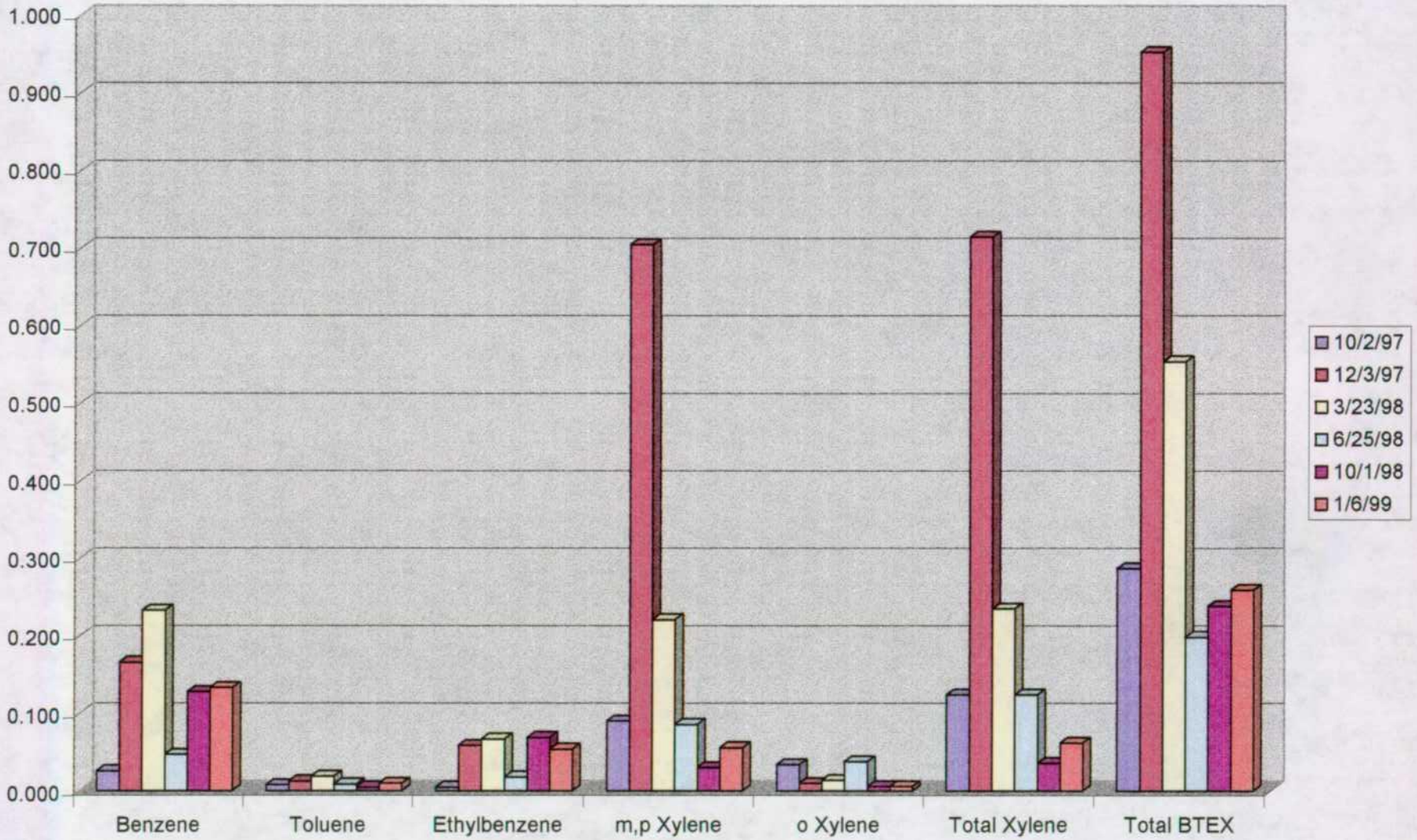
REMARKS

F.02

Monitor Well # 21
G.S. State # 1
Sampling Results

Lab. #	12721	13185	14055	14675	15603	16591
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99
Benzene	0.026	0.166	0.233	0.047	0.128	0.133
Toluene	0.008	0.013	0.019	0.009	0.005	0.010
Ethylbenzene	0.005	0.059	0.067	0.018	0.069	0.054
m,p Xylene	0.090	0.705	0.221	0.086	0.030	0.056
o Xylene	0.034	0.01	0.014	0.038	0.006	0.006
Total Xylene	0.124	0.715	0.235	0.124	0.036	0.062
Total BTEX	0.287	0.953	0.554	0.198	0.238	0.259

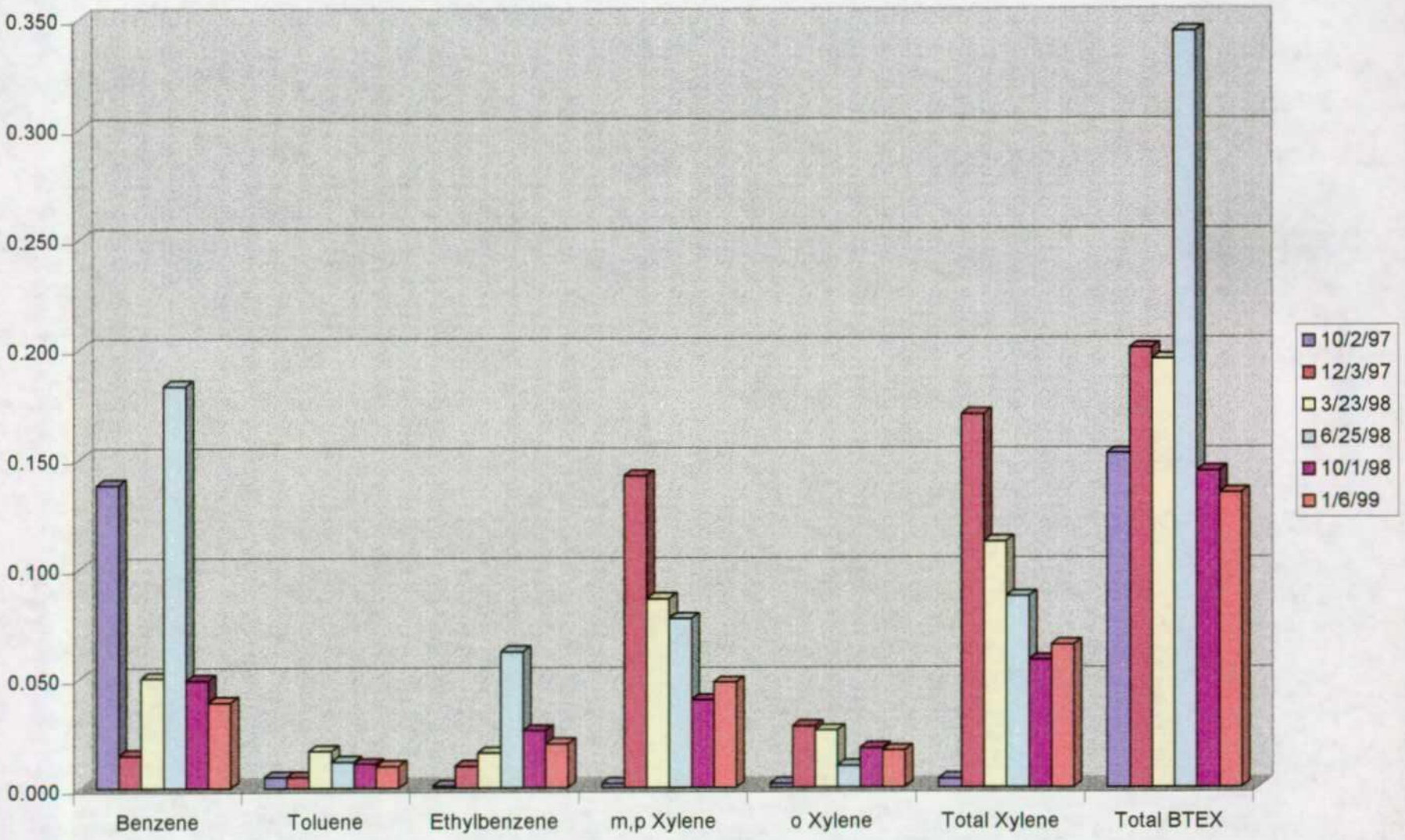
Monitor Well # 21



Monitor Well # 22
G.S. State # 1
Sampling Results

Lab. #	12722	13134	14056	14676	15611	16592
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99
Benzene	0.138	0.015	0.05	0.183	0.049	0.039
Toluene	0.005	0.005	0.017	0.012	0.011	0.01
Ethylbenzene	0.001	0.010	0.016	0.062	0.026	0.020
m,p Xylene	0.002	0.142	0.086	0.077	0.040	0.048
o Xylene	0.002	0.028	0.026	0.010	0.018	0.017
Total Xylene	0.004	0.170	0.112	0.087	0.058	0.065
Total BTEX	0.152	0.200	0.195	0.344	0.144	0.134

Monitor Well # 22



1R - 262

REPORTS

DATE:

11/20/1998

Tipperary
CORPORATION

633 Seventeenth Street
Suite 1550
Denver, Colorado 80202

November 20, 1998

CERTIFIED MAIL

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

RECEIVED
1998
Environmental Bureau
Oil Conservation Division

RE: Tatum Pit Closure Project
Fifth Quarterly Progress Report
Sample Date of October 1,1998
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 October 1, 1998. These samples represent the fifth quarter of monitoring. The total BTEX concentrations continue to decline. The Vera and Iva Com monitor wells now have at least four consecutive quarters of acceptable concentrations. We will continue to analyze water samples quarterly from the other monitor wells.

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

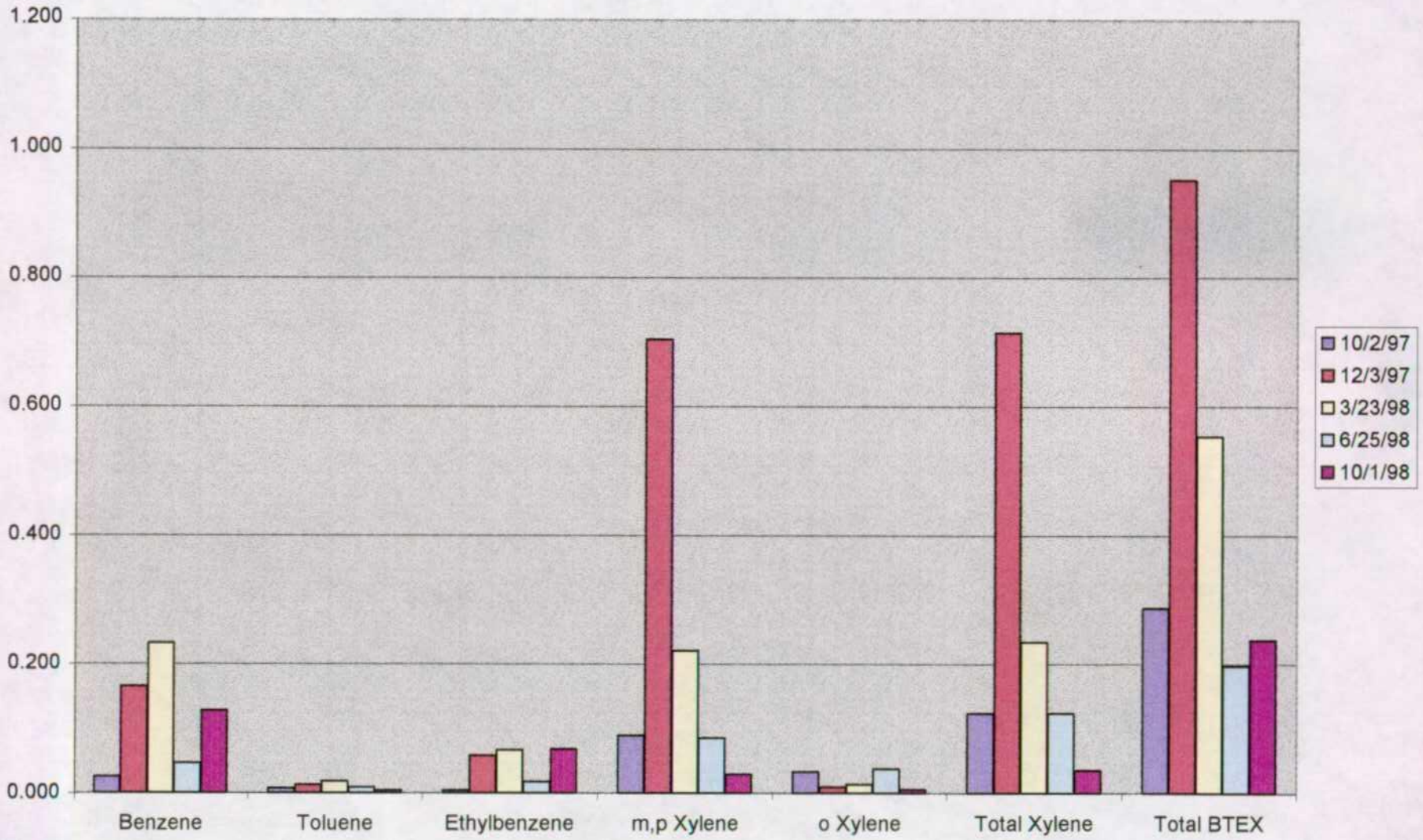
Tipperary
CORPORATION

TATUM PIT CLOSURE PROJECT
LEA COUNTY, NM
FIFTH QUARTERLY PROGRESS REPORT
SAMPLE DATE OF 10/1/98

Monitor Well # 21
G.S. State # 1
Sampling Results

Lab. #	12721	13185	14055	14675	15603
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98
Benzene	0.026	0.166	0.233	0.047	0.128
Toluene	0.008	0.013	0.019	0.009	0.005
Ethylbenzene	0.005	0.059	0.067	0.018	0.069
m,p Xylene	0.090	0.705	0.221	0.086	0.030
o Xylene	0.034	0.01	0.014	0.038	0.006
Total Xylene	0.124	0.715	0.235	0.124	0.036
Total BTEX	0.287	0.953	0.554	0.198	0.238

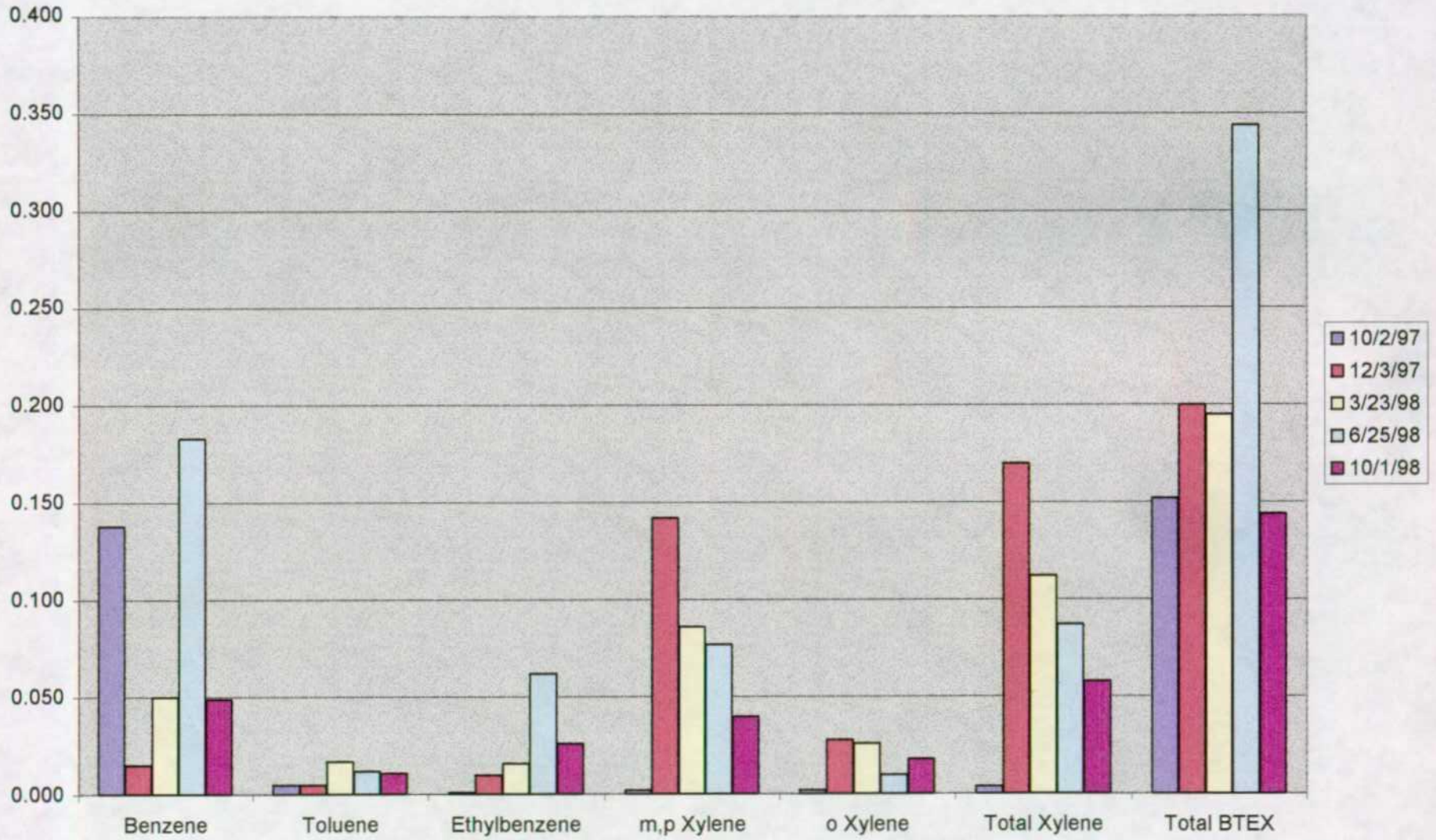
Monitor Well # 21



Monitor Well # 22
G.S. State # 1
Sampling Results

Lab. #	12722	13134	14056	14676	15611
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98
Benzene	0.138	0.015	0.05	0.183	0.049
Toluene	0.005	0.005	0.017	0.012	0.011
Ethylbenzene	0.001	0.010	0.016	0.062	0.026
m,p Xylene	0.002	0.142	0.086	0.077	0.040
o Xylene	0.002	0.028	0.026	0.010	0.018
Total Xylene	0.004	0.170	0.112	0.087	0.058
Total BTEX	0.152	0.200	0.195	0.344	0.144

Monitor Well # 22



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: 09/30/98
Sample Type: Water
Project : None Given
Project Location: Tatum, New Mexico

Analysis Date: 9/30 & 10/01/98
Sampling Date: 09/29/98
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)
15590	Iva Com M/W #1	0.004	0.004	0.002	0.006	0.007
15591	Mable Com M/W #3	0.010	0.015	0.010	0.041	0.017
15592	Vera M/W #5	0.003	0.003	0.001	0.004	0.004
15593	Bell A M/W #6	0.130	0.002	0.003	0.004	0.002
15594	NBN M/W #7	0.006	0.007	0.001	0.006	0.003
15595	NBF M/W #8	0.005	0.004	0.001	0.004	0.004
15596	Satelite #4 M/W #9	0.036	0.002	0.006	0.003	0.001
15597	Sohio St. #1 M/W #10	2.541	0.106	0.182	0.167	0.098
15598	Sohio St. "A" M/W #11	0.070	0.010	0.003	0.014	0.011
15599	Bell A M/W #13	0.003	0.002	0.002	0.004	0.002
15600	NBF M/W #15	3.027	1.630	0.225	0.811	0.393
15601	Sohio St. #1 M/W #17	0.872	0.105	0.071	0.242	0.129
15602	Sohio St. "A" M/W #19	0.033	0.015	0.005	0.018	0.011
15603	G.S. State M/W #21	0.128	0.005	0.069	0.030	0.006
15604	Satelite #4 M/W #23	0.048	0.023	0.001	0.004	0.002
15605	Iva Com M/W #2	0.003	0.002	<0.001	0.003	0.001
15606	Mable Com M/W #4	0.007	0.002	<0.001	0.002	0.001
15607	Bell A M/W #14	0.175	0.002	0.001	0.002	0.001
15608	NBF M/W #16	1.046	0.065	0.037	0.100	0.039
15609	Sohio St. #1 M/W #18	0.542	0.072	0.025	0.093	0.054
15610	Sohio St. "A" M/W #20	0.464	0.011	0.008	0.045	0.011
15611	G.S. State M/W #22	0.049	0.011	0.026	0.040	0.018
15612	Satelite #4 M/W #24	0.002	0.001	<0.001	0.002	<0.001
	% IA	100	94	91	90	95
	% EA	98	97	93	91	93
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030

Raland K. Tuttle

10-5-98
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Vic Vice

Phone #: 505-398-6507

FAX #: 505-398-6510

Company Name & Address: Tipperary Oil & Gas

1-800-854-4358 "Whole Earth. "Mike"

Project #:

Project Name:

Project Location: Tatum, New Mexico

Sampler Signature: D.A. Vice

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME
15590	IUA Com M/W #1 ~~#2~~	1												9-29-98	
15591	Mable Com M/W # 3 ~~#4~~	1													
15592	Vera # M/W #5	1													
15593	Bell A M/W #6	1													
15594	NBN M/W. #7	1													
15595	NBF M/W #8	1													
15596	SATILITE #4 M/W #9	1													
15597	Sohio ST. #1 M/W #10	1													
15598	Sohio ST "A" M/W #11	1													
15599	Bell A M/W #13 ~~#14~~	1													
15600	NBF M/W #15 ~~#16~~	1													

ANALYSIS REQUEST

BTEX 8120/5030	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

Relinquished by:	Date:	Times:	Received by:
[signature]	09-30-98	0855	[signature]
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Vic Vice

Phone #: 505-398-6507
FAX #: 505-398-6510

Company Name & Address: Tipperary Oil & Gas

or 1-800-854-4358 Wilde Earth "Mike"

Project #:

Project Name:

Project Location: Tatum, New Mexico

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME
15601	Sohio St #1 M/W #17 ~~#18~~	1		X							X			9-29-98	
15602	Sohio St "A" M/W #19 ~~#20~~	1		X							X				
15603	G.S. State M/W #21 - ~~#22~~	1		X							X				
15604	Satellite #4 - M/W #23 ~~#24~~	1		X							X				
15605	Iva Com M/W #2	1		X							X				
15606	Mable Com M/W #4	1		X							X				
15607	Bell A M/W #14	1		X							X				
15608	NBF M/W #16	1		X							X				
15609	Sohio St #1 M/W #18	1		X							X				
15610	Sohio St "A" M/W #20	1		X							X				
15611	GS State M/W #22	1		X							X				
15612	Satellite #4 M/W #24	1		X							X				

ANALYSIS REQUEST

BTEX 8120/5030 | 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

Relinquished by:	Date:	Times:	Received by:
[signature]	09-30-98	0855.	J McMurrey
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS