1R - 268

REPORTS

DATE:

2002

1R268

RECEIVED
MAR 07 2002
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

To: Bill Olson / NMOCD

From: Mike Griffin / Whole Earth Environmental, Inc.

Date: February 23, 2002

Subject: Tatum Pit Closure Project
Your Letter February 13, 2002

Thank you for the reminder regarding our Work Plan for the Bagley Field Pit Closure Project.

Our work plan for the project is to drill a total of six additional delineation wells at the proposed locations referenced in Exhibits 1-6. The 2" wells will be drilled to a minimum depth of 15' below the upper water interface. Slotted casing will go from the bottom of the well to a distance of 10' above the water table as determined at the time of drilling. The slotted casing will be sand packed below a bentonite seal. The well bore will be grouted to surface and a locking cap installed. (Reference: Exhibit 7).

Rather than setting a separate reporting schedule for these wells, we propose to include the results of the investigation within our annual report to the OCD. We will sample each well each quarter in accordance with the sampling plan already in practice.

We will drill the wells within sixty days of your approval of this plan. If laboratory testing of the waters from any of the proposed wells reveals BTEX or chloride concentrations in excess of NMWQCC standards, we will immediately contact you.

Please don't hesitate to contact me if you've any additional questions.

Mike Griffin
Whole Earth Environmental

1/13/03 - Mike Griffin
Wells installed. Will submit in next annual report

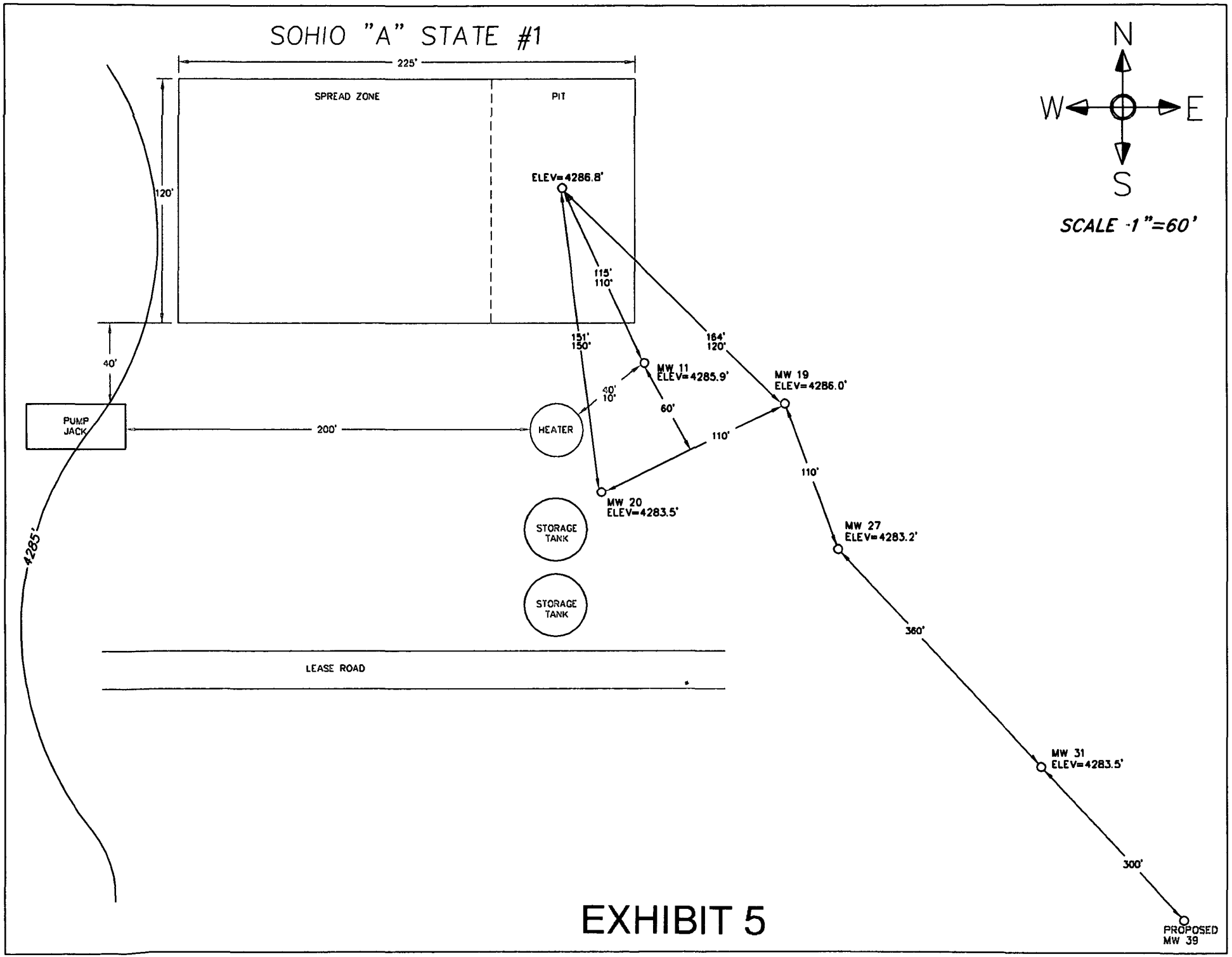

SOHIO "A" STATE #1
225'
SPREAD ZONE
PIT
120'
ELEV=4286.8'
115'
110'
151'
150'
164'
120'
40'
MW 11
ELEV=4285.9'
MW 19
ELEV=4286.0'
40'
10'
60'
110'
PUMP
JACK
200'
HEATER
110'
MW 20
ELEV=4283.5'
MW 27
ELEV=4283.2'
STORAGE
TANK
STORAGE
TANK
360'
4285'
LEASE ROAD
MW 31
ELEV=4283.5'
300'
PROPOSED
MW 39
N
W
E
S
SCALE -1"=60'

EXHIBIT 5

Exhibit Index

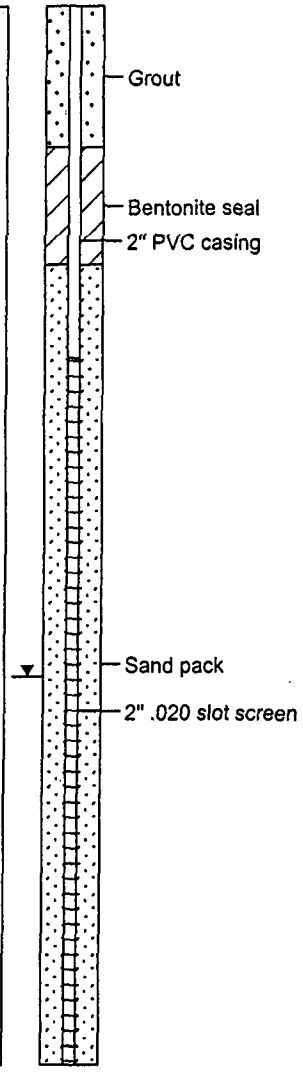
Atkins Engineering Associates, Inc. 2904 W. 2nd St., Roswell, NM 88202-3156	LOG OF BORING Rice Operating MW-3 (Page 2 of 2)

Whole Earth Environmental
19606 San Gabriel
Houston, TX 77084
Contact: Mike Griffin
Job#: EUNICEG.MWD.01

Date	: 05-08 & 05-09-01	Site Location	: SE Eunice, NM
Drill Start	: a.m.		: Sec. 15, T22S, R37E
Drill End	: 12:00	Auger Type	: Hollow Stem
Boring Location	: 3¼ mi SE of Eunice & ½ mi E	Logged By	: Mort Bates

Depth in Feet	GRAPHIC	USCS	Samples	DESCRIPTION	Lab	PID ppm-v
55				Sand w/ caliche, tan, firm, dry		
60		SM				
65						
70						
75		SS		Sandstone, tan, hard, dry		
80						
		SP		Sand, tan, soft, moist		
		SS		Broken sandstone, tan, firm, moist		
85				Sand, tan, soft, wet		
90		SP				
95						
100				TD 100' WL 83.55'		
105						
110						

Well: MW-3



05-14-2001 C:\MTECH46\EUNICEGMWD01\mw-3.bor

EXHIBIT 7

WHOLE EARTH ENVIROMENTAL, INC.

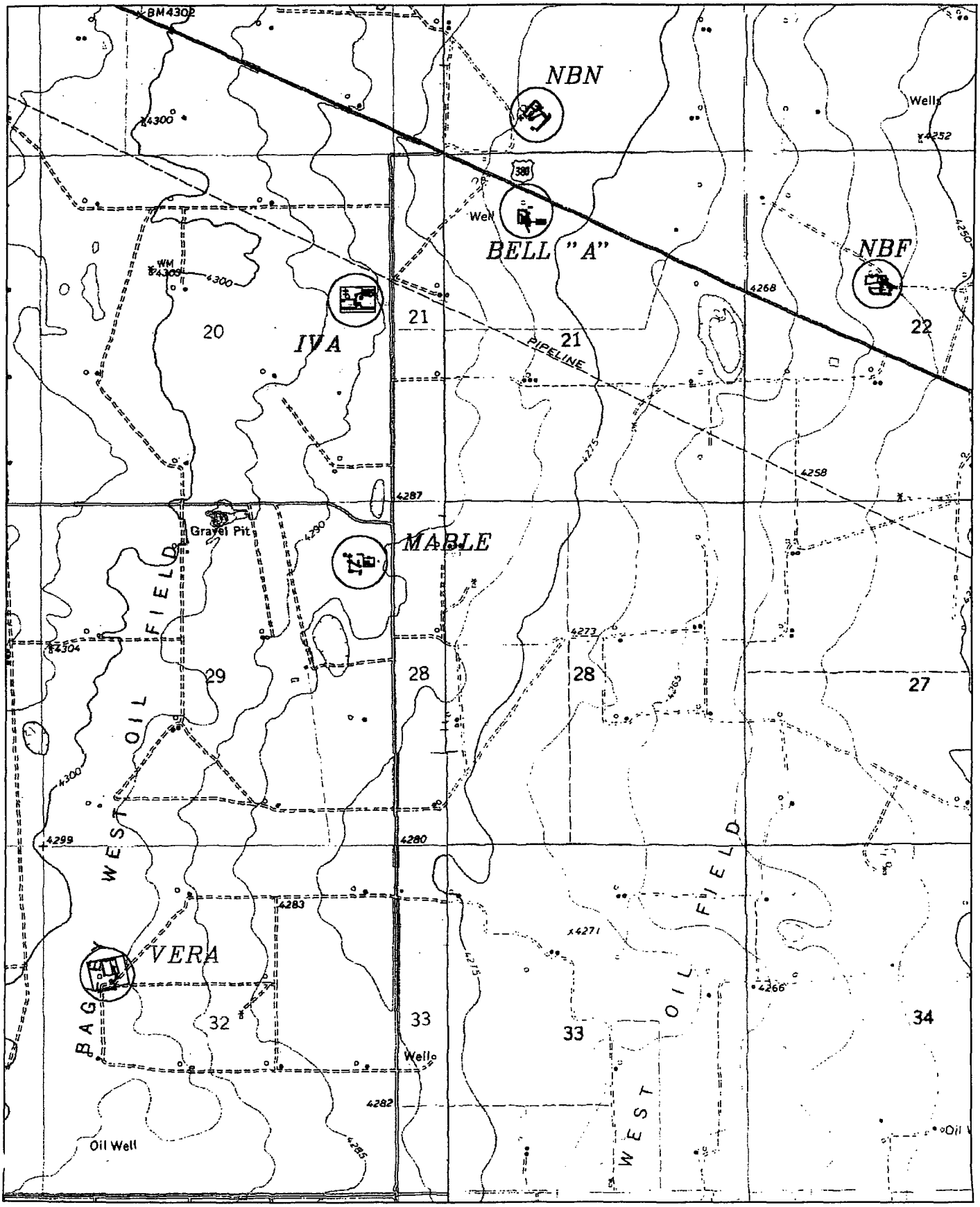


EXHIBIT 8

BASIN SURVEYS P.O. BOX 1786 – HOBBS, NEW MEXICO	W.O. Number: 9352	Drawn By: K. GOAD
	Date: 10–21–99	Disk: KJG #122 – WE9352.DWG

WHOLE EARTH ENVIROMENTAL, INC.

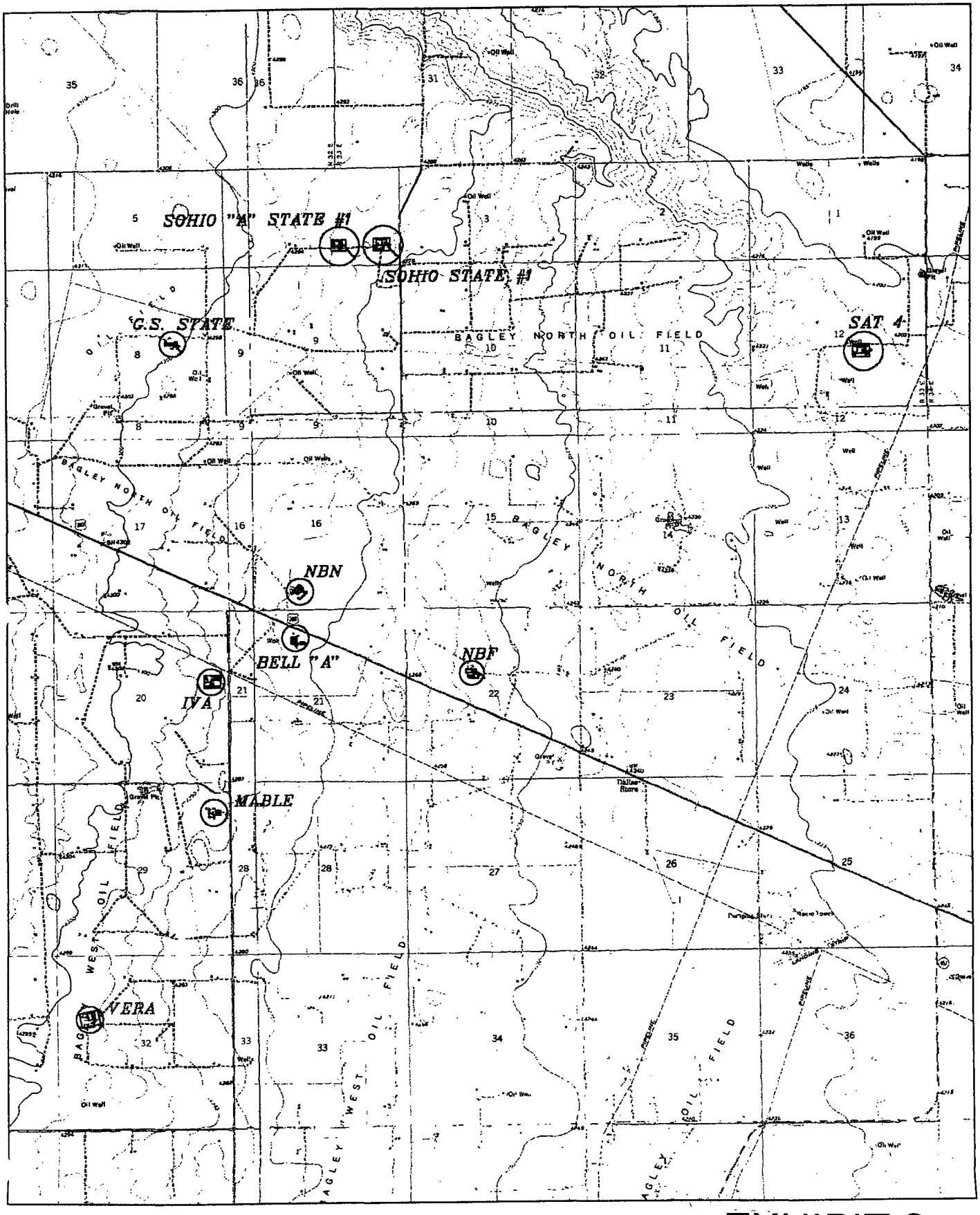


EXHIBIT 9

BASIN SURVEYS P.O. BOX 1786 – HOBBS, NEW MEXICO	W.O. Number: 9352	Drawn By: K. GOAD
	Date: 10-21-99	Disk: KJG #122 – WE9352.DWG

Tipperary
CORPORATION

633 Seventeenth Street
Suite 1550
Denver, Colorado 80202

November 14, 2001

VIA OVERNIGHT MAIL

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Progress Report for Year 2001
Tatum Pit Closure Project
Lea County, NM

Dear Mr. Olson:

Please find enclosed additional results from our monitor wells in the subject project area. This report summarizes the results from water samples taken on January 10, April 5, July 7, and September 26, 2001. These results represent the 17 quarters of monitoring. In general, we are continuing to observe decreasing levels of BTEX in the monitor wells.

The Executive Summary section contains the following:

- Summary of results by location.
- Procedure for obtaining water samples.
- Summary of water depths in each monitor well.
- Monitor well gradient chart.
- LNAPL depth chart.
- Maps of pit reclamation locations.
- Chain of custody records and lab results of the water samples by quarter.

Detailed results are presented in tabular and graphical format for each monitor well. The monitor well data is grouped by site location in the report. We will continue to sample the project quarterly and report the results to your office 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

Tipperary CORPORATION

Tipperary Corporation
September 2001
Sampling Results
Annual Report

Whole Earth Environmental
19606 San Gabriel
Houston, Tx. 77084

Executive Summary
Tipperary Corporation
Water Monitoring Program

Site History

In response to a request by a 1996 request by the NMOCD, Tipperary Corporation began a program to close a series of ten surface impoundments located within their Bagley Field west of Tatum, New Mexico. The closure program consisted of excavating the impoundments and encapsulating the contaminant plume within high-density polyethylene. As part of the closure program, a groundwater investigation was conducted at each site. The investigation concluded that due to the relatively shallow depth to the surface of the aquifer, each site impacted the Ogallala Aquifer to varying degrees.

The remediation plan included passive monitoring of those sites showing no free product on the water table and active fluid removal by means of the erection of windmills at three sites found to have more significant concentrations. A series of water monitoring wells were placed down gradient of each location. Each such well has been sampled and tested on a quarterly basis with the results of each laboratory analyses provided to the NMOCD on an annual basis. To date, two sites have been remediated to closure and a third is pending final approval.

Individual Site Descriptions

Iva COM

The Iva site includes a recovery well. Criteria contaminant concentrations within the well have shown a 94% reduction since installation and a 48% reduction over the past year. A review of the test results over the past three years indicates that the contaminant concentrations appear to be reduced at the rate of approximately 50% per year. If the trend continues, the concentrations will be within NMWQCC standards within the next two years. Two down gradient monitor wells at the site have never shown concentrations in excess of standards.

Mable COM

The Mable site includes a recovery well. Criteria contaminant concentrations within the well have shown a 73% reduction since installation and a 50% reduction over the past year. The primary contaminant compounds within this well are benzene and xylene. Only the xylene and ethylbenzene fractions have shown any significant improvement over previous sampling periods within the source well. Both down-gradient monitor wells generally fall within NMWQCC standards but are subject to periodic spikes in all tested fractions. LNAPL's are present within both monitor wells but appear to have

the viscous appearance and odor characteristics of fatty acids resulting from the aerobic degradation of hydrocarbons.

Bell State "A"
This site has no active recovery well but does contain a series of four monitor wells. The criteria contaminant concentrations within these wells have collectively dropped 92% from the initial concentrations however have shown no significant improvement over the past year. Benzene is the only fraction falling outside of NMWQCC standards.

NBF
This site has no active recovery well but does contain a series of four monitor wells. The criteria contaminant concentrations within these wells have collectively dropped 16% from the initial concentrations however have shown no significant improvement over the past year. Monitor wells nos. 15 and 16 continue to show elevated benzene concentrations and occasional spikes of xylene.

G.S. State
The G.S. site has an active recovery well and four down gradient monitor wells. The contaminant concentrations within the recovery well have been reduced by 78% over the life of the installation however the concentrations within the monitor wells have remained somewhat static. We introduced a program last year of installing absorbent socks within those wells having LNAPL's. The program did show significant reductions within those bores in which they were used however the BTEX concentrations came back to previous levels when their use was discontinued.

Sohio # 1
This site has no active recovery well but does contain a series of five monitor wells. The general trend within these wells is for an overall reduction in BTEX values-especially if the most recent results within Monitor Well # 18 are ignored due to our inability to bail a sufficient volume of fluids as a result of silting. Once again the absorbent sock program introduced last year proved effective until discontinued.

Sohio "A"
This site has no active recovery well but does contain a series of five monitor wells. The site has a gradient of .58' per 100' distance and may be considered quite static hydrologically. The BTEX concentrations have once again increased with the cessation of the absorbent sock program.

QP-78

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Obtaining Water Samples (Cased Wells) Using Enviro-Tech ES-60 Pump

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_3	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 Lower the ES-60 pump into the monitor well bore taking care to insure that the pump and first 10' of hose and cable does not touch the ground or become cross-contaminated by contact with anything containing hydrocarbon residues. When the pump reaches the bottom of the well bore you will feel the hose and cable assembly go slack. Lift the pump a minimum distance of 18" above the bottom of the well bore and clamp the hose assembly to the top of the well bore by means of vice grips. (Take care to insure that the vice grips are adjusted so as not to "choke" the hose.

5.3 Attach the electrical cable leads to an automobile battery and begin pumping the well bore. If the pump does not bring fluid to the surface within one minute, disconnect the electrical leads, and re-connect for four seconds three times to remove air cavitation.

5.4 The pump has a minimum volume of 2.8 gallons per minute at 60'. Purge the well by pumping for a minimum of 10 minutes before taking a sample.

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 Decontamination

7.1 After removing the pump from the well, use an aerosol spray pump bottle filled with denatured isopropyl alcohol to clean the pump and first 10' of the cable and hose assembly. Rinse the sprayed portion with distilled water to remove the alcohol and dry with a clean rag. Discard the rag after each use. During transport, the pump assembly should be carried in a 2" PVC protective sleeve.

8.0 Documentation

8.1 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

Tipperary Corporation

Tatum Bagley Field

Monitor Well Depth to Water Chart

Well Name	Well No.	Water Depth 8/9/99	Water Depth 10/21/99	Water Depth 1/8/00	Water Depth 4/13/00	Water Depth 7/20/00	Water Depth 9/26/00	Water Depth 1/5/01	Water Depth 4/5/01	Water Depth 7/5/01	Water Depth 9/26/01
Iva COM	Source Well										
	1	48.8	51.8	51.7	51.6	51.7	51.8	51.8	51.7	51.8	51.7
	2	49.2	51.5	51.4	51.5	51.6	51.7	51.8	51.7	51.8	51.8
Mable COM	Source Well										
	3	48.8	52.5	52.4	53.7	53.7	53.7	51.6	51.7	51.8	51.9
	4	48.6	51.8	51.6	52.8	51.8	51.8	51.8	51.7	51.6	51.6
Bell State	6	42.1	43.0	51.6	44.3	44.4	44.5	44.6	44.5	44.4	44.3
	13	40.8	43.7	43.7	44.0	43.9	44.0	44.1	44.0	44.0	43.9
	14	43.0	43.5	44.2	44.2	44.3	44.2	44.3	44.2	44.1	44.1
	25	43.5	43.5	43.9	44.0	44.0	44.0	44.2	44.0	43.9	43.8
NBF	8	35.8	35.8	36.1	37.1	35.6	35.9	36.1	36.1	36.1	36.0
	15	34.8	37.0	37.1	37.9	37.5	36.3	36.3	36.1	36.2	36.0
	16	36.0	36.1	36.2	36.2	36.2	36.2	36.2	36.1	36.2	36.0
	26	34.8	34.6	34.9	35.9	35.1	35.2	35.2	35.4	35.6	35.8
Sohio A	11	38.3	38.5	37.8	38.3	38.3	38.8	38.7	37.5	36.8	35.6
	19	32.5	35.2	37.9	38.2	38.3	38.4	38.4	38.4	38.4	38.3
	20	38.0	38.7	38.0	38.4	38.5	38.4	38.5	38.5	38.6	38.6
	27	36.8	38.2	37.9	38.2	38.1	38.6	38.7	38.5	38.3	38.1
	31	37.5	38.9	39.7	38.5	38.5	38.1	38.4	38.6	38.6	38.8
Sohio # 1	10	44.5	44.9	43.9	44.2	45.0	44.9	45.1	45.0	45.0	44.9
	17	44.0	44.5	44.4	44.7	44.5	44.7	44.8	44.6	44.5	44.4
	18	43.8	44.1	45.4	46.4	45.7	45.4	45.8	46.0	45.9	46.6
	28	35.0	44.2	45.8	44.9	44.9	45.1	45.1	45.1	45.2	45.0
	30	45.3	44.1	44.2	44.8	44.3	44.3	44.3	44.2	44.3	44.2
G.S. State	Source Well										
	12	42.8	42.9	44.1	43.2	44.7	44.2	44.2	44.6	44.8	45.1
	21	43.3	43.7	43.9	44.0	44.2	44.3	44.3	44.2	44.3	44.2
	22	43.5	43.9	44.0	44.0	44.0	44.1	44.2	44.2	44.2	44.1
	29	44.0	44.3	44.2	44.3	44.7	44.7	44.7	44.5	44.6	44.4

Tipperary Corporation

Tatum Bagley Field

Monitor Well Gradient Chart

Well Name	Well No.	Surface Elevation	Water Elevation	Distance to Pit Center	Gradient (Ft. / Ft.)	Gradient (Ft. / 100Ft.)
Iva COM	Source Well	4,298.42	4,246.42			
	1	4,292.10	4,237.20	115.00	0.080174	8.02
	2	4,291.93	4,238.93	140.00	0.053500	5.35
Mable COM	Source Well	4,290.55	4,238.55			
	3	4,287.22	4,235.22	148.00	0.022500	2.25
	4	4,287.86	4,235.46	160.00	0.019313	1.93
Bell State	6	4,281.12	4,230.12	93.00	0.021183	2.12
	13	4,280.84	4,233.04	51.00	0.044118	4.41
	14	4,280.80	4,232.50	47.00	0.048723	4.87
	25	4,280.37	4,232.97	154.00	0.017662	1.77
NBF	8	4,259.41	4,211.41	165.00	0.045152	4.52
	15	4,259.68	4,212.68	198.00	0.036263	3.63
	16	4,259.06	4,211.96	247.00	0.031579	3.16
	26	4,258.04	4,215.04	387.00	0.022791	2.28
Sohio A	11	4,285.88	4,235.88	115.00	0.011835	0.83
	19	4,285.97	4,237.27	164.00	0.005305	0.53
	20	4,285.96	4,236.46	151.00	0.005822	0.58
	27	4,285.61	4,245.61	264.00	0.004659	0.47
	31	4,283.54	4,246.09	624.00	0.005288	0.53
Sohio # 1	10	4,283.63	4,233.63	110.00	0.016273	1.63
	17	4,283.31	4,233.91	262.00	0.000805	0.81
	18	4,283.59	4,234.99	176.00	0.010398	1.04
	28	4,283.21	4,236.96	552.00	0.004004	0.40
	30	4,281.13	4,235.82	776.00	0.005528	0.55
G.S. State	Source Well	4,307.00	4,259.00			
	12	4,303.27	4,255.27	52.00	0.071731	7.17
	21	4,303.08	4,255.08	151.00	0.025960	2.60
	22	4,302.77	4,255.27	148.00	0.025203	2.52
	29	4,303.20	4,254.14	295.00	0.016475	1.65

Calculation for Determining the Minimum Bailing Volume for Monitor Wells
Formula $V = (\pi r^2 h)$

V= volume
π= pi
r= inside radius of the well bore
h= maximum height of well bore in water table

π	r^2	h (in)	V (cu. in)	V (gal)	X 3 Volumes	Actual
3.1416	1	180	565.488	2.448	7.344	>10

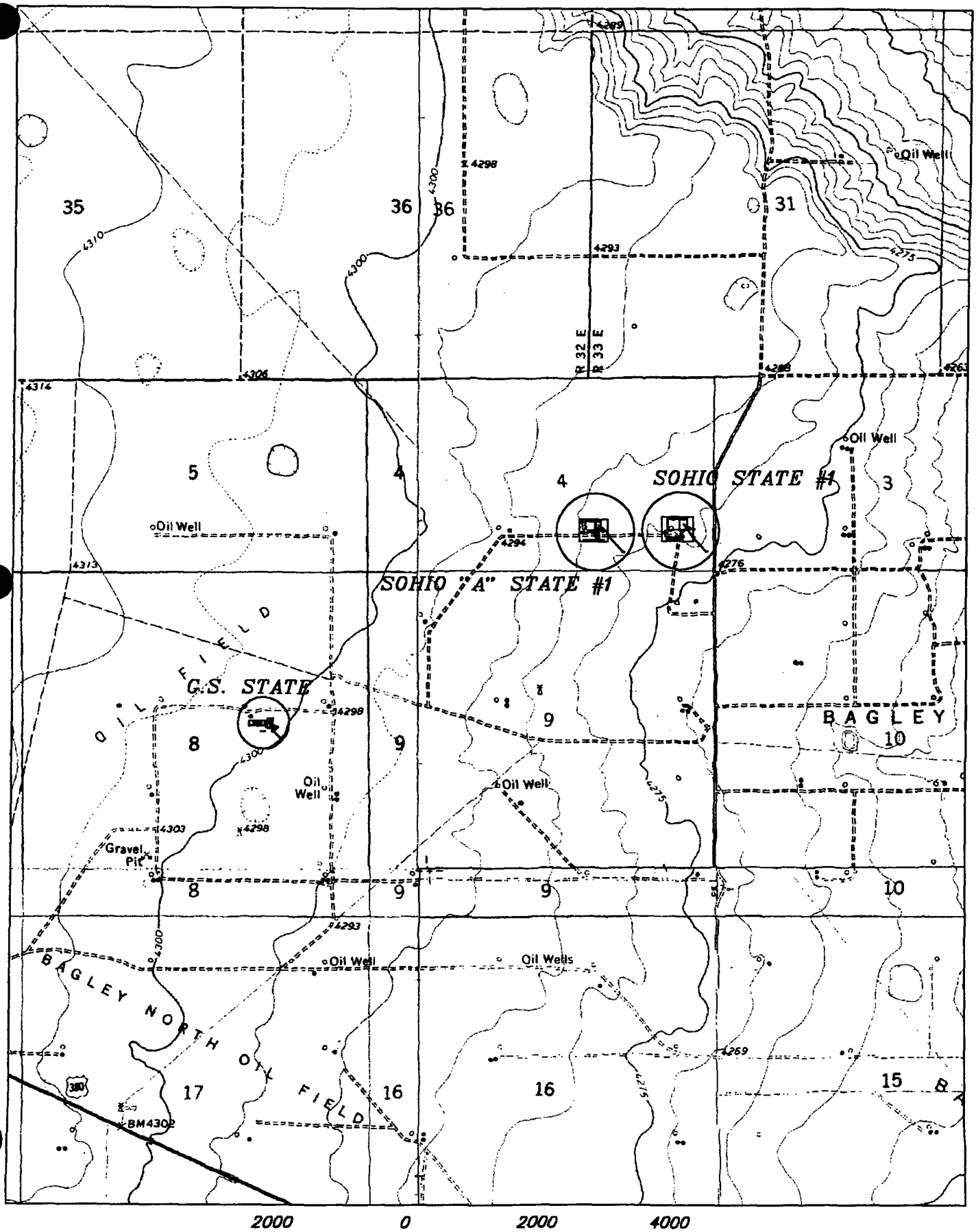
Tipperary Corporation

Tatum Bagley Field

LPNAL / DNAPL Depth Chart

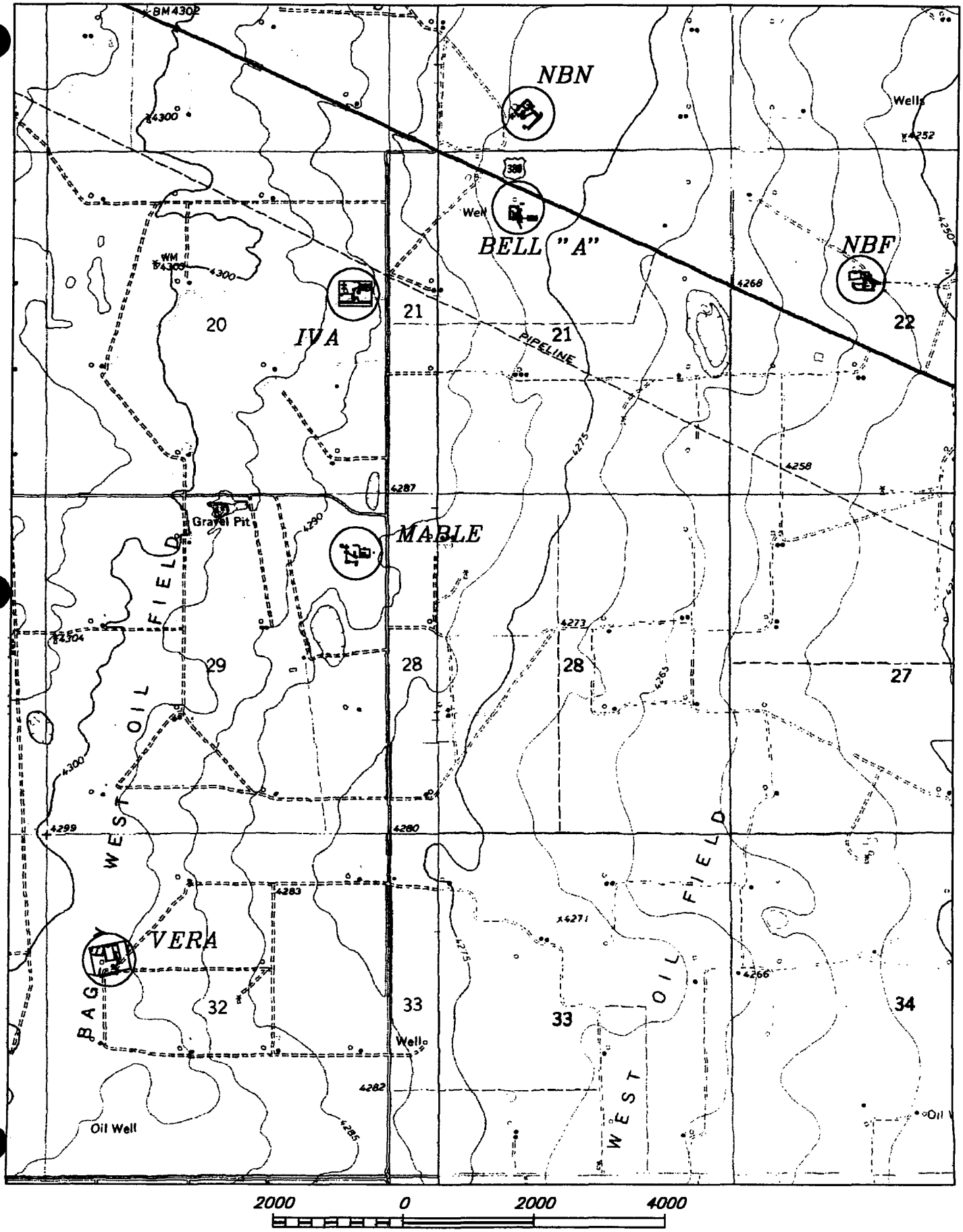
Well Name	Well No.	LNAPL Top	LNAPL Bottom	LNAPL Thickness	DNAPL Top	DNAPL Bottom
Iva COM	Source Well					
	1	N / A	N / A	N / A	N / A	N / A
	2	N / A	N / A	N / A	N / A	N / A
Mable COM	Source Well					
	3	51.90	52.60	0.70	N / A	N / A
	4	51.60	51.90	0.30	N / A	N / A
Bell State	6	N / A	N / A	N / A	N / A	N / A
	13	N / A	N / A	N / A	N / A	N / A
	14	N / A	N / A	N / A	N / A	N / A
	25	N / A	N / A	N / A	N / A	N / A
NBF	8	N / A	N / A	N / A	N / A	N / A
	15	36.00	36.15	0.15	N / A	N / A
	16	36.00	36.15	0.15	N / A	N / A
	26	N / A	N / A	N / A	N / A	N / A
Sohio A	11	35.60	36.20	0.60	N / A	N / A
	19	38.30	38.70	0.40	N / A	N / A
	20	38.60	38.70	0.10	N / A	N / A
	27	N / A	N / A	N / A	N / A	N / A
	31	N / A	N / A	N / A	N / A	N / A
Sohio # 1	10	44.90	45.00	0.10	N / A	N / A
	17	44.40	44.55	0.15	N / A	N / A
	18	46.60	46.70	0.10	N / A	N / A
	28	N / A	N / A	N / A	N / A	N / A
	30	N / A	N / A	N / A	N / A	N / A
G.S. State	Source Well					
	12	45.10	46.20	1.10	N / A	N / A
	21	44.20	45.10	0.90	N / A	N / A
	22	44.10	44.90	0.80	N / A	N / A
	29	44.40	44.55	0.15	N / A	N / A

WHOLE EARTH ENVIROMENTAL, INC.



BASIN SURVEYS P.O. BOX 1786 – HOBBS, NEW MEXICO	W.O. Number: 9352	Drawn By: K. GOAD
	Date: 10-21-99	Disk: KJG #122 – WE9352.DWG

WHOLE EARTH ENVIROMENTAL, INC.



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	Date: 10–21–99	Disk: KJG #122 – WE9352.DWG

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Elliot Werner
Company Name: Whole Earth
Company Address:
City/State/Zip:
Telephone No: (800) 854-4358
Fax No:
Sampler Signature:

Project Name: Jipperary
Project #: Quarterly Sampling
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP/TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
36195	IUA Com. Source Well	1-10-01	4:PM	2	X		X					X											X	

Special Instructions:

Sample Containers Intact? Y / N
Temperature Upon Receipt: 4.0°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	1/11/01	9:45AM			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				01-11-01	0945

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ELLIOT WEBNER
Company Name: Whole Earth ENV
Company Address:
City/State/Zip:
Telephone No:
Fax No:
Sampler Signature:

Project Name: TIPPERARY
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
36132	MW 3	1/5	8:25	2	✓		✓					✓											✓	
36133	MW 1	1/5	9:00am	2	✓		✓					✓											✓	
36134	MW 2	1/5	9:00am	2	✓		✓					✓											✓	
36135	MW 4	1/5	8:45am	2	✓		✓					✓											✓	
36136	MW 6	1/5	10:10am	2	✓		✓					✓											✓	
36137	Mobile SOURCE	1/5	9:00am	2	✓		✓					✓											✓	
36138	MW 9	1/5	3:00pm	2	✓		✓					✓											✓	
36139	MW 12	1/5	11:25am	2	✓		✓					✓											✓	
36140	MW 13	1/5	9:50am	2	✓		✓					✓											✓	
36141	MW 14	1/5	10:00am	2	✓		✓					✓											✓	

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	1/10/01	11:00am			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				01-10-01	1120

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ELLIOT WERNER

Company Name: Whole Earth ENVIRONMENTAL

Company Address:

City/State/Zip:

Telephone No:

Fax No:

Sampler Signature:

Project Name: TIPPERARY

Project #:

Project Loc:

PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
36142	MW 11	1/5	12:40	2	✓		✓					✓											✓	
36143	MW 10	1/5	1:30	2	✓		✓					✓											✓	
36144	MW 28	1/5	2:10	2	✓		✓					✓											✓	
36145	MW 15	1/5	10:30	2	✓		✓					✓											✓	
36146	MW 24	1/5	10:45	2	✓		✓					✓											✓	
36147	MW 8	1/5	10:20	2	✓		✓					✓											✓	
36148	MW 20	1/5	12:30	2	✓		✓					✓											✓	
36149	MW 14	1/5	2:00	2	✓		✓					✓											✓	
36150	MW 21	1/5	11:55	2	✓		✓					✓											✓	
36151	MW 23	1/5	3:10	2	✓		✓					✓											✓	

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	1/10/01	11:20am			

Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanie McMurrey	01-10-01	1120

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ELLIOT WERNER
Company Name: Whole Earth Env
Company Address:
City/State/Zip:
Telephone No:
Fax No:
Sampler Signature:

Project Name: TIPPERARY
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
36152	MW 25	1/5/01	9:40	2	✓		✓					✓											✓	
36153	MW 27	1/5	1:00	2	✓		✓					✓											✓	
36154	MW 19	1/5	12:50	2	✓		✓					✓											✓	
36155	MW 17	1/5	1:45	2	✓		✓					✓											✓	
36156	MW 16	1/5	10:35	2	✓		✓					✓											✓	
36157	MW 24	1/5	9:15	2	✓		✓					✓											✓	
36158	MW 22	1/5	11:30	2	✓		✓					✓											✓	
36159	MW 29	1/5	11:45	2	✓		✓					✓											✓	
36160	GS SOURCE	1/5	11:15	2	✓		✓					✓											✓	
36161	MW 30	1/5	2:20	✓	✓		✓					✓											✓	

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	01/10/01	11:20			
Relinquished by:	**Date**	**Time**	**Received by ELOT:**	**Date**	**Time**
			Jeanne McSwain	01-10-01	1120

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ELLIOT WERNER
Company Name: WHOLE EARTH ENV.
Company Address:
City/State/Zip:
Telephone No: Fax No:
Sampler Signature:

Project Name: TIPPERARY
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030								RUSH TAT (Pre-Schedule)	Standard TAT
36162	MW31	1/5	1:15	2	✓		✓					✓											✓									

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	1/10	11:35			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				01-10-01	1135

Sample Containers Intact? Y N
Temperature Upon Receipt: 2.5°C
Laboratory Comments:

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 4.0 deg. C
Project #: Quarterly Sampling
Project Name: Tipperary
Project Location: None Given

Sampling Date: 01/10/01
Receiving Date: 01/11/01
Analysis Date: 01/11/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
36195	IUA Com. Source Well	0.533	0.168	0.015	0.067	0.044
%IA		87	87	86	91	88
%EA		86	87	87	93	91
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

1-11-01
Date

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Tipperary
Project Location: None Given

Sampling Date: 01/05/01
Receiving Date: 01/10/01
Analysis Date: 01/11/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
36132	MW 3	<0.010	1.21	1.21	5.50	0.894
%IA		87	87	86	91	88
%EA		86	87	87	93	91
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Armando O. Gomez

1-16-01
Date

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Tipperary
Project Location: None Given

Sampling Date: 01/05/01
Receiving Date: 01/10/01
Analysis Date: 01/12/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
36133	MW 1	<0.001	0.004	0.006	0.014	0.007
36134	MW 2	<0.001	0.003	0.005	0.011	0.005
36135	MW 4	<0.010	0.038	0.020	0.063	0.021
36136	MW 6	0.014	<0.001	0.005	0.007	0.003
36137	Mable Source	0.590	0.475	0.127	0.927	0.768
36138	MW 9	0.037	0.032	0.014	0.051	0.037
36139	MW 12	1.07	1.71	0.945	5.66	1.58
36140	MW 13	<0.001	0.002	0.004	0.009	0.004
36141	MW 14	0.024	<0.001	0.004	0.007	0.003
36142	MW 11	0.043	0.005	0.004	0.013	0.008
36143	MW 10	2.43	0.011	0.153	0.251	0.089
36144	MW 28	0.156	0.115	0.034	0.175	0.120
36145	MW 15	2.79	1.36	0.249	0.612	0.493
36146	MW 26	0.044	0.016	0.006	0.012	0.009
36147	MW 8	0.001	0.001	0.002	0.005	0.002
36148	MW 20	0.009	0.006	0.005	0.016	0.008
36149	MW 18	2.95	1.84	0.364	1.54	1.22
36150	MW 21	0.019	0.010	0.019	0.027	0.013
36151	MW 23	0.031	0.032	0.013	0.050	0.034
36152	MW 25	<0.001	<0.001	<0.001	<0.001	<0.001
	%IA	103	100	101	96	101
	%EA	105	98	100	97	103
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Armando O. Gomez

1-16-01
Date

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Tipperary
Project Location: None Given

Sampling Date: 01/05/01
Receiving Date: 01/10/01
Analysis Date: 01/13/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
36153	MW 27	0.355	0.004	0.003	0.020	0.009
36154	MW 19	0.248	0.002	0.002	0.006	0.003
36155	MW 17	1.42	0.036	0.140	0.428	0.287
36156	MW 16	1.32	0.023	0.083	0.110	0.055
36157	MW 24	0.004	0.004	0.002	0.008	0.005
36158	MW 22	0.140	0.036	0.057	0.092	0.085
36159	MW 29	0.019	0.010	0.010	0.034	0.014
36160	GS Source	0.805	0.292	0.136	0.692	0.414
36161	MW 30	0.036	0.030	0.009	0.036	0.026
36162	MW 31	0.130	0.004	0.003	0.010	0.005
%IA		93	90	89	86	90
%EA		100	98	98	95	100
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Armando O. Gomez

1-16-01
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____ Project Name: Quarterly Sampling

Company Name: Whole Earth Environmental, Inc. Project #: _____

Company Address: 19606 San Gabriel Project Loc: Tatum, New Mexico

City/State/Zip: Houston, Tx. 77084 PO #: _____

Telephone No: (600) 864-4358 Fax No: (281) 646-8996

Sampler Signature: _____

LAB # (Lab Use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Scheduled)	Standard TAT
38917	Iva Source Well	4-5	10:40		X		X					X											X		
38918	Iva MW 1		10:45		X		X					X											X		
38919	Iva MW 2		11:07		X		X					X											X		
38920	Mable Source Well		11:12		X		X					X											X		
38921	Mable MW 3		11:15		X		X					X											X		
38922	Mable MW 4		11:26		X		X					X											X		
38923	Bell MW 6		10:20		X		X					X											X		
38924	Bell MW 13		9:59		X		X					X											X		
38925	Bell MW 14		10:10		X		X					X											X		
38926	Bell MW 25	↓	9:44		X		X					X											X		

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5 °C
Laboratory Comments: INV. Tipperary

Relinquished by:	Date	Time	Received by:	Date	Time
M. Ch. H:-	4-6-01	9:25			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Sharon Pinkney	4-6-01	0925

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____
Company Name: Whole Earth Environmental, Inc.
Company Address: 19606 San Gabriel
City/State/Zip: Houston, Tx. 77084
Telephone No: (800) 864-4366 Fax No: (281) 648-8996
Sampler Signature: _____

Project Name: Quarterly Sampling
Project #: _____
Project Loc: Tatum, New Mexico
PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
38927	NBF MW 8	4-5	11:58		X		X					X											X		
38928	NBF MW 15		12:20		X		X					X											X		
38929	NBF MW 16		12:12		X		X					X											X		
38930	NBF MW 26		11:45		X		X					X											X		
38931	Sohio #1 MW 10		1:50		X		X					X											X		
38932	Sohio #1 MW 17		1:37		X		X					X											X		
38933	Sohio # 1 MW 18		1:22		X		X					X											X		
38934	Sohio # 1 MW 28		1:10		X		X					X											X		
38935	Sohio # 1 MW 30		12:55		X		X					X											X		
38936	Sohio "A" MW 11		2:20		X		X					X											X		

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 4°C
Laboratory Comments: Hold

Relinquished by:	Date	Time	Received by:	Date	Time
M. [illegible]	4-6-01	9:25			
Relinquished by:	Date	Time	Received by ELOT: [illegible]	Date 4-6-01	Time 1129

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 854-4368 Fax No: (281) 648-8996

Sampler Signature: _____

Project Name: Quarterly Sampling – Tippetary

Project #: _____

Project Loc: Tatum, New Mexico

PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: / TOTAL: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
38937	Sohio "A" MW 19	4-5	2:30		X		X					X											X		
38938	Sohio "A" MW 20		2:20		X		X					X											X		
38939	Sohio "A" MW 27		2:10		X		X					X											X		
38940	Sohio "A" MW 31		2:00		X		X					X											X		
38941	GS Source Well		2:40		X		X					X											X		
38942	GS MW 12		2:57		X		X					X											X		
38943	GS MW 21		3:10		X		X					X											X		
38944	GS MW 22		3:25		X		X					X											X		
38945	GS MW 29		3:45		X		X					X											X		
38946	Sat. 4 MW 9	✓	9:55		X		X					X											X		

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5°C
Laboratory Comments: INV: Tippetary

Relinquished by:	Date	Time	Received by:	Date	Time
Mgt.	4-6-01	9:25			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				4-6-01	09:25

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____

Company Name: Whole Earth Environmental

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 854-4358 Fax No: (281) 646-8996

Sampler Signature: _____

Project Name: Quarterly Sampling

Project #: _____

Project Loc: Tatum, NM

PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP / TOTAL: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
38947	23	4-5	9:10	2	✓		✓																✓		
38948	24	4-5	9:20	2	✓		✓																✓		

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5°C
Laboratory Comments: cool, Temp

Relinquished by:	Date	Time	Received by:	Date	Time
M. [illegible]	4-6-01	9:25			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[illegible]	4-6-01	0925

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Quarterly Sampling
Project Location: Tatum, New Mexico

Sampling Date: 04/05/01
Receiving Date: 04/06/01
Analysis Date: 04/06/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
38917	Iva Source Well	0.666	0.599	0.141	1.05	0.824
38918	Iva MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
38919	Iva MW 2	<0.001	<0.001	<0.001	<0.001	<0.001
38920	Mable Source Well	0.509	0.435	0.128	1.09	0.816
38921	Mable MW 3	<0.010	0.047	0.088	0.270	0.049
38922	Mable MW 4	<0.001	<0.001	0.006	0.015	0.004
38923	Bell MW 6	0.024	<0.001	0.002	0.001	<0.001
38924	Bell MW 13	<0.001	<0.001	<0.001	<0.001	<0.001
38925	Bell MW 14	0.047	<0.001	0.006	0.001	<0.001
38926	Bell MW 25	<0.001	<0.001	<0.001	<0.001	<0.001
38927	NBF MW 8	<0.001	<0.001	0.003	0.007	0.002
%IA		99	102	102	100	101
%EA		88	93	97	95	97
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

4-10-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Quarterly Sampling
Project Location: Tatum, New Mexico

Sampling Date: 04/05/01
Receiving Date: 04/06/01
Analysis Date: 04/08/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
38928	NBF MW 15	2.57	1.46	0.308	0.821	0.481
38929	NBF MW 16	1.55	<0.005	0.101	0.104	0.039
38930	NBF MW 26	<0.001	<0.001	0.003	0.009	0.003
38931	Sohio #1 MW 10	2.08	0.031	0.179	0.342	0.074
38932	Sohio #1 MW 17	1.49	0.038	0.199	0.606	0.348
38933	Sohio #1 MW 18	1.41	0.179	0.095	0.449	0.306
38934	Sohio #1 MW 28	0.014	0.010	0.007	0.016	0.006
38935	Sohio #1 MW 30	0.007	0.008	0.005	0.010	0.004
38936	Sohio "A" MW 11	0.033	0.006	0.007	0.024	0.013
38937	Sohio "A" MW 19	0.325	0.007	0.009	0.030	0.016
38938	Sohio "A" MW 20	0.020	0.006	0.009	0.029	0.016
38939	Sohio "A" MW 27	0.324	0.012	0.016	0.069	0.035
%IA		90	93	94	93	93
%EA		88	92	91	89	94
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

4-11-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2.5 deg. C
Project #: None Given
Project Name: Quarterly Sampling
Project Location: Tatum, New Mexico

Sampling Date: 04/05/01
Receiving Date: 04/06/01
Analysis Date: 04/09/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
38940	Sohio "A" MW 31	0.105	0.008	0.013	0.042	0.023
38941	GS Source Well	0.417	0.148	0.091	0.582	0.254
38942	GS MW 12	0.394	0.022	0.180	0.767	0.200
38943	GS MW 21	0.014	0.011	0.012	0.021	0.009
38944	GS MW 22	0.085	0.038	0.060	0.076	0.099
38945	GS MW 29	0.009	0.007	0.007	0.022	0.011
38946	Sat 4 MW 9	<0.001	<0.001	<0.001	<0.001	<0.001
38947	23	<0.001	<0.001	<0.001	<0.001	<0.001
38948	24	<0.001	<0.001	<0.001	<0.001	<0.001
%IA		93	98	100	99	100
%EA		102	106	106	104	105
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

4-11-01
Date

ıviro…ental Lab of Texas, Inc.

) West I-20 East
sa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 854-4358 Fax No: (281) 646-8996

Sampler Signature: M. Gatlin

Project Name: Quarterly Sampling

Project #: _____

Project Loc: Tatum, New Mexico

PO #: _____

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
Iva Source Well	1 6/6/01		2	X		X					X											X		
Iva MW 1	6/5/01		2	X		X					X											X		
Iva MW 2	6/5/01		2	X		X					X											X		
Mable Source Well	6/5/01		2	X		X					X											X		
Mable MW 3	6/5/01		2	X		X					X											X		
Mable MW 4	6/5/01		2	X		X					X											X		
Bell MW 6	6/5/01		2	X		X					X											X		
Bell MW 13	6/5/01		2	X		X					X											X		
Bell MW 14	6/5/01		2	X		X					X											X		
Bell MW 25	6/5/01		2	X		X					X											X		

Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
M. Gatlin	7-7-01	11:30			
Relinquished by:	Date	Time	Received by:	Date	Time

...viro...ntal Lab of Texas, Inc.

West I-20 East
...a, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 854-4358

Fax No: (281) 646-8996

Sampler Signature: M. [signature]

Project Name: Quarterly Sampling

Project #:

Project Loc: Tatum, New Mexico

PO #:

				Preservative							Matrix				Analyze For: (TCLP: / TOTAL:)																
FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Water	Sludge	Soil	Other (specify):	TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030							RUSH TAT (Pre-Schedule)	Standard TAT
NBF MW 8	6/5/01			X		X					X											X								
NBF MW 15	6/5/01			X		X					X											X								
NBF MW 16	6/5/01			X		X					X											X								
NBF MW 26	6/5/01			X		X					X											X								
Sohio #1 MW 10	6/6/01			X		X					X											X								
Sohio #1 MW 17	6/6/01			X		X					X											X								
Sohio # 1 MW 18	6/6/01			X		X					X											X								
Sohio # 1 MW 28	6/6/01			X		X					X											X								
Sohio # 1 MW 30	6/6/01			X		X					X											X								
Sohio "A" MW 11	6/6/01			X		X					X											X								

...l Instructions:

...lished by:	Date	Time	Received by:	Date	Time
[signature]	7-7-01	11:30			
...lished by:	Date	Time			

viron...ntal Lab of Texas, Inc.

West I-20 East
a, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____

Project Name: Quarterly Sampling

Company Name: Whole Earth Environmental, Inc.

Project #: _____

Company Address: 19606 San Gabriel

Project Loc: Tatum, New Mexico

City/State/Zip: Houston, Tx. 77084

PO #: _____

Telephone No: (600) 854-4358

Fax No: (281) 646-8996

Sampler Signature: M. Dirk

Lab I.D.	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030							RUSH TAT (Pre-Schedule)	Standard TAT
	Sohio "A" MW 19	6/6/01			X		X					X											X								
	Sohio "A" MW 20	6/6/01			X		X					X											X								
	Sohio "A" MW 27	6/6/01			X		X					X											X								
	Sohio "A" MW 31	6/6/01			X		X					X											X								
	GS Source Well	6/6/01			X		X					X											X								
	GS MW 12	6/6/01			X		X					X											X								
	GS MW 21	6/6/01			X		X					X											X								
	GS MW 22	6/6/01			X		X					X											X								
	GS MW 29	6/6/01			X		X					X											X								
	Sat. 4 MW 9	6/6/01			X		X					X											X								

...l Instructions:

...ished by:	Date	Time	Received by:	Date	Time
M. Dirk	7-7-01	11:30			
...ished by:	Date	Time	Received by:	Date	Time

nvironmental Lab of Texas, Inc.

0 West I-20 East
ssa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 864-4358 Fax No: (281) 646-8996

Sampler Signature:

Project Name: Quarterly Sampling

Project #:

Project Loc: Tatum, New Mexico

PO #:

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030	Cations / Anions	RUSH TAT (Pre-Schedule)	Standard TAT
Satellite # 4 MW 23	6/6/01		2	X		X					X											X			
Satellite # 4 MW24	6/6/01		2	X		X					X											X			
Collier MW 32	6/6/01		4	X		X					X				X							X	X		
CollierMW 33	6/6/01		4	X		X					X				X							X	X		

Instructions:

shed by:	Date	Time	Received by:	Date	Time
	7-7-01	11:30			
shed by:	Date	Time			

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
FAX: 505-397-3591 (motel)

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl 2 deg C
Project #: None Given
Project Name: Quarterly Sampling
Project Location: Tatum, N.M.

Sampling Date:See Below
Receiving Date: 07/07/01
Analysis Date: 07/07/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L	SAMPLE DATE
0101098-01	Iva Source Well	0.371	0.252	0.075	0.574	0.474	07/06/01
0101098-02	Iva MW 1	<0.001	<0.001	0.003	0.008	0.002	07/05/01
0101098-03	Iva MW 2	<0.001	<0.001	0.002	0.006	<0.001	07/05/01
0101098-04	Mable Source Well	0.459	0.343	0.118	0.928	0.735	07/05/01
0101098-05	Mable MW 3	0.003	0.007	0.025	0.057	0.021	07/05/01
0101098-06	Mable MW 4	0.004	0.014	0.006	0.014	0.005	07/05/01
0101098-07	Bell MW 6	0.056	<0.001	0.002	0.005	<0.001	07/05/01
0101098-08	Bell MW 13	0.001	<0.001	0.002	0.005	0.002	07/05/01
0101098-09	Bell MW 14	0.034	0.001	0.005	0.007	0.002	07/05/01
0101098-10	Bell MW 25	<0.001	<0.001	0.003	0.006	0.002	07/05/01
0101098-11	NBF MW 8	<0.001	<0.001	0.001	0.004	0.001	07/05/01
0101098-12	NBF MW 15	1.80	0.948	0.250	0.598	0.409	07/05/01
0101098-13	NBF MW 16	1.65	0.026	0.097	0.159	0.069	07/05/01
0101098-14	NBF MW 26	<0.001	<0.001	0.002	0.004	<0.001	07/05/01
0101098-15	Sohio #1 MW 10	2.20	<0.010	0.190	0.455	0.052	07/06/01
0101098-16	Sohio #1 MW 17	1.22	0.017	0.166	0.583	0.303	07/06/01
0101098-17	Sohio #1 MW 18	1.10	0.077	0.082	0.364	0.257	07/06/01
	QUALITY CONTROL	0.110	0.108	0.112	0.224	0.114	
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100	
	% INSTRUMENT ACCURACY	110	108	112	112	114	
	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	0.092	0.088	0.087	0.171	0.089	
	SPIKE DUP	0.088	0.084	0.085	0.167	0.086	
	% EXTRACTION ACCURACY	92	88	87	86	89	
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	
	RPD	4	4	2	2	3	

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

7-13-01
Date

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19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996
FAX: 505-397-3591 (motel)

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl 2 deg C
Project #: None Given
Project Name: Quarterly Sampling
Project Location: Tatum, N.M.

Sampling Date: 07/06/01
Receiving Date: 07/07/01
Analysis Date: 07/09/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101098-18	Sohio #1 MW 28	0.009	0.002	0.006	0.025	0.007
0101098-19	Sohio #1 MW 30	0.005	0.001	0.004	0.017	0.005
0101098-20	Sohio "A" MW 11	0.035	0.002	0.005	0.018	0.007
0101098-21	Sohio "A" MW 19	0.307	0.001	0.004	0.017	0.005
0101098-22	Sohio "A" MW 20	0.005	<0.001	0.004	0.014	0.004
0101098-23	Sohio "A" MW 27	0.073	<0.001	0.004	0.012	0.004
0101098-24	Sohio "A" MW 31	0.275	0.003	0.007	0.039	0.014
0101098-25	GS Source Well	0.318	0.180	0.133	0.722	0.368
0101098-26	GS MW 12	0.350	0.026	0.150	0.483	0.150
0101098-27	GS MW 21	0.009	0.002	0.007	0.004	0.002
0101098-28	GS MW 22	0.062	0.020	0.046	0.047	0.069
0101098-29	GS MW 29	0.005	0.002	0.004	0.005	0.004
0101098-30	Sat. 4 MW 9	<0.001	<0.001	0.001	0.003	<0.001
0101098-31	Satellite #4 MW 23	<0.001	<0.001	<0.001	<0.001	<0.001
0101098-32	Satellite #4 MW 24	<0.001	<0.001	<0.001	<0.001	<0.001
0101098-33	Collier MW 32	0.537	0.054	0.073	0.077	0.078
0101098-34	Collier MW 33	0.043	0.003	0.005	0.007	0.005
	QUALITY CONTROL	0.092	0.098	0.095	0.186	0.097
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100
	% INSTRUMENT ACCURACY	92	90	95	93	97
	SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
	ORIGINAL SAMPLE	0.005	0.001	0.004	0.017	0.005
	SPIKE	0.097	0.090	0.098	0.202	0.101
	SPIKE DUP	0.097	0.091	0.090	0.185	0.090
	% EXTRACTION ACCURACY	92	89	94	93	96
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
	RPD	0	1	8	9	11

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

7-13-01
Date

P.1

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: _____

Company Name: Whole Earth Environmental, Inc.

Company Address: 18606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 864-4368 Fax No: (281) 646-8996

Sampler Signature: _____

Project Name: Quarterly Sampling

Project #: _____

Project Loc: Tatum, New Mexico

PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl as per M.Griffin %	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: / TOTAL: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
	Iva Source Well	9/24/01		2	X	X	X					X											X		
	Iva MW 1	9/24/01		2	X	X	X					X											X		
	Iva MW 2	9/24/01		2	X	X	X					X											X		
	Mable Source Well	9/24/01		2	X	X	X					X											X		
	Mable MW 3	9/24/01		2	X	X	X					X											X		
	Mable MW 4	9/24/01		2	X	X	X					X											X		
	Bell MW 8	9/24/01		2	X	X	X					X											X		
	Bell MW 13	9/24/01		2	X	X	X					X											X		
	Bell MW 14	9/24/01		2	X	X	X					X											X		
	Bell MW 25	9/24/01		2	X	X	X					X											X		

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	9-26	8:18			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Sample Containers Intact? Y N
Temperature Upon Receipt: _____°C
Laboratory Comments: _____

Oct 05 01 04:05p

PG 2 of

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 864-4358 Fax No: (281) 646-6986

Sampler Signature:

Project Name: Quarterly Sampling

Project #:

Project Loc: Tatum, New Mexico

PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl as per M. Griffin 9/24	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030							RUSH TAT (Pre-Schedule)	Standard TAT
	NBF MW 8	9/24/01		2	X	X	X					X											X								
	NBF MW 15	9/24/01		2	X	X	X					X											X								
	NBF MW 16	9/24/01		2	X	X	X					X											X								
	NBF MW 26	9/24/01		2	X	X	X					X											X								
	Sohio #1 MW 10	9/24/01		2	X	X	X					X											X								
	Sohio #1 MW 17	9/24/01		2	X	X	X					X											X								
	Sohio # 1 MW 18	9/24/01		2	X	X	X					X											X								
	Sohio # 1 MW 28	9/24/01		2	X	X	X					X											X								
	Sohio # 1 MW 30	9/24/01		2	X	X	X					X											X								
	Sohio "A" MW 11	9/24/01		2	X	X	X					X											X								

TCLP:
TOTAL:

Special Instructions:

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griff	9-26-01	8:18			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[illegible]	[illegible]	[illegible]

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Company Name: Whole Earth Environmental, Inc.

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx. 77084

Telephone No: (800) 854-4358

Fax No: (281) 646-8996

Sampler Signature:

Project Name: Quarterly Sampling

Project #:

Project Loc: Tatum, New Mexico

PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3 JAM	HCl ces per M Griffin 9/26	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030							RUSH TAT (Pre-Schedule)	Standard TAT
[illegible]	Sohio "A" MW 19	9/24/01		2	X	X	X					X											X								
[illegible]	Sohio "A" MW 20	9/24/01		2	X	X	X					X											X								
[illegible]	Sohio "A" MW 27	9/24/01		2	X	X	X					X											X								
[illegible]	Sohio "A" MW 31	9/24/01		2	X	X	X					X											X								
[illegible]	GS Source Well	9/24/01		2	X	X	X					X											X								
[illegible]	GS MW 12	9/24/01		2	X	X	X					X											X								
[illegible]	GS MW 21	9/24/01		2	X	X	X					X											X								
[illegible]	GS MW 22	9/24/01		2	X	X	X					X											X								
[illegible]	GS MW 29	9/24/01		2	X	X	X					X											X								
[illegible]	~~Collier MW-32~~	~~9/24/01~~		~~2~~	~~X~~	~~X~~	~~X~~					~~X~~											~~X~~								

Special Instructions: [illegible] on Tipperary Begley Field COC 9/26

Sample Containers Intact? Temperature Upon Receipt: Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
M Griff.	9-26-01	8:18			
Relinquished by:	Date	Time	Received by ELOT: [illegible]	Date	Time

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENATL
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 Name: Quarterly Sampling
Project #: None Given
Project Location: Tatum, NM

Sampling Date: 09/24/01
Receiving Date: 09/26/01
Analysis Date: 10/04/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101642-01	Iva Source Well	0.430	0.204	0.048	0.486	0.359
0101642-02	Iva MW 1	<0.001	<0.001	<0.001	0.003	<0.001
0101642-03	Iva MW 2	0.004	0.003	0.001	0.006	0.004
0101642-04	Mable Source Well	0.550	0.425	0.148	1.36	0.904
0101642-05	Mable MW 3	0.053	0.163	0.173	0.826	0.154
0101642-06	Mable MW 4	0.039	0.038	0.102	0.273	0.091
0101642-07	Bell MW 6	0.038	<0.001	<0.001	<0.001	<0.001
0101642-08	Bell MW 13	0.002	0.002	0.003	0.009	0.003
0101642-09	Bell MW 14	0.054	0.001	0.005	0.011	0.004

QUALITY CONTROL	0.091	0.090	0.088	0.170	0.087
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	91	90	88	85	87
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	0.093	0.089	0.082	0.160	0.077
SPIKE DUP	0.086	0.104	0.090	0.171	0.087
%EA	86	104	90	86	87
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	4.51	0.79	2.97	1.26	1.69

METHODS: SW 846-8021B, 5030

Raland K. Tuttle

10-05-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENATL
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 Name: Quarterly Sampling
Project #: None Given
Project Location: Tatum, NM

Sampling Date: 09/24/01
Receiving Date: 09/26/01
Analysis Date: 10/04/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101642-10	Bell MW 25	<0.001	<0.001	0.005	0.016	0.006
0101642-11	NBF MW 8	0.041	0.044	0.018	0.040	0.026
0101642-12	NBF MW 15	2.52	1.34	0.331	0.960	0.562
0101642-13	NBF MW 16	1.39	0.001	0.058	0.041	0.005
0101642-14	NBF MW 26	0.027	0.002	0.003	0.008	0.003
0101642-15	Sohio #1 MW 10	2.15	0.131	0.189	0.510	0.137
0101642-16	Sohio #1 MW 17	1.03	0.035	0.035	0.381	0.108
0101642-17	Sohio #1 MW 18	2.81	2.22	0.554	3.15	1.65
0101642-18	Sohio #1 MW 28	<0.005	0.031	0.010	0.020	0.014

QUALITY CONTROL	0.099	0.099	0.092	0.179	0.086
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	99	99	92	90	86
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	0.005	0.016	0.006
SPIKE	0.093	0.092	0.089	0.181	0.087
SPIKE DUP	0.090	0.089	0.086	0.173	0.083
%EA	93	90	84	83	81
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	4	4	4	5	5

METHODS: SW 846-8021B, 5030

Raland K. Tuttle

10-5-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENATL
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 Name: Quarterly Sampling
Project #: None Given
Project Location: Tatum, NM

Sampling Date: 09/24/01
Receiving Date: 09/26/01
Analysis Date: 10/04/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101642-19	Sohio #1 MW 30	0.040	0.033	0.007	0.045	0.010
0101642-20	Sohio "A" MW 11	0.045	0.015	0.007	0.034	0.020
0101642-21	Sohio "A" MW 19	0.250	0.013	0.006	0.032	0.016
0101642-22	Sohio "A" MW 20	0.037	0.025	0.011	0.052	0.026
0101642-23	Sohio "A" MW 27	0.123	0.036	0.018	0.082	0.039
0101642-24	Sohio "A" MW 31	0.406	0.038	0.014	0.083	0.040
0101642-25	GS Source Well	0.350	0.141	0.097	0.430	0.226
0101642-26	GS MW 12	0.533	0.078	0.267	1.12	0.309
0101642-27	GS MW 21	0.016	0.009	0.012	0.015	0.006
0101642-28	GS MW 22	0.041	0.019	0.038	0.032	0.042
0101642-29	GS MW 29	0.016	0.007	0.007	0.015	0.007

QUALITY CONTROL	0.104	0.100	0.092	0.185	0.088
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	104	100	92	92	88
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	0.037	0.025	0.011	0.052	0.026
SPIKE	0.155	0.130	0.111	0.270	0.126
SPIKE DUP	0.129	0.114	0.098	0.236	0.113
%EA	92	89	87	92	86
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	25	16	14	17	15

METHODS: SW 846-8021B, 5030

Raland K. Tuttle

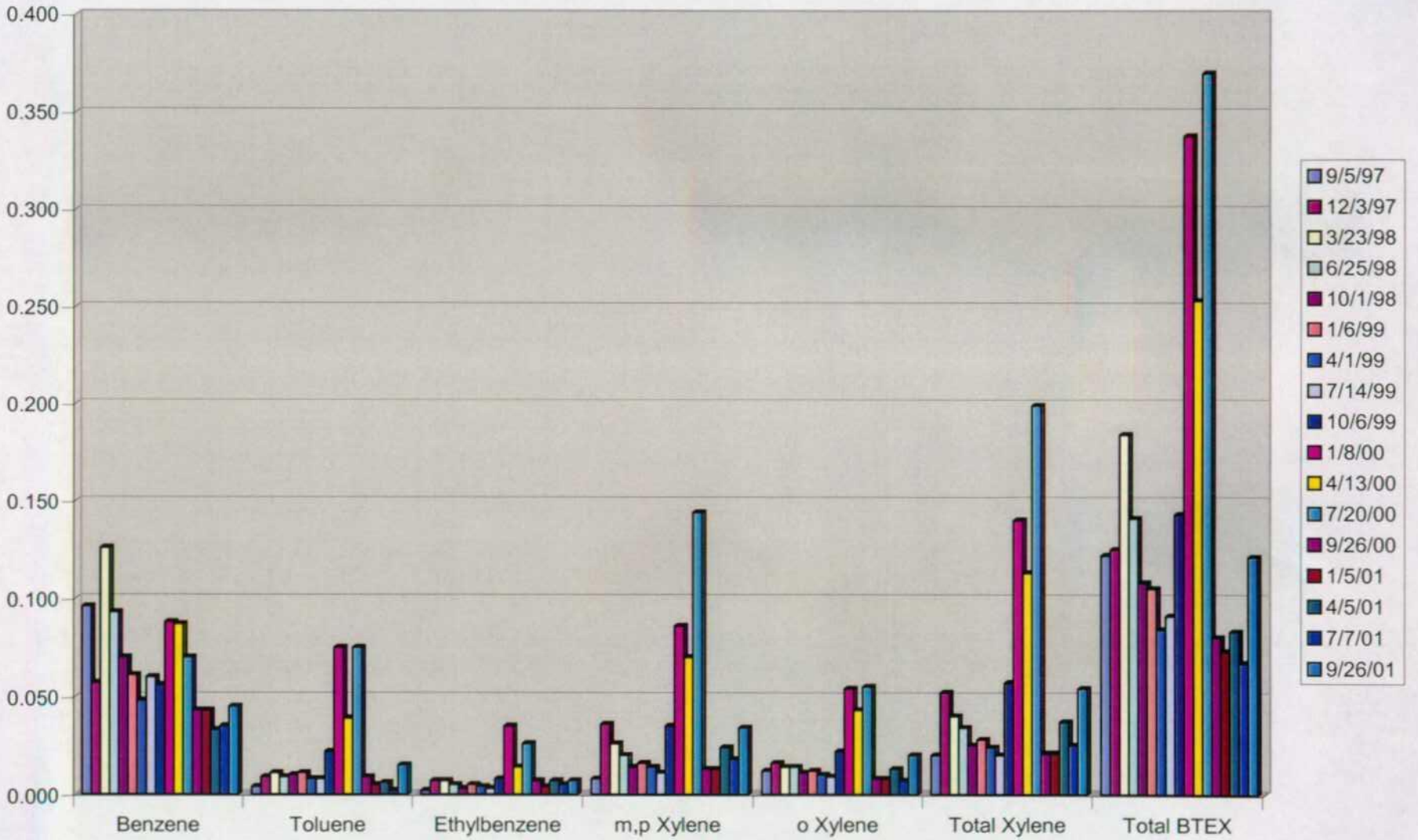
10-5-01
Date

Sohio A

Monitor Well # 11
Sohio State "A"
Sampling Results

Lab. #	12484	13132	14067	14666	15598	16605	17441	18596	20602	22763	25151	28422	31513	36142	38936	0101098-20	101642
Sample Date	9/5/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99	4/1/99	7/14/99	10/6/99	1/8/00	4/13/00	7/20/00	9/26/00	1/5/01	4/5/01	7/7/01	9/26/01
Benzene	0.096	0.057	0.126	0.093	0.070	0.061	0.048	0.060	0.056	0.088	0.087	0.070	0.043	0.043	0.033	0.035	0.045
Toluene	0.004	0.009	0.011	0.009	0.010	0.011	0.008	0.008	0.022	0.075	0.039	0.075	0.009	0.005	0.006	0.002	0.015
Ethylbenzene	0.002	0.007	0.007	0.005	0.003	0.005	0.004	0.003	0.008	0.035	0.014	0.026	0.007	0.004	0.007	0.005	0.007
m,p Xylene	0.008	0.036	0.026	0.020	0.014	0.016	0.014	0.011	0.035	0.086	0.070	0.144	0.013	0.013	0.024	0.018	0.034
o Xylene	0.012	0.016	0.014	0.014	0.011	0.012	0.010	0.009	0.022	0.054	0.043	0.055	0.008	0.008	0.013	0.007	0.020
Total Xylene	0.020	0.052	0.040	0.034	0.025	0.028	0.024	0.020	0.057	0.140	0.113	0.199	0.021	0.021	0.037	0.025	0.054
Total BTEX	0.122	0.125	0.184	0.141	0.108	0.105	0.084	0.091	0.143	0.338	0.253	0.370	0.080	0.073	0.083	0.067	0.121

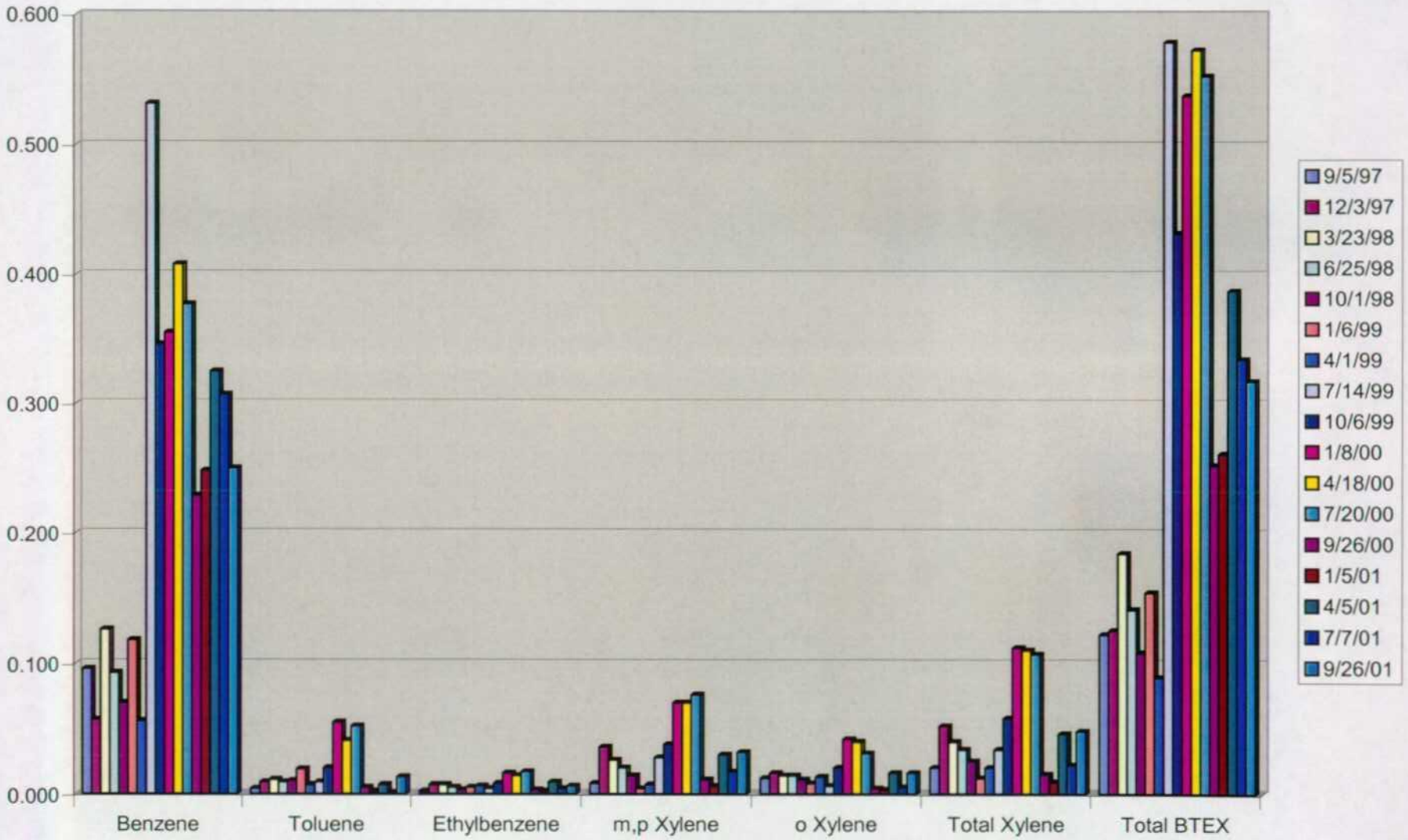
Monitor Well # 11



Monitor Well # 19
Sohio State "A"
Sampling Results

Lab. #	12484	13132	14067	14666	15598	16605	17441	18596	20602	22763	25151	28422	31513	36142	38937	0101098-21	0101642-21
Sample Date	9/5/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99	4/1/99	7/14/99	10/6/99	1/8/00	4/18/00	7/20/00	9/26/00	1/5/01	4/5/01	7/7/01	9/26/01
Benzene	0.096	0.057	0.126	0.093	0.070	0.118	0.056	0.532	0.346	0.355	0.408	0.377	0.229	0.248	0.325	0.307	0.250
Toluene	0.004	0.009	0.011	0.009	0.010	0.019	0.007	0.009	0.020	0.055	0.041	0.052	0.005	0.002	0.007	0.001	0.013
Ethylbenzene	0.002	0.007	0.007	0.005	0.003	0.005	0.006	0.004	0.008	0.016	0.014	0.017	0.003	0.002	0.009	0.004	0.006
m,p Xylene	0.008	0.036	0.026	0.020	0.014	0.004	0.007	0.028	0.038	0.070	0.070	0.076	0.011	0.006	0.030	0.017	0.032
o Xylene	0.012	0.016	0.014	0.014	0.011	0.008	0.013	0.006	0.020	0.042	0.040	0.031	0.004	0.003	0.016	0.005	0.016
Total Xylene	0.020	0.052	0.040	0.034	0.025	0.012	0.020	0.034	0.058	0.112	0.110	0.107	0.015	0.009	0.046	0.022	0.048
Total BTEX	0.122	0.125	0.184	0.141	0.108	0.154	0.089	0.579	0.432	0.538	0.573	0.553	0.252	0.261	0.387	0.334	0.317

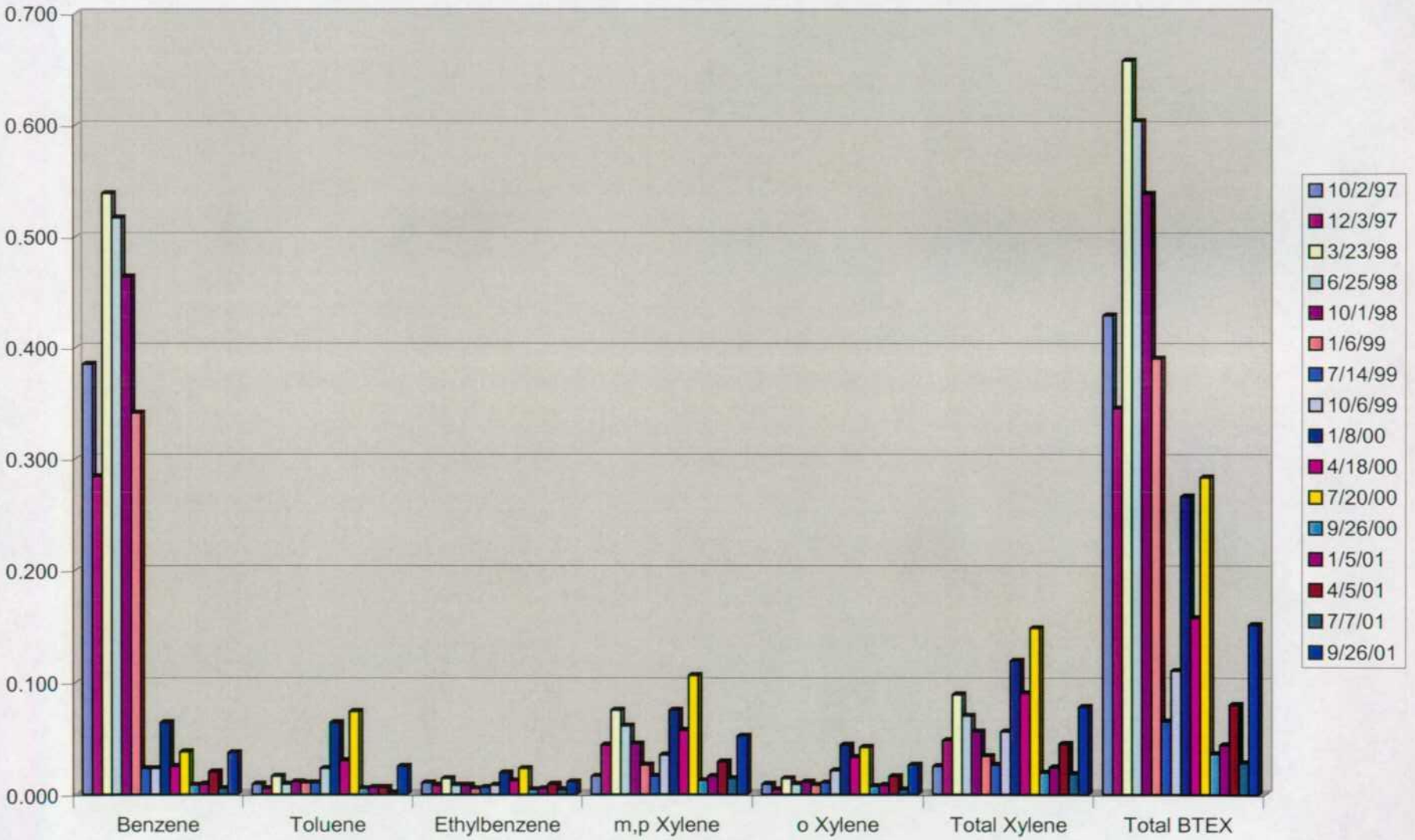
Monitor Well # 19



Monitor Well # 20
Sohio State "A"
Sampling Results

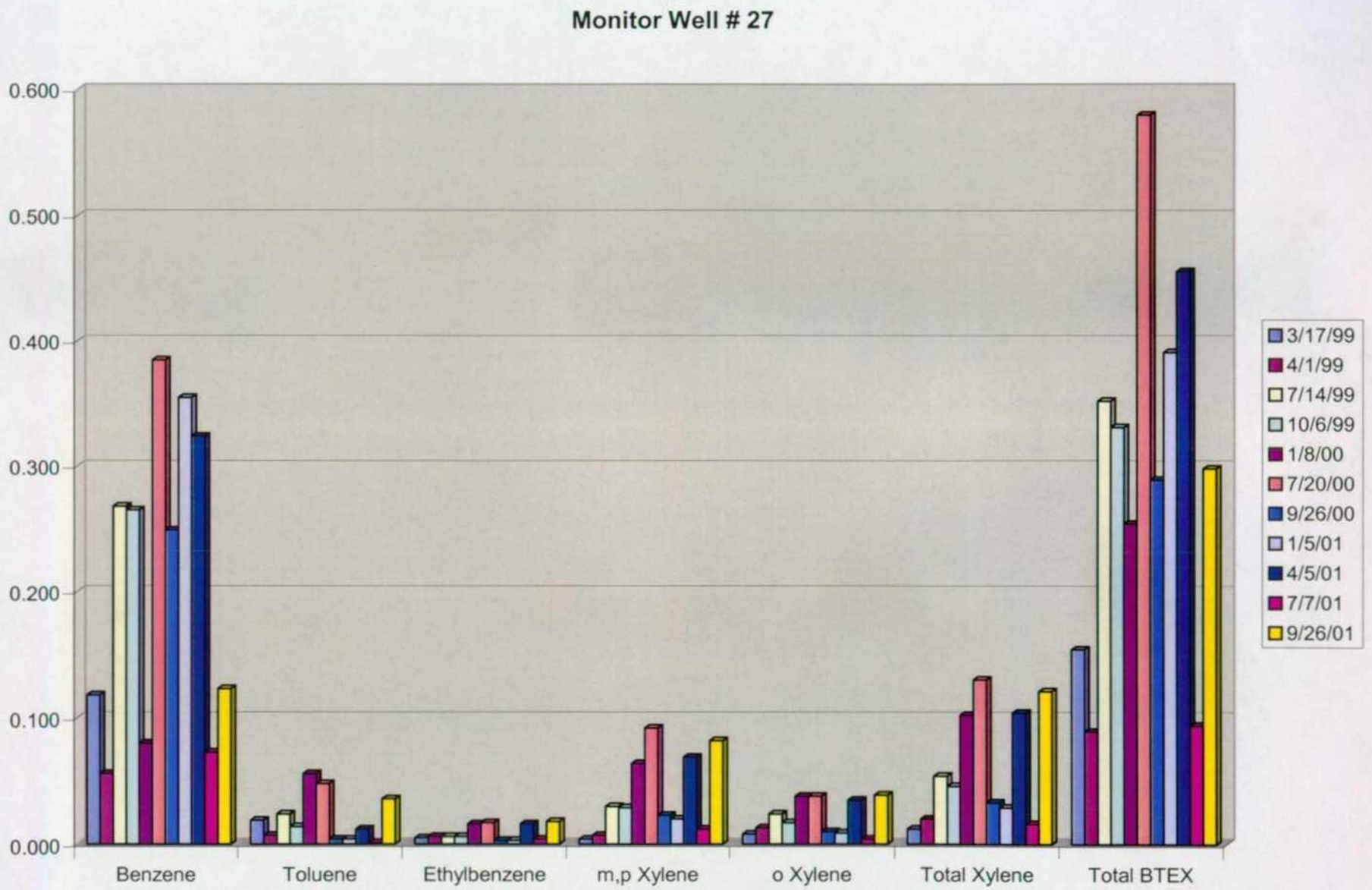
Lab. #	12726	13190	14054	14674	15610	16590	18609	20620	22769	25160	28449	31515	36148	38938	0101098-22	0101642-22
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99	7/14/99	10/6/99	1/8/00	4/18/00	7/20/00	9/26/00	1/5/01	4/5/01	7/7/01	9/26/01
Benzene	0.385	0.284	0.539	0.517	0.464	0.341	0.023	0.023	0.064	0.025	0.038	0.008	0.009	0.020	0.005	0.037
Toluene	0.009	0.005	0.016	0.009	0.011	0.010	0.010	0.023	0.064	0.030	0.074	0.005	0.006	0.006	0.001	0.025
Ethylbenzene	0.010	0.008	0.014	0.008	0.008	0.005	0.006	0.008	0.019	0.012	0.023	0.004	0.005	0.009	0.004	0.011
m,p Xylene	0.016	0.044	0.075	0.061	0.045	0.026	0.016	0.035	0.075	0.057	0.106	0.012	0.016	0.029	0.014	0.052
o Xylene	0.009	0.004	0.014	0.009	0.011	0.008	0.010	0.021	0.044	0.033	0.042	0.007	0.008	0.016	0.004	0.026
Total Xylene	0.025	0.048	0.089	0.070	0.056	0.034	0.026	0.056	0.119	0.090	0.148	0.019	0.024	0.045	0.018	0.078
Total BTEX	0.429	0.345	0.658	0.604	0.539	0.390	0.065	0.110	0.266	0.157	0.283	0.036	0.044	0.080	0.028	0.151

Monitor Well # 20



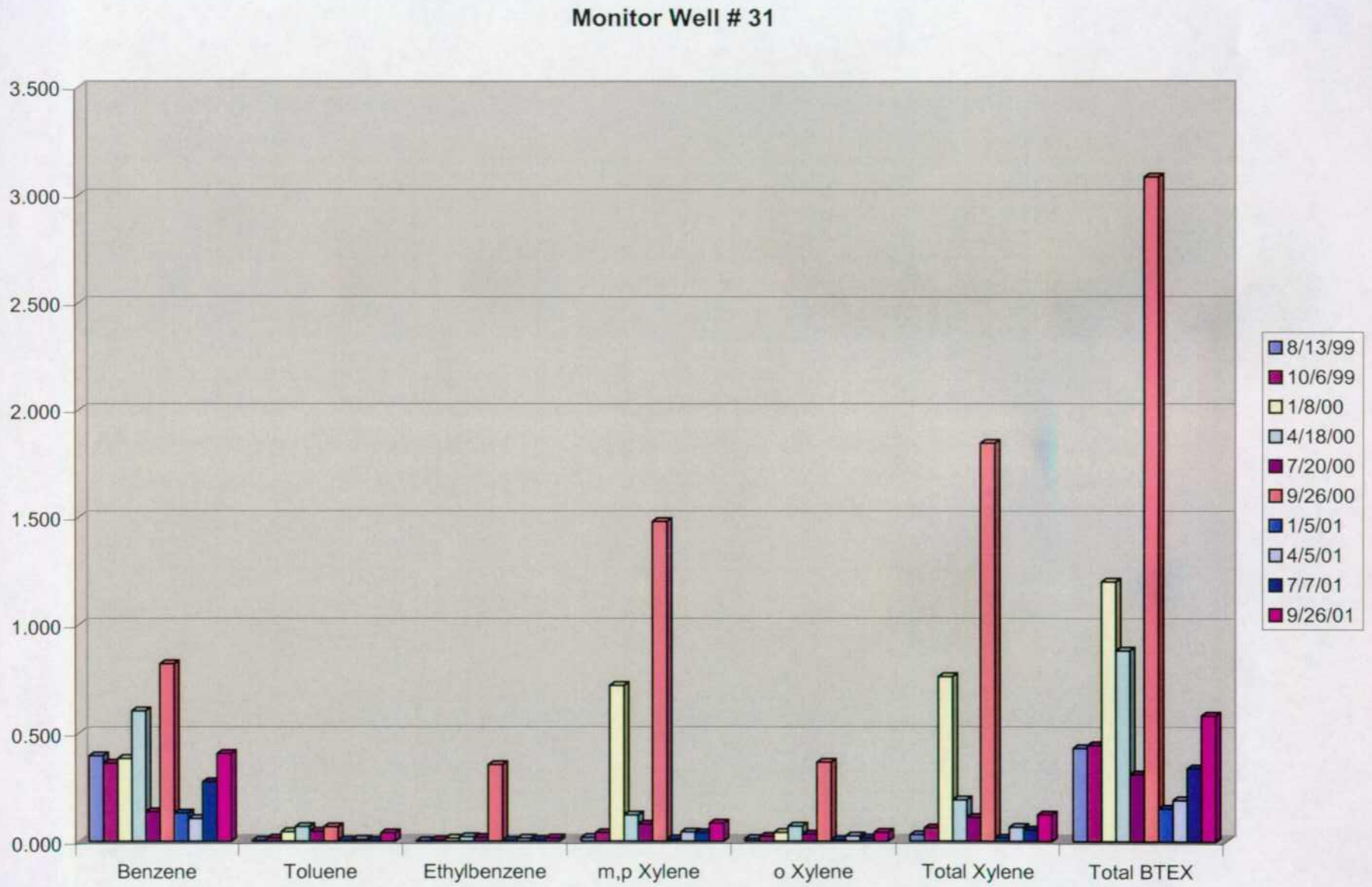
Monitor Well # 27
Sohio State "A"
Sampling Results

Lab. #	17267	17444	18610	20621	22780	28456	31516	36153	38939	0101098-23	0101642-23
Sample Date	3/17/99	4/1/99	7/14/99	10/6/99	1/8/00	7/20/00	9/26/00	1/5/01	4/5/01	7/7/01	9/26/01
Benzene	0.118	0.056	0.268	0.265	0.080	0.385	0.249	0.355	0.324	0.073	0.123
Toluene	0.019	0.007	0.024	0.014	0.056	0.048	0.004	0.004	0.012	0.001	0.036
Ethylbenzene	0.005	0.006	0.006	0.006	0.016	0.017	0.003	0.003	0.016	0.004	0.018
m,p Xylene	0.004	0.007	0.030	0.029	0.064	0.092	0.023	0.020	0.069	0.012	0.082
o Xylene	0.008	0.013	0.024	0.017	0.038	0.038	0.010	0.009	0.035	0.004	0.039
Total Xylene	0.012	0.020	0.054	0.046	0.102	0.130	0.033	0.029	0.104	0.016	0.121
Total BTEX	0.154	0.089	0.352	0.331	0.254	0.580	0.289	0.391	0.456	0.094	0.298


Monitor Well # 27
0.600
0.500
0.400
0.300
0.200
0.100
0.000
Benzene
Toluene
Ethylbenzene
m,p Xylene
o Xylene
Total Xylene
Total BTEX
3/17/99
4/1/99
7/14/99
10/6/99
1/8/00
7/20/00
9/26/00
1/5/01
4/5/01
7/7/01
9/26/01

Monitor Well # 31
Sohio State "A"
Sampling Results

Lab. #	19166	20622	22787	25153	28460	31517	36162	38940	0101098-24	0101642-24
Sample Date	8/13/99	10/6/99	1/8/00	4/18/00	7/20/00	9/26/00	1/5/01	4/5/01	7/7/01	9/26/01
Benzene	0.396	0.362	0.383	0.602	0.137	0.820	0.130	0.105	0.275	0.406
Toluene	0.004	0.015	0.044	0.067	0.046	0.066	0.004	0.008	0.003	0.038
Ethylbenzene	0.001	0.006	0.013	0.020	0.017	0.354	0.003	0.013	0.007	0.014
m,p Xylene	0.017	0.039	0.720	0.121	0.078	1.480	0.010	0.042	0.039	0.083
o Xylene	0.012	0.022	0.040	0.070	0.032	0.365	0.005	0.023	0.014	0.040
Total Xylene	0.029	0.061	0.760	0.191	0.110	1.845	0.015	0.065	0.053	0.123
Total BTEX	0.430	0.444	1.200	0.880	0.310	3.085	0.152	0.191	0.338	0.581


Monitor Well # 31
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Benzene
Toluene
Ethylbenzene
m,p Xylene
o Xylene
Total Xylene
Total BTEX
8/13/99
10/6/99
1/8/00
4/18/00
7/20/00
9/26/00
1/5/01
4/5/01
7/7/01
9/26/01

SOHIO "A" STATE #1