

1R - 267

**ANNUAL
MONITORING
REPORT**

4/05/2005



Tipperary
CORPORATION

633 Seventeenth Street
Suite 1550
Denver, Colorado 80202-3622

RECEIVED

APR 06 2005

April 5, 2005

VIA OVERNIGHT MAIL

Oil Conservation Division
Environmental Bureau

Mr. Roger C. Anderson
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

**RE: Progress Report for Year 2004
Bagley Field
Pit Closure Project
Lea County, NM**

IRP 263
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Dear Mr. Anderson:

Please find enclosed the 2004 results from our monitor wells in the subject project area. This report summarizes the results from water samples taken on October 1, 2004. These results represent seven years of monitoring. On April 19, 2004, the NMOCB modified the monitoring program for the project to allow sampling on an annual basis. In general, we are continuing to observe decreasing levels of BTEX in the monitor wells.

The Executive Summary section contains a general discussion of the project to date and a Location Map of the pit reclamation projects.

A summary of the investigation work and results to date for each pit closure site is included. The following data is presented for each site:

- Well site plat with monitor well locations.
- Ground water potentiometric map for the 2004 sampling with the direction and magnitude of the hydraulic gradient.
- Table of ground water recovery volumes (where applicable).
- Well bailing log for each well.
- Summary table and chart of water quality results for each well.
- Geologic/lithologic log and well construction diagram for each new well.

We will continue to sample and prepare a progress report for your office on an annual basis. If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Tipperary Oil & Gas Corporation



Larry G. Sugano
Vice President - Engineering

Enclosures

cc: NMOCD Hobbs Office
Whole Earth Environmental

**Tipperary Oil & Gas Corporation
Bagley Field
2004 Annual Report**

Executive Summary

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 with 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, three sites have been remediated to final closure. On April 19, 2004, the NMOCD modified the monitoring program to allow sampling on an annual basis.

Procedures

Whole Earth employs a Grundfos electric submersible pump and individual bailers dedicated to each well. The well fluids are pumped into a trailer mounted storage tank and sent to disposal at the Burro Pipeline Station No. 1.

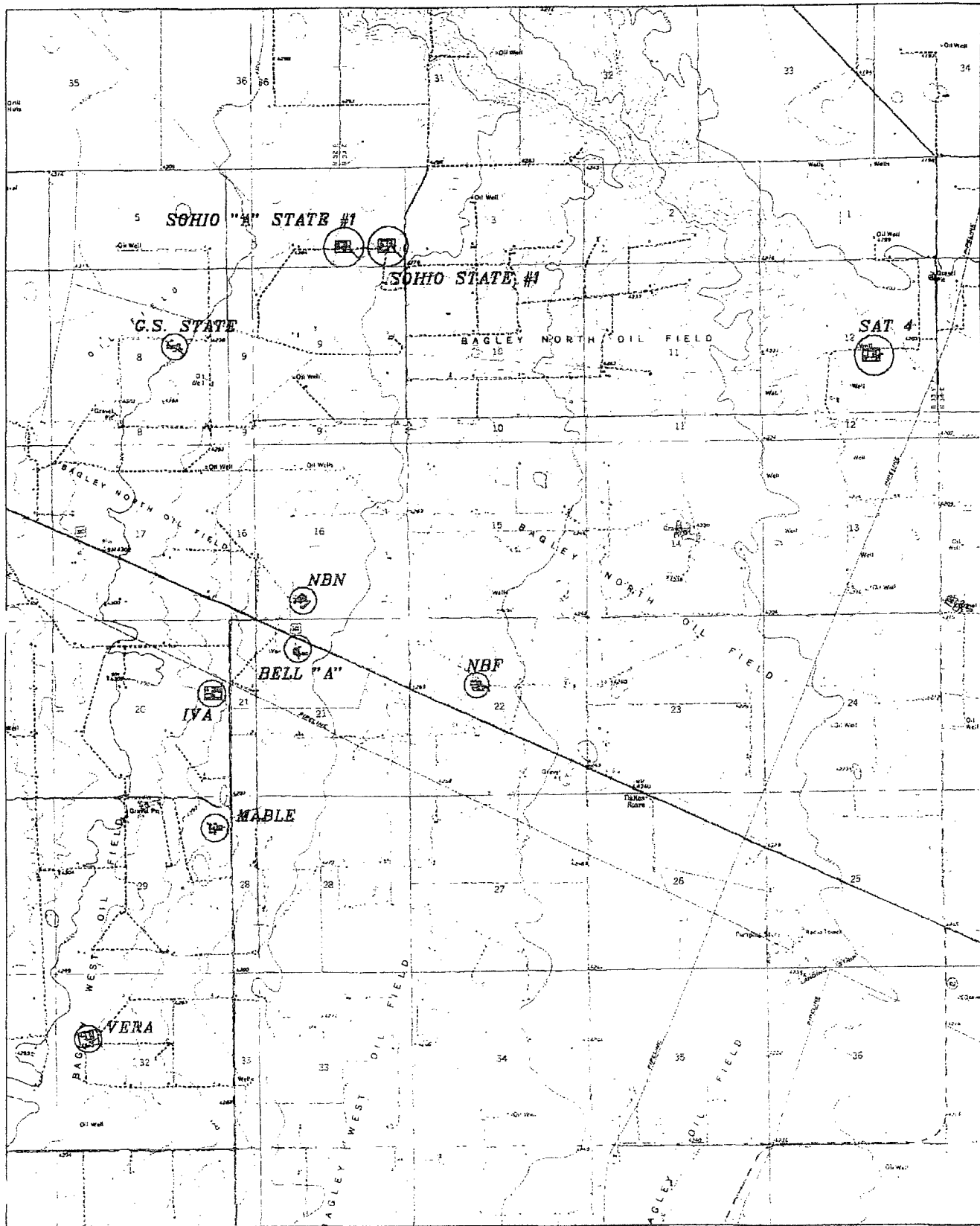
The submersible pump is thoroughly decontaminated between each well by spraying the exterior with detergent followed by a clear water rinse; the inside of the pump and hose assembly is cleaned by pumping a minimum volume of five gallons of Alquinox through the system between each well.

Results and Conclusions

Generally, the trend for each pit site is to show lower concentrations of BTEX within each recovery and monitor well bore. During this sampling round we noticed that those bores containing free products had increased volumes of hydrocarbons over all previous sampling rounds. We believe that this is due to the reduction of frequency in bailing the wells (once versus four times per year). In future bailings we will continue to pump sufficient volumes from each bore containing free product until such time as the oil is no longer visible within the discharge stream.

A map showing the project area is attached. The following sections present the investigation work results to date for each of the sites.

WHOLE EARTH ENVIROMENTAL, INC.



4000 0 4000 8000

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 Oil & Gas Corporation
Bagley Field
2004 Annual Report**

**Sohio State #1
Section 4P-T11S-R33E**

IRP 267

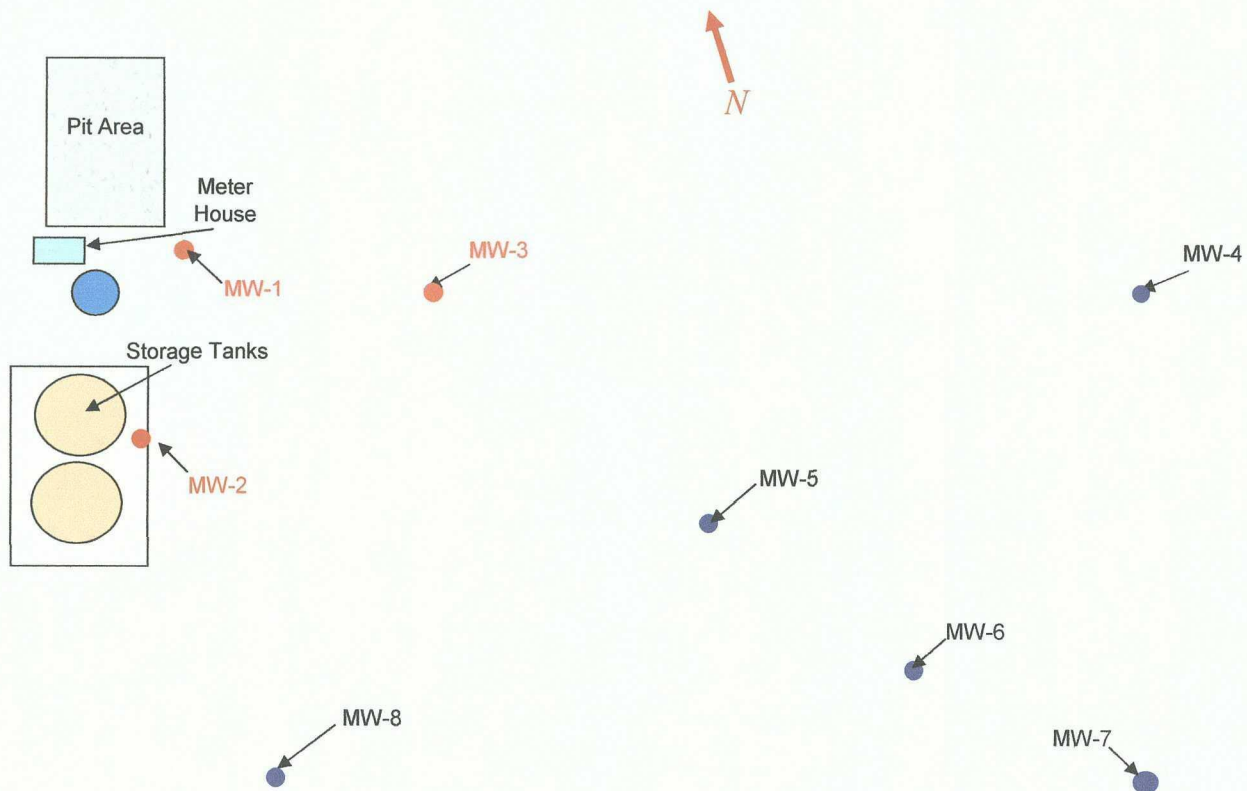
The Sohio #1 site consists of eight monitor wells. Monitor Well No. 1 shows a significant increase in free product within the well bore. Monitor Wells Nos. 2 and 3 have slightly decreased concentrations and no free product. All other wells show acceptable results.

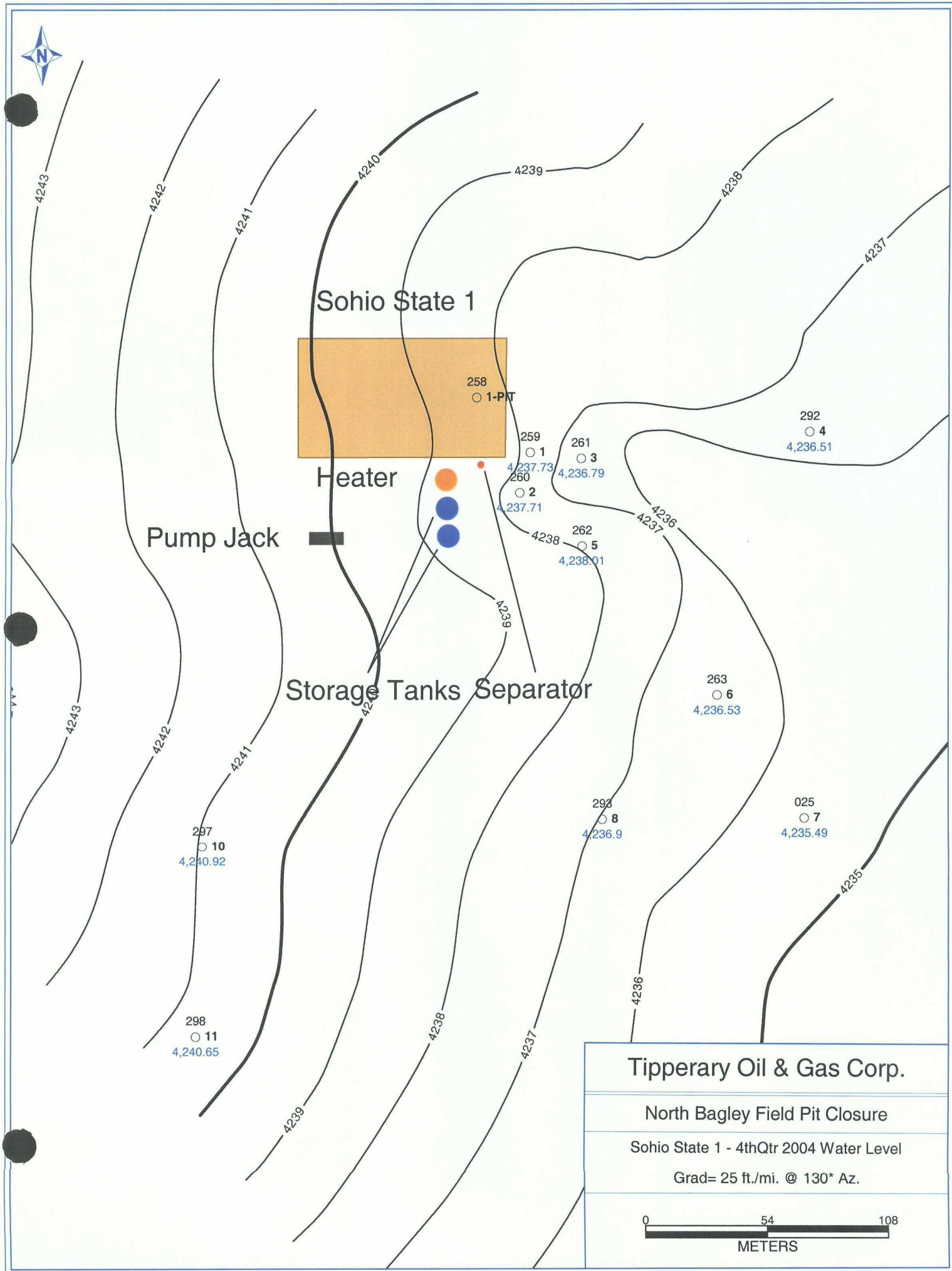
We will continue to monitor the results on an annual basis.

Please find the following data:

- Well-site plat with monitor well locations.
- Ground water potentiometric map for 2004 sampling with direction and magnitude of the hydraulic gradient.
- Well bailing log for each well.
- Summary table and chart of ground water quality results for each well.
- Copy of the recent laboratory sampling results with the QA/QC data.

Tipperary Corporation
Sohio 1
Monitor Well Locations







Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #1

Lat: N33⁰ 23.3627'
Long. W103⁰ 36.2156'
Surf. Elev. 4283.31 Ft.

As Drilled	As Measured
------------	-------------

Date: 8/29/1997
Top of Water 50 Ft.
Bottom of Bore 60 Ft.

Date:	1/24/04	10/1/04			
Top of Water	45.80	45.90			Ft.
Bottom of Bore	59.60	59.50			Ft.
Bore Volume	2.23	2.19			Gal.
LPNL Top	45.80	45.80			Ft.
LPNL Bottom	?	?			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	6.68	6.58			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #2

Lat: 33⁰ 23.364'
Long. 103⁰ 36.734'
Surf. Elev. Ft.

As Drilled	As Measured
------------	-------------

Date: 10/1/1997
Top of Water 48.58 Ft.
Bottom of Bore 60 Ft.

Date:	1/24/04	10/1/04			
Top of Water	45.80	45.50			Ft.
Bottom of Bore	59.60	59.60			Ft.
Bore Volumn	2.23	2.27			Gal.
LPNL Top	45.80	45.80			Ft.
LPNL Bottom	?	?			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	6.68	6.82			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #3

Lat: N33⁰ 23.3706'
Long. W103⁰ 36.7147'
Surf. Elev. 4283.59 Ft.

As Drilled	As Measured
------------	-------------

Date: 9/29/1997
Top of Water 49.37 Ft.
Bottom of Bore 60 Ft.

Date:	1/24/04	10/1/04			
Top of Water	46.90	46.80			Ft.
Bottom of Bore	58.50	58.30			Ft.
Bore Volumn	1.87	1.85			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	5.61	5.56			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #4

Lat: N33° 23.3761'
Long. W103° 36.6493'
Surf. Elev. 4282.71 Ft.

As Drilled	As Measured
------------	-------------

Date: 6/13/2003
Top of Water 44.6 Ft.
Bottom of Bore 60 Ft.

Date:	1/24/04	10/1/04			
Top of Water	46.10	46.10			Ft.
Bottom of Bore	57.30	57.40			Ft.
Bore Volumn	1.81	1.82			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	5.42	5.47			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #5

Lat: _____
Long. _____
Surf. Elev. _____ Ft.

As Drilled	As Measured
------------	-------------

Date: 3/16/1999
Top of Water 40 Ft.
Bottom of Bore 51 Ft.

Date:	1/24/04	10/1/04			
Top of Water	45.40	45.40			Ft.
Bottom of Bore	55.40	55.30			Ft.
Bore Volumn	1.61	1.60			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	4.84	4.79			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #6

Lat: _____
Long. _____
Surf. Elev. _____ Ft.

As Drilled	As Measured
------------	-------------

Date: 8/9/1999
Top of Water 45.31 Ft.
Bottom of Bore 67 Ft.

Date:	1/24/04	10/1/04		
Top of Water	44.70	45.00		Ft.
Bottom of Bore	59.80	59.40		Ft.
Bore Volumn	2.44	2.32		Gal.
LPNL Top	NA	NA		Ft.
LPNL Bottom	NA	NA		Ft.
DPNL Top	NA	NA		Ft.
DPNL Bottom	NA	NA		Ft.
Min. Bailing Vol.	7.31	6.97		Gal.
Actual Bailing Vol.	15.00	10.00		Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #7

Lat: _____
Long. _____
Surf. Elev. _____ Ft.

As Drilled	As Measured
------------	-------------

Date: 6/5/2002
Top of Water 50 Ft.
Bottom of Bore 60 Ft.

Date:	1/24/04	10/1/04			
Top of Water	43.40	43.20			Ft.
Bottom of Bore	56.30	56.80			Ft.
Bore Volumn	2.08	2.19			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	6.24	6.58			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments



Sohio 1

Monitor Well Bailing Log

Sohio 1 MW #8

Lat: N33° 23.28517'
Long. W103° 36.70985'
Surf. Elev. 4280.1 Ft.

As Drilled	As Measured
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Date: 6/13/2003
Top of Water 44.6 Ft.
Bottom of Bore 60 Ft.

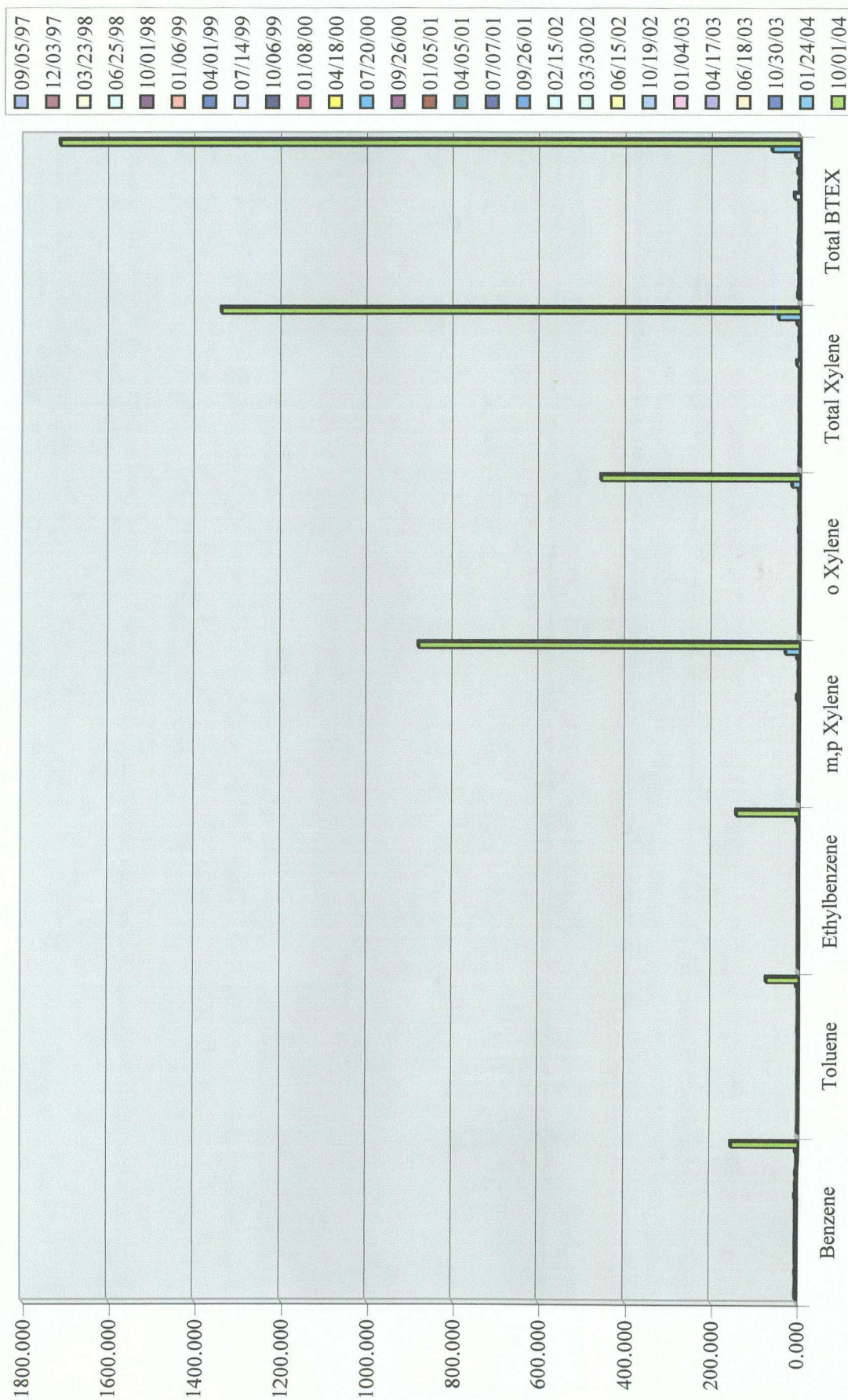
Date:	1/24/04	10/1/04			
Top of Water	43.20	43.10			Ft.
Bottom of Bore	57.40	57.60			Ft.
Bore Volumn	2.29	2.34			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	6.87	7.02			Gal.
Actual Bailing Vol.	15.00	10.00			Gal.

Comments

**Monitor Well # 1
Sohio State # 1
Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12483	09/05/97	2.559	1.148	0.243	1.257	0.081	1.338	5.288
13186	12/03/97	2.148	0.062	0.173	0.930	0.313	1.243	3.626
14066	03/23/98	1.301	0.113	0.209	0.490	0.179	0.669	2.292
14665	06/25/98	1.313	0.113	0.206	0.611	0.180	0.791	2.423
15597	10/01/98	2.541	0.108	0.182	0.167	0.098	0.265	3.096
16604	01/06/99	1.000	0.067	0.156	0.214	0.095	0.309	1.532
17437	04/01/99	2.340	0.067	0.168	0.203	0.100	0.303	2.878
18595	07/14/99	2.340	0.110	0.243	0.343	0.136	0.479	3.172
20601	10/06/99	2.040	0.255	0.157	0.261	0.200	0.461	2.913
22762	01/08/00	2.350	0.520	0.187	0.586	0.329	0.915	3.972
25154	04/18/00	2.360	0.263	0.195	0.421	0.216	0.637	3.455
28441	07/20/00	1.860	0.099	0.132	0.391	0.186	0.577	2.668
31508	09/26/00	1.620	0.036	0.127	0.308	0.109	0.417	2.200
36143	01/05/01	2.430	0.011	0.153	0.251	0.089	0.340	2.934
38931	04/05/01	2.080	0.031	0.179	0.342	0.074	0.416	2.706
0101098-15	07/07/01	2.200	0.010	0.190	0.455	0.052	0.507	2.907
0101642-15	09/26/01	2.150	0.131	0.189	0.510	0.137	0.647	3.117
0202619-15	02/15/02	3.850	1.340	1.060	5.000	2.200	7.200	13.450
0203001-15	03/30/02	1.830	0.203	0.059	0.335	0.014	0.349	2.441
0203602-15	06/15/02	2.060	0.192	0.076	0.496	0.138	0.634	2.962
0204815-18	10/19/02	0.471	0.087	0.099	0.327	0.158	0.485	1.142
0205349-17	01/04/03	1.940	0.367	0.367	1.540	0.774	2.314	4.988
0306249-18	04/17/03	0.628	0.108	0.024	0.552	0.290	0.842	1.602
0306733-01	06/18/03	0.992	0.072	0.144	0.490	0.198	0.688	1.896
0307790-33	10/30/03	1.720	1.190	1.010	4.830	1.930	6.760	10.680
4A26012-01	01/24/04	4.900	5.080	5.390	31.700	18.100	49.800	65.170
4J04011-01	10/01/04	155.000	75.300	145.000	882.000	459.000	1341.000	1716.300

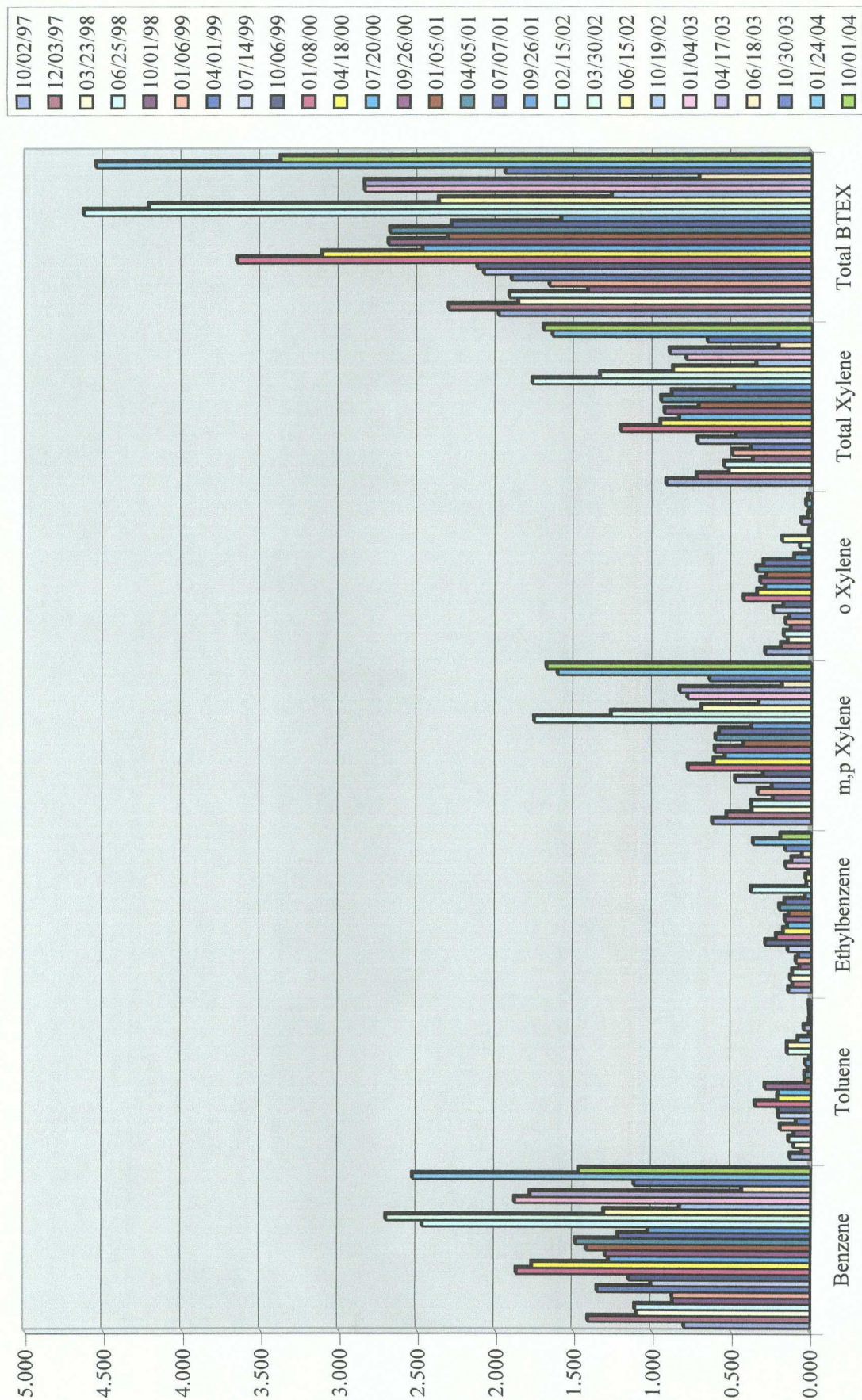
Sohio 1 MW #1



Monitor Well # 2**Sohio State # 1****Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12723	10/02/97	0.799	0.128	0.141	0.628	0.292	0.920	1.988
13187	12/03/97	1.409	0.053	0.116	0.536	0.192	0.728	2.306
14051	03/23/98	1.101	0.108	0.130	0.376	0.148	0.524	1.863
14671	06/25/98	1.111	0.138	0.118	0.379	0.174	0.553	1.920
15601	10/01/98	0.872	0.105	0.071	0.242	0.129	0.371	1.419
16587	01/06/99	0.876	0.193	0.094	0.339	0.163	0.502	1.665
17438	04/01/99	1.350	0.092	0.079	0.248	0.138	0.386	1.907
18605	07/14/99	1.010	0.205	0.146	0.482	0.240	0.722	2.083
20615	10/06/99	1.150	0.206	0.289	0.304	0.176	0.480	2.125
22790	01/08/00	1.870	0.353	0.221	0.782	0.429	1.211	3.655
25155	04/18/00	1.770	0.209	0.176	0.616	0.344	0.960	3.115
28446	07/20/00	1.280	0.203	0.150	0.546	0.294	0.840	2.473
31509	09/26/00	1.300	0.291	0.165	0.610	0.324	0.934	2.690
36143	01/05/01	1.420	0.036	0.140	0.428	0.287	0.715	2.311
38932	04/05/01	1.490	0.038	0.199	0.606	0.348	0.954	2.681
0101098-16	07/07/01	1.220	0.017	0.166	0.583	0.303	0.886	2.289
1010642-16	09/26/01	1.030	0.035	0.035	0.381	0.108	0.489	1.589
0202619-16	02/15/02	2.470	0.007	0.381	1.760	0.013	1.773	4.631
0203001-16	03/30/02	2.700	0.149	0.025	1.270	0.072	1.342	4.216
0203602-16	06/15/02	1.310	0.149	0.031	0.694	0.185	0.879	2.369
0204815-19	10/19/02	0.830	0.081	0.010	0.332	0.015	0.347	1.268
0205349-18	01/04/03	1.880	0.010	0.160	0.783	0.010	0.793	2.843
0306249-19	04/17/03	1.780	0.045	0.120	0.833	0.066	0.899	2.844
0306733-02	06/18/03	0.435	0.013	0.055	0.184	0.022	0.206	0.709
0307790-34	10/30/03	1.120	0.007	0.162	0.644	0.014	0.658	1.947
4A26012-02	01/24/04	2.530	0.009	0.368	1.610	0.034	1.644	4.551
4J04011-02	10/01/04	1.470	0.013	0.193	1.680	0.022	1.702	3.378

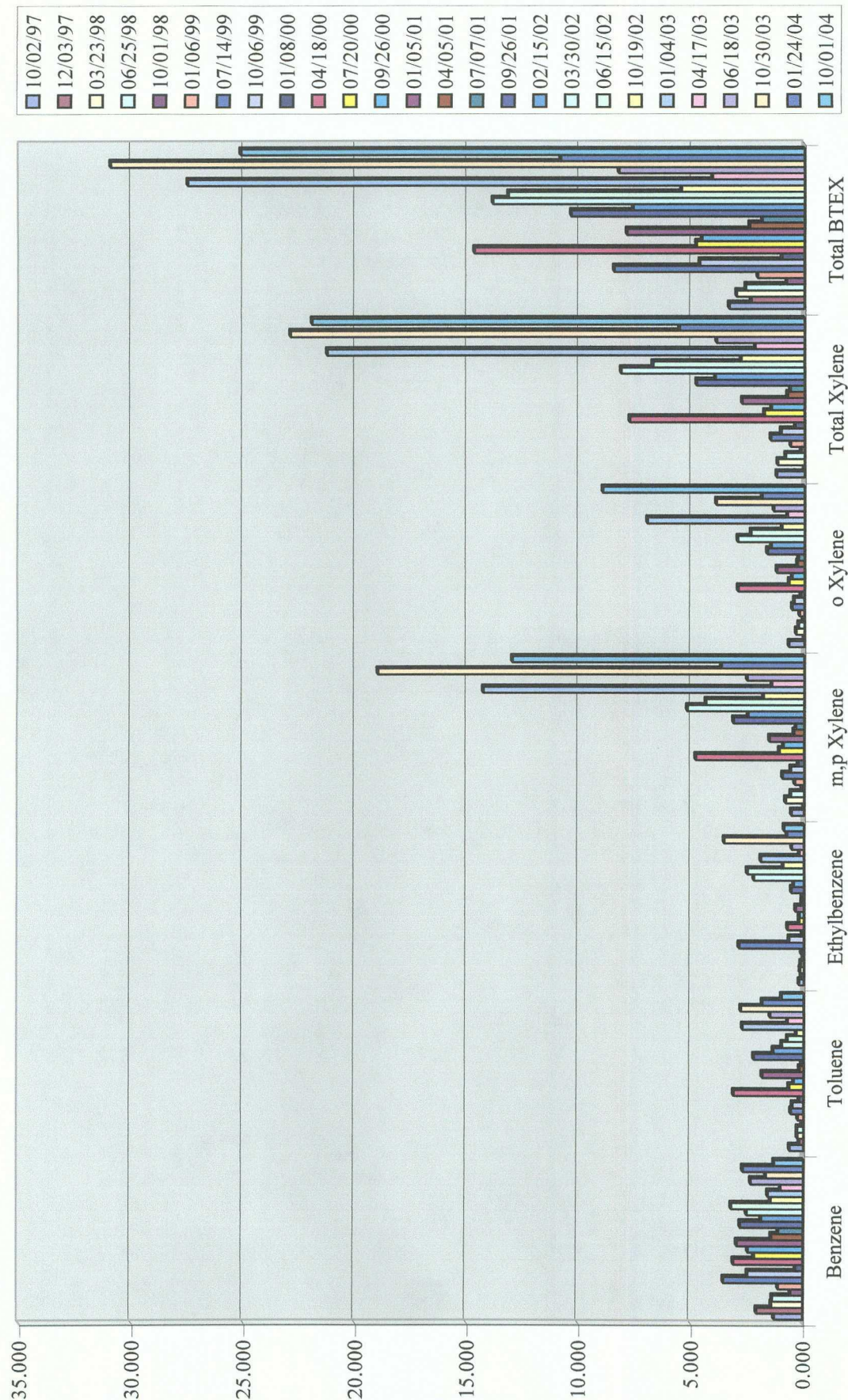
Sohio 1 MW #2



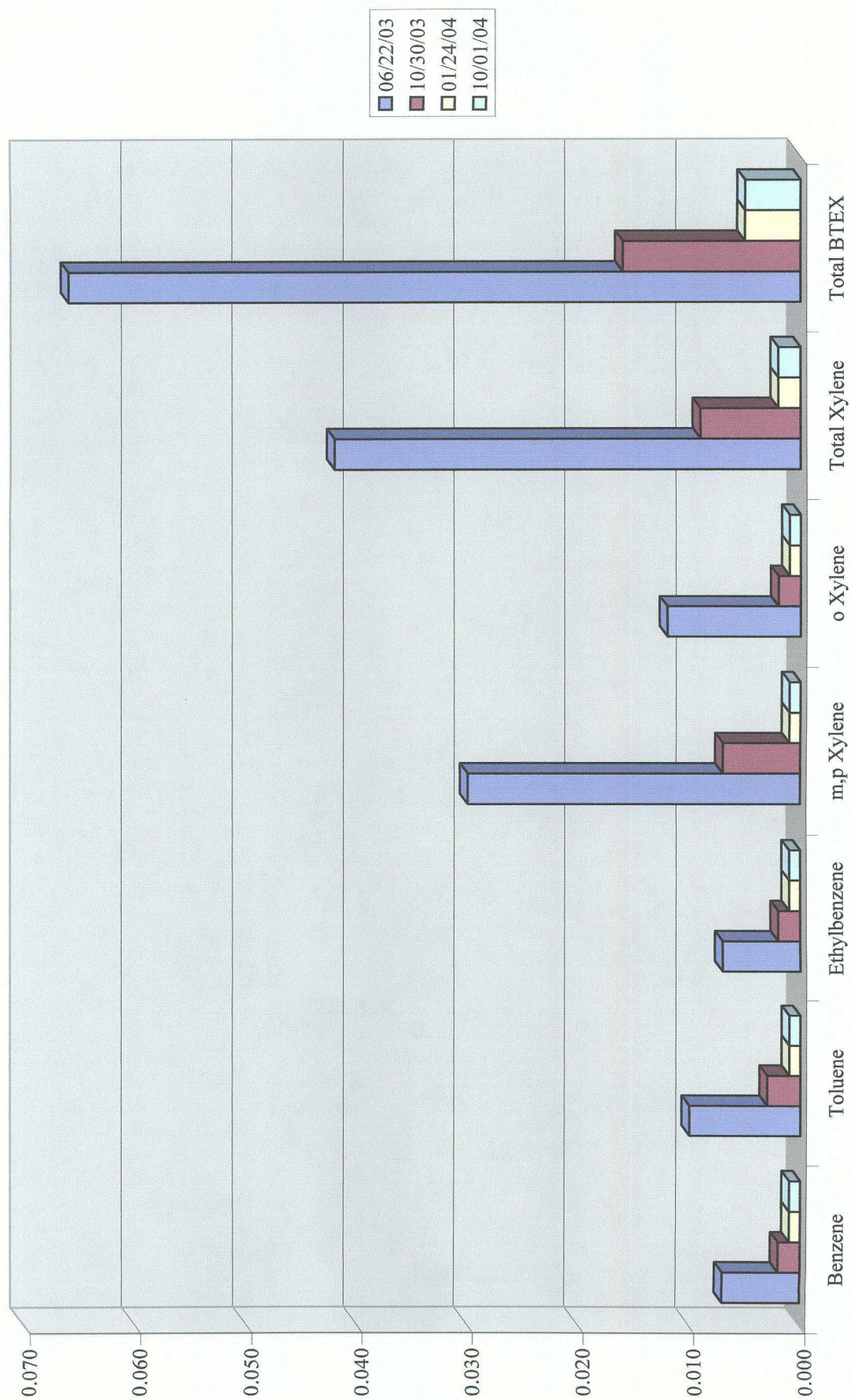
Monitor Well # 3
Sohio State # 1
Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12724	10/02/97	1.276	0.614	0.206	0.553	0.684	1.237	3.333
13188	12/03/97	2.063	0.178	0.118	0.001	0.001	0.002	2.361
14052	03/23/98	1.396	0.269	0.159	0.823	0.366	1.189	3.013
14672	06/25/98	1.357	0.272	0.131	0.589	0.252	0.841	2.601
15609	10/01/98	0.542	0.072	0.025	0.093	0.054	0.147	0.786
16588	01/06/99	1.100	0.247	0.107	0.415	0.203	0.618	2.072
18606	07/14/99	3.540	0.553	2.880	0.967	0.532	1.499	8.472
20616	10/06/99	2.470	0.486	0.660	0.594	0.444	1.038	4.654
22760	01/08/00	0.334	0.186	0.074	0.257	0.149	0.406	1.000
25156	04/18/00	3.100	3.110	0.723	4.820	2.950	7.770	14.703
28447	07/20/00	2.180	0.643	0.204	1.100	0.683	1.783	4.810
31510	09/26/00	2.460	0.432	0.201	0.920	0.544	1.464	4.557
36149	01/05/01	2.950	1.840	0.364	1.540	1.220	2.760	7.914
38933	04/05/01	1.410	0.179	0.095	0.449	0.306	0.755	2.439
0101098-17	07/07/01	1.100	0.077	0.082	0.364	0.257	0.621	1.880
0101642-17	09/26/01	2.810	2.220	0.554	3.150	1.650	4.800	10.384
0202619-17	02/15/02	1.870	1.350	0.453	2.490	1.470	3.960	7.633
0203001-17	03/30/02	2.520	0.967	2.230	5.190	2.970	8.160	13.877
0203602-17	06/15/02	3.200	0.719	2.520	4.370	2.380	6.750	13.189
0204815-20	10/19/02	1.450	0.317	0.920	1.810	0.994	2.804	5.491
0205349-19	01/04/03	1.580	2.730	1.910	14.300	6.980	21.280	27.500
0306249-20	04/17/03	1.010	0.714	0.199	1.440	0.746	2.186	4.109
0306733-03	06/18/03	2.340	1.500	0.534	2.540	1.360	3.900	8.274
0307790-35	10/30/03	1.670	2.800	3.550	19.000	3.920	22.920	30.940
4A26012-03	01/24/04	2.700	1.850	0.754	3.680	1.880	5.560	10.864
4J04011-03	10/01/04	1.300	0.992	0.887	13.000	8.960	21.960	25.139

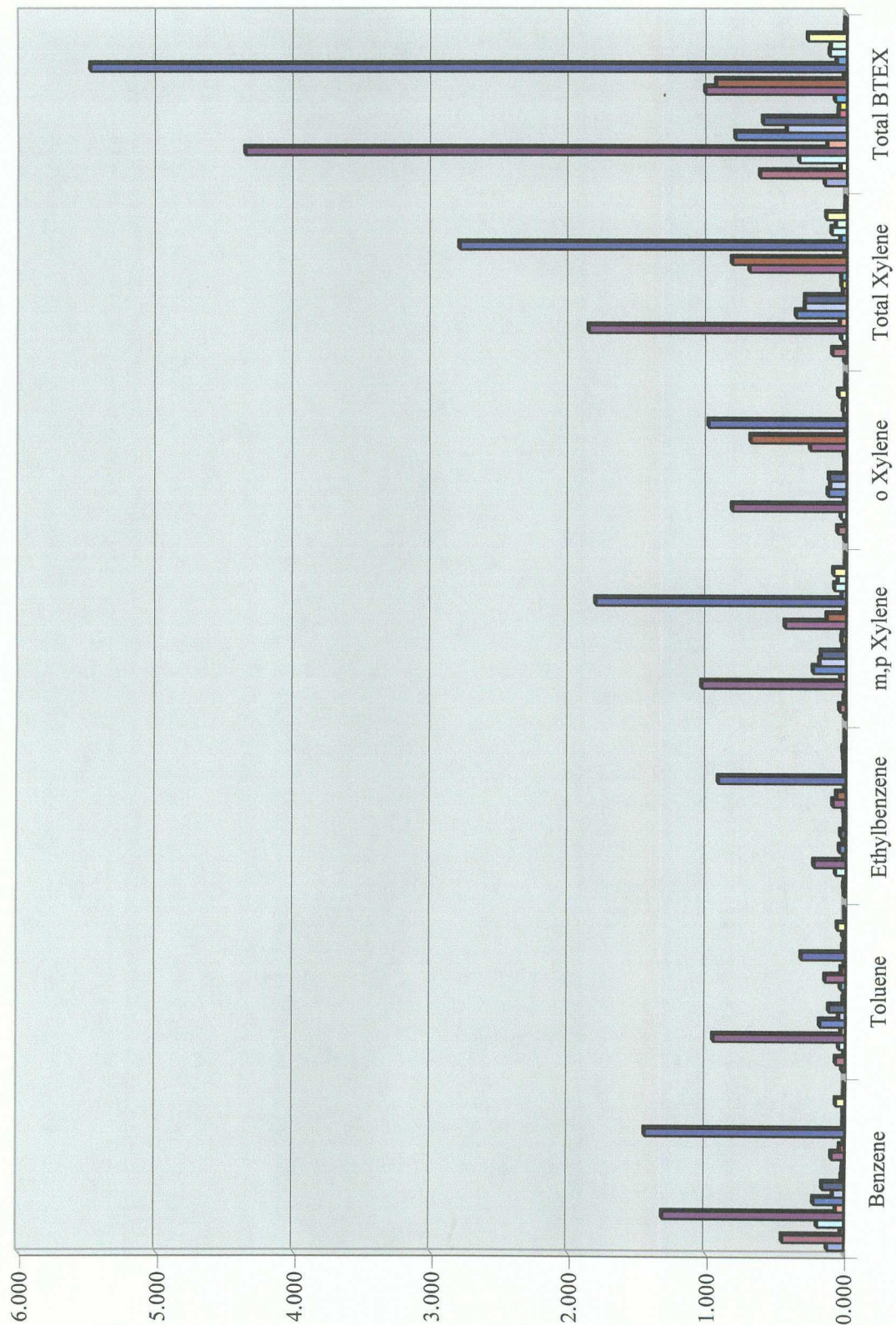
Sohio 1 MW3 3



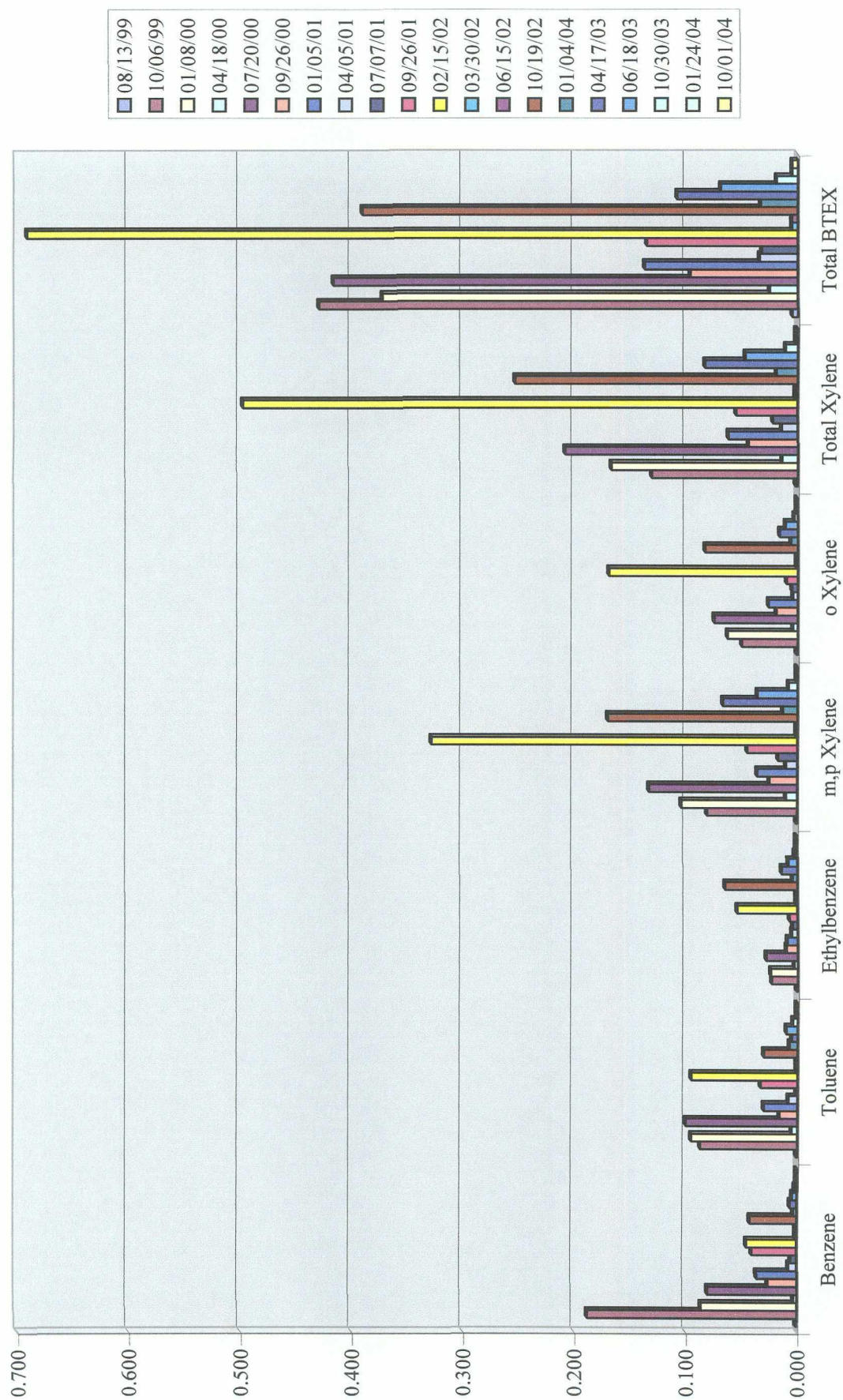
Sohio 1 MW #4



The chart displays the concentration of various VOCs in mg/m³ over time. The Y-axis ranges from 0.000 to 6.000 mg/m³. The X-axis lists the compounds: Benzene, Toluene, Ethylbenzene, m,p Xylene, o Xylene, Total Xylene, and Total BTEX. The legend shows dates from 03/19/99 to 10/01/04. The chart shows significant fluctuations in concentrations over time, with Total BTEX and Total Xylene generally having the highest concentrations.



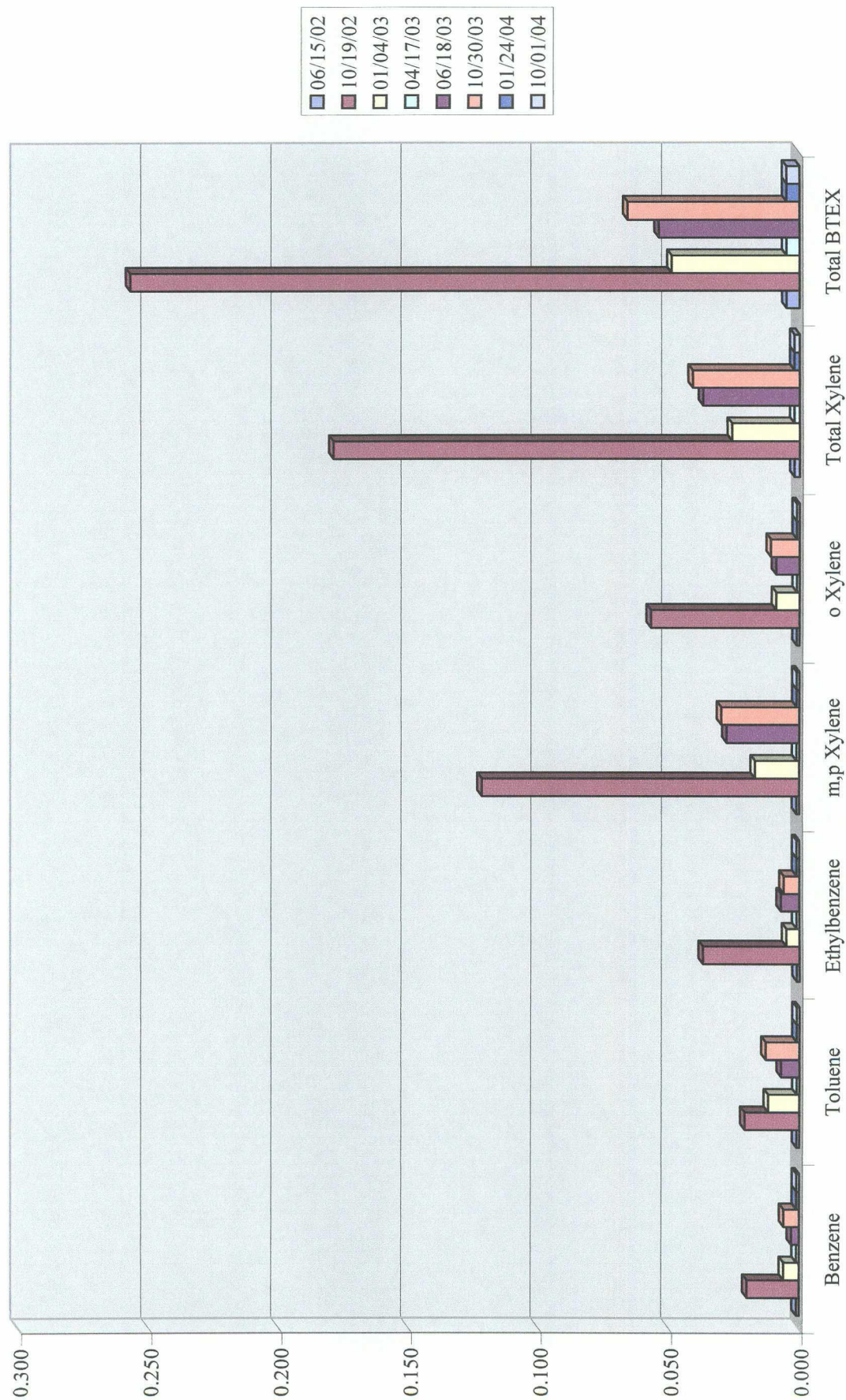
The chart displays the concentration of various aromatic compounds in water samples over time. The y-axis represents concentration from 0.000 to 0.700. The x-axis lists the compounds: Benzene, Toluene, Ethylbenzene, m,p Xylene, o Xylene, Total Xylene, and Total BTEX. The legend shows dates from 08/13/99 to 10/01/04. Total BTEX shows a significant peak in 1999, while individual compounds show more fluctuation over time.



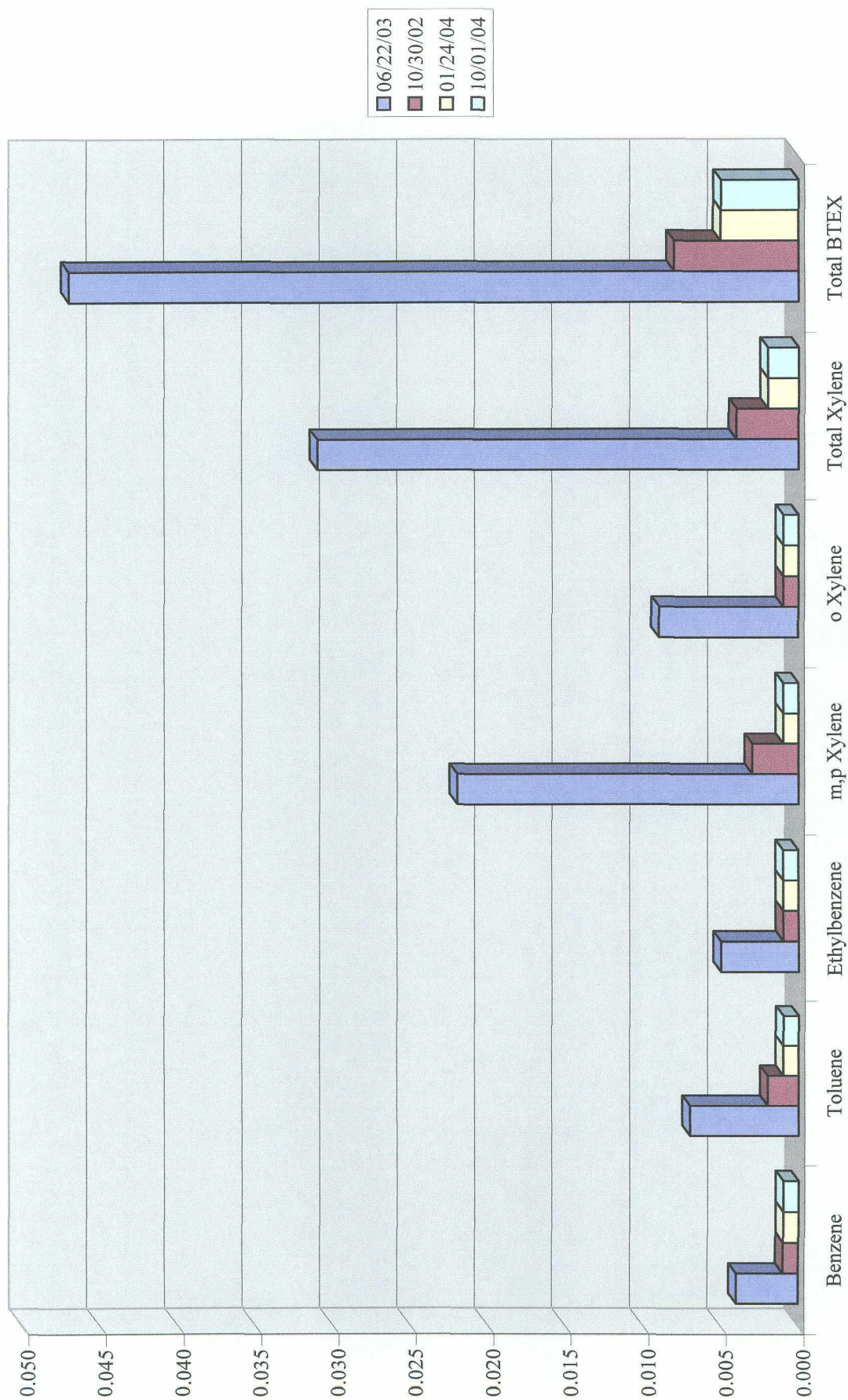
Sampling Results

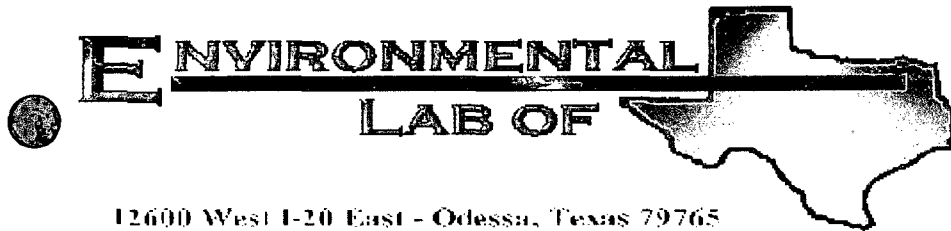
Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0203602-20	06/15/02	0.001	0.001	0.001	0.001	0.001	0.002	0.005
0204815-23	10/19/02	0.020	0.021	0.037	0.122	0.057	0.179	0.257
0205349-22	01/04/03	0.006	0.012	0.005	0.017	0.009	0.026	0.049
0306249-23	04/17/03	0.001	0.001	0.001	0.001	0.001	0.002	0.005
0306733-06	06/18/03	0.003	0.007	0.007	0.028	0.009	0.037	0.054
0307790-39	10/30/03	0.006	0.013	0.006	0.030	0.011	0.041	0.066
4A26012-07	01/24/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4J04011-05	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

Sohio 1 MW #7



Sohio 1 MW #8





Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Sohio 1

Project Number: None Given

Location: None Given

Lab Order Number: 4J04011

Report Date: 10/17/04

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4J04011-01	Water	10/01/04 00:00	10/03/04 13:00
MW-2	4J04011-02	Water	10/01/04 00:00	10/03/04 13:00
MW-3	4J04011-03	Water	10/01/04 00:00	10/03/04 13:00
MW-4	4J04011-04	Water	10/01/04 00:00	10/03/04 13:00
MW-5	4J04011-05	Water	10/01/04 00:00	10/03/04 13:00
MW-6	4J04011-06	Water	10/01/04 00:00	10/03/04 13:00
MW-7	4J04011-07	Water	10/01/04 00:00	10/03/04 13:00
MW-8	4J04011-08	Water	10/01/04 00:00	10/03/04 13:00

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04011-01) Water									
Benzene	155	1.00	mg/L	1000	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	75.3	1.00	"	"	"	"	"	"	
Ethylbenzene	145	1.00	"	"	"	"	"	"	
Xylene (p/m)	882	1.00	"	"	"	"	"	"	
Xylene (o)	459	1.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		895 %		80-120	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		96.5 %		80-120	"	"	"	"	
MW-2 (4J04011-02) Water									
Benzene	1.47	0.00500	mg/L	5	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	0.0131	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.193	0.00500	"	"	"	"	"	"	
Xylene (p/m)	1.68	0.00500	"	"	"	"	"	"	
Xylene (o)	0.0223	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		415 %		80-120	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		144 %		80-120	"	"	"	"	S-04
MW-3 (4J04011-03) Water									
Benzene	1.30	0.100	mg/L	100	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	0.992	0.100	"	"	"	"	"	"	
Ethylbenzene	0.887	0.100	"	"	"	"	"	"	
Xylene (p/m)	13.0	0.100	"	"	"	"	"	"	
Xylene (o)	8.96	0.100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.0 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.5 %		80-120	"	"	"	"	
MW-4 (4J04011-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		117 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.0 %		80-120	"	"	"	"	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4J04011-05) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	I [0.000275]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000460]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00112	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000710]	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		"	"	"	"	
MW-6 (4J04011-06) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000797]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		"	"	"	"	
MW-7 (4J04011-07) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	
MW-8 (4J04011-08) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04011-01) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	444	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	1670	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	14.4	0.500	"	"	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-2 (4J04011-02) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	368	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	1680	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	16.2	0.500	"	"	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-3 (4J04011-03) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	500	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	1970	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	19.0	0.500	"	"	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-4 (4J04011-04) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	192	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	53.2	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	169	1.25	"	2.5	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-5 (4J04011-05) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	464	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	1170	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	195	1.25	"	2.5	EJ40904	10/09/04	10/09/04	EPA 375.4	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (4J04011-06) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	264	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	142	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	151	1.25	"	2.5	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-7 (4J04011-07) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	164	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	49.6	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	122	1.25	"	2.5	EJ40904	10/09/04	10/09/04	EPA 375.4	
MW-8 (4J04011-08) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	120	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	1120	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	115	1.25	"	2.5	EJ40904	10/09/04	10/09/04	EPA 375.4	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04011-01) Water									
Calcium	370	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	131	0.100	"	"	"	"	"	"	
Potassium	8.47	0.100	"	2	"	"	"	"	
Sodium	651	10.0	"	1000	"	"	"	"	
MW-2 (4J04011-02) Water									
Calcium	684	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	181	0.100	"	100	"	"	"	"	
Potassium	8.85	0.100	"	2	"	"	"	"	
Sodium	278	1.00	"	100	"	"	"	"	
MW-3 (4J04011-03) Water									
Calcium	279	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	112	0.100	"	"	"	"	"	"	
Potassium	9.62	0.100	"	2	"	"	"	"	
Sodium	850	10.0	"	1000	"	"	"	"	
MW-4 (4J04011-04) Water									
Calcium	47.5	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	9.43	0.0100	"	10	"	"	"	"	
Potassium	5.14	0.100	"	2	"	"	"	"	
Sodium	82.1	1.00	"	100	"	"	"	"	
MW-5 (4J04011-05) Water									
Calcium	240	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	44.8	0.0100	"	10	"	"	"	"	
Potassium	12.1	0.250	"	5	"	"	"	"	
Sodium	597	10.0	"	1000	"	"	"	"	
MW-6 (4J04011-06) Water									
Calcium	145	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	22.4	0.0100	"	10	"	"	"	"	
Potassium	5.50	0.100	"	2	"	"	"	"	
Sodium	63.1	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio I
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (4J04011-07) Water									
Calcium	80.8	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	11.3	0.0100	"	10	"	"	"	"	
Potassium	3.31	0.100	"	2	"	"	"	"	
Sodium	49.7	0.100	"	10	"	"	"	"	
MW-8 (4J04011-08) Water									
Calcium	642	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	88.8	0.100	"	100	"	"	"	"	
Potassium	10.0	0.100	"	2	"	"	"	"	
Sodium	88.2	1.00	"	100	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ41301 - EPA 5030C (GC)

Blank (EJ41301-BLK1)

Prepared & Analyzed: 10/11/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	19.9		ug/l	20.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	17.6		"	20.0		88.0	80-120			

LCS (EJ41301-BS1)

Prepared & Analyzed: 10/11/04

Benzene	105		ug/l	100		105	80-120			
Toluene	113		"	100		113	80-120			
Ethylbenzene	112		"	100		112	80-120			
Xylene (p/m)	223		"	200		112	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.8		"	20.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			

LCS Dup (EJ41301-BSD1)

Prepared & Analyzed: 10/11/04

Benzene	101		ug/l	100		101	80-120	3.88	20	
Toluene	110		"	100		110	80-120	2.69	20	
Ethylbenzene	107		"	100		107	80-120	4.57	20	
Xylene (p/m)	214		"	200		107	80-120	4.57	20	
Xylene (o)	106		"	100		106	80-120	4.61	20	
Surrogate: a,a,a-Trifluorotoluene	20.6		"	20.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	18.5		"	20.0		92.5	80-120			

Calibration Check (EJ41301-CCV1)

Prepared & Analyzed: 10/11/04

Benzene	110		ug/l	100		110	80-120			
Toluene	112		"	100		112	80-120			
Ethylbenzene	107		"	100		107	80-120			
Xylene (p/m)	222		"	200		111	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.1		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120			

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ41301 - EPA 5030C (GC)

Matrix Spike (EJ41301-MS1)

Source: 4J04012-09

Prepared & Analyzed: 10/11/04

Benzene	114		ug/l	100	ND	114	80-120			
Toluene	117		"	100	ND	117	80-120			
Ethylbenzene	110		"	100	ND	110	80-120			
Xylene (p/m)	227		"	200	ND	114	80-120			
Xylene (o)	115		"	100	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.5		"	20.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ40901 - General Preparation (WetChem)

Blank (EJ40901-BLK1)

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	ND	0.200	mg/L
Bicarbonate Alkalinity	ND	4.00	"
Hydroxide Alkalinity	ND	0.200	"

Duplicate (EJ40901-DUP1)

Source: 4J04003-01

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	0.00	0.200	mg/L	0.00				20	O-04
Bicarbonate Alkalinity	310	4.00	"	312			0.643	20	O-04
Hydroxide Alkalinity	0.00	0.200	"	0.00				20	O-04

Reference (EJ40901-SRM1)

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	0.0501		mg/L	0.0500	100	80-120
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Batch EJ40904 - General Preparation (WetChem)

Blank (EJ40904-BLK1)

Prepared & Analyzed: 10/09/04

Sulfate	ND	0.500	mg/L
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Calibration Check (EJ40904-CCV1)

Prepared & Analyzed: 10/09/04

Sulfate	48.9		mg/L	50.0	97.8	80-120
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Duplicate (EJ40904-DUP1)

Source: 4J04004-01

Prepared & Analyzed: 10/09/04

Sulfate	168	1.25	mg/L	170		1.18	20
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Batch EJ40907 - General Preparation (WetChem)

Blank (EJ40907-BLK1)

Prepared & Analyzed: 10/09/04

Chloride	ND	5.00	mg/L
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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio I
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ40907 - General Preparation (WetChem)

Matrix Spike (EJ40907-MS1) **Source: 4J04011-02** Prepared & Analyzed: 10/09/04

Chloride	2180	5.00	mg/L	500	1680	100	80-120			
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Matrix Spike Dup (EJ40907-MSD1) **Source: 4J04011-02** Prepared & Analyzed: 10/09/04

Chloride	2170	5.00	mg/L	500	1680	98.0	80-120	0.460	20	
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Reference (EJ40907-SRM1) Prepared & Analyzed: 10/09/04

Chloride	4960		mg/L	5000		99.2	80-120			
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Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio I
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch EJ41303 - 6010B/No Digestion

Blank (EJ41303-BLK1)

Prepared & Analyzed: 10/12/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EJ41303-CCV1)

Prepared & Analyzed: 10/12/04

Calcium	2.16		mg/L	2.00		108	85-115			
Magnesium	2.19		"	2.00		110	85-115			
Potassium	1.84		"	2.00		92.0	85-115			
Sodium	1.87		"	2.00		93.5	85-115			

Duplicate (EJ41303-DUP1)

Source: 4J04012-01

Prepared & Analyzed: 10/12/04

Calcium	2320	10.0	mg/L		2390			2.97	20	
Magnesium	254	0.100	"		256			0.784	20	
Potassium	27.4	0.500	"		27.7			1.09	20	
Sodium	1600	10.0	"		1680			4.88	20	

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WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio 1
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:15

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

O-04 This sample was analyzed outside the EPA recommended holding time.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

10/17/04

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

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

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Environmental Lab of Texas

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