GW - 350

MONITORING REPORTS

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H2A ENVIRONMENTAL, LTD.

ANNUAL 2003 GROUNDWATER MONITORING REPORT

JAL BASIN STATION
JAL, LEA COUNTY, NEW MEXICO

H2A JOB NO. 106.001

Prepared for:

Shell Oil Products US
Shell Pipeline Company LP

Approved by:

Monica Slentz
Project Manager

March 2004

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INTRODUCTION

H_2A Environmental, Ltd. (H_2A) has completed the annual groundwater monitoring for the Jal Basin Station site located south of Jal, New Mexico. Monitoring events were conducted at the site in March, June, September, and December 2003. Results of monitoring and investigation activities are summarized in the following text.

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities consisted of gauging the water levels in all the monitoring wells, then purging three well volumes from all wells not exhibiting measurable light non-aqueous phase liquids (LNAPL). After the monitoring wells had been purged, groundwater samples were collected and submitted to a certified laboratory. Samples were collected on a quarterly basis during 2003 and analyzed for determination of BTEX concentrations. During the fourth quarter monitoring event samples were also analyzed for determination of metals and PAH concentrations.

Groundwater samples collected for BTEX (Method SW846-8021B) analysis were placed in sterile, 40 ml glass VOA vials equipped with Teflon-lined caps and HCl preservative, as provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the absence of air bubbles.

Groundwater samples collected for metals analysis (Methods 6010B and 7470A) were placed in 500 ml sterile plastic containers equipped with Teflon-lined caps and HNO_3 preservative, as provided by the analytical laboratory.

Groundwater samples collected for PAH analysis were collected in unpreserved sterile one liter glass containers equipped with Teflon-lined caps.

Filled sample containers were labeled, placed on ice in an insulated cooler, and chilled to an approximate temperature of 40°F (4°C). The cooler was sealed for transportation to the analytical laboratory. Proper chain of custody documentation was maintained throughout the sampling process.

GROUNDWATER MEASUREMENTS

Groundwater measurements were obtained on March 22, June 18, September 22, December 22, and December 23, 2003. Groundwater contour maps illustrating groundwater elevations measured during each quarterly event are presented as FIG. 2 through 5. Groundwater measurements are summarized in TABLE I.

LNAPL thicknesses varied from ND to 5.00 feet during the annual period. LNAPL thicknesses measured in December 2003 ranged from ND to 4.35 feet. Quarterly LNAPL thickness maps are presented as FIGs 6 through 9.

Groundwater monitoring data sheets completed in 2003 are presented in APPENDIX C.

GROUNDWATER MONITORING RESULTS

Laboratory results for groundwater samples obtained during the four quarterly monitoring events were determined to have the following range of hydrocarbon concentrations:

PARAMETER	CONCENTRATION RANGE (mg/l)
Benzene	<0.00100 to <0.00500
BTEX	<0.00100 to <0.00500
PAH	<0.000200 to 0.000200
Metals	<0.000200 to 0.442

Hydrocarbon constituent concentrations for each quarterly event are summarized in TABLES II and III. Copies of the certified laboratory reports and chain of custody documentation are presented in APPENDIX A.

PRODUCT RECOVERY ACTIVITIES

The HVR system startup was initiated on January 4, 2001. A second liquid ring pump (LRP) was added to the system in July, 2002. During 2003, the original LRP failed and was replaced.

There are currently to LRPs in operation at the site. The following table presents the volume and rate of groundwater and LNAPL recovered through December 26, 2003.

Parameter	Volume Recovered (gallons)	Rate of Recovery (gallons / day)
Groundwater	1,856,626	1,665
LNAPL (diesel)	51,797	46.5

All water recovered and treated during remediation is injected back into the formation via on-site infiltration wells, designated IW-1 and IW-2. A summary of product recovery data is presented in TABLE IV.

As the diesel storage tank reaches capacity, E&E Environmental located in Odessa, Texas, transports the recovered diesel off-site to their Brownfield, Texas facility. Approximately 4,600 gallons of diesel were transported off-site during 2003. A copy of the disposal ticket is presented in APPENDIX D.

EFFLUENT SAMPLING AND RESULTS

Effluent samples are obtained, preserved, and analyzed using the same procedures outlined above for groundwater sampling. The effluent laboratory results are summarized in TABLES V through VIII. Copies of the certified laboratory reports and chain of custody documentation are presented in APPENDIX B.

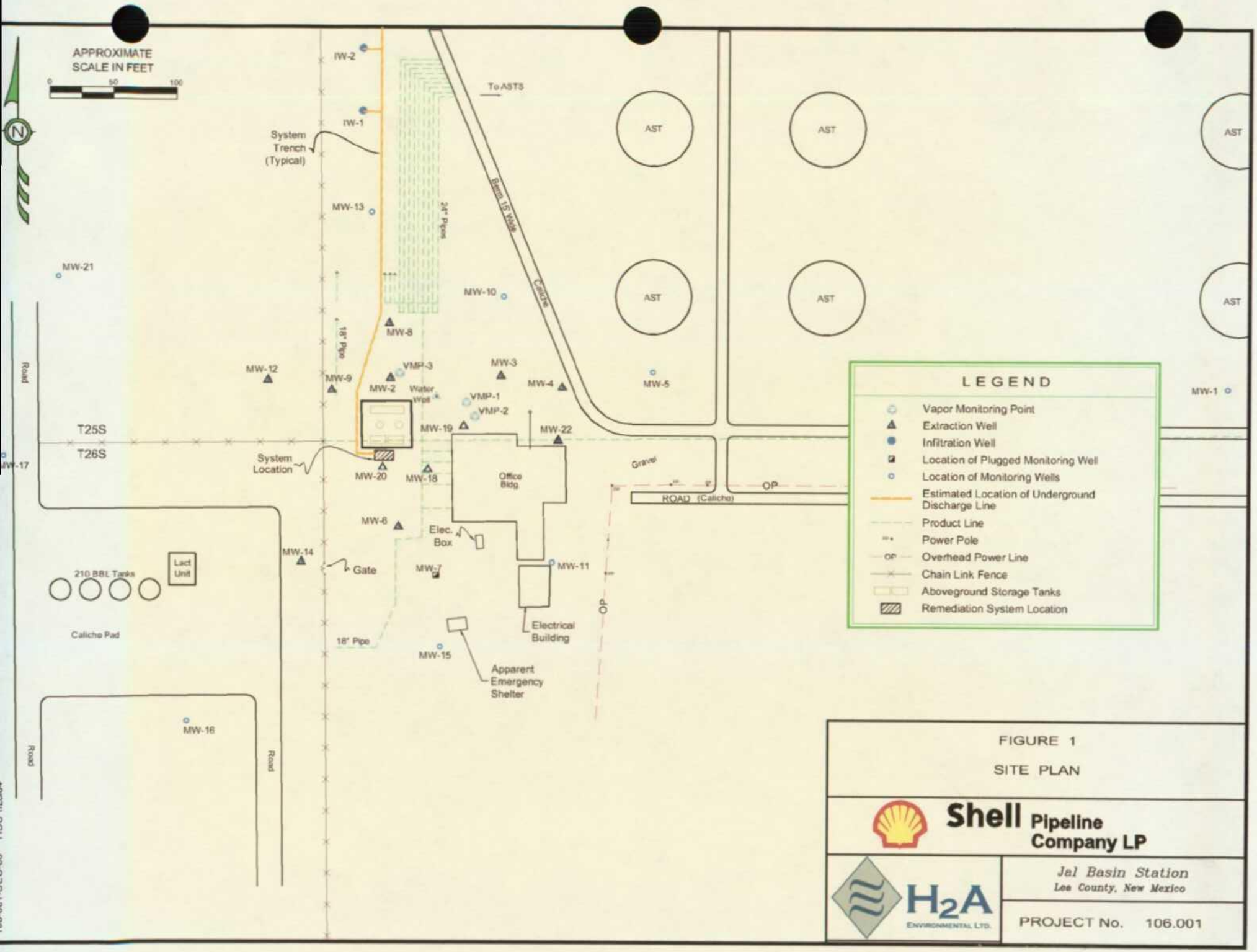


FIGURE 1

SITE PLAN

Shell Pipeline Company LP

H2A Environmental Ltd.

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

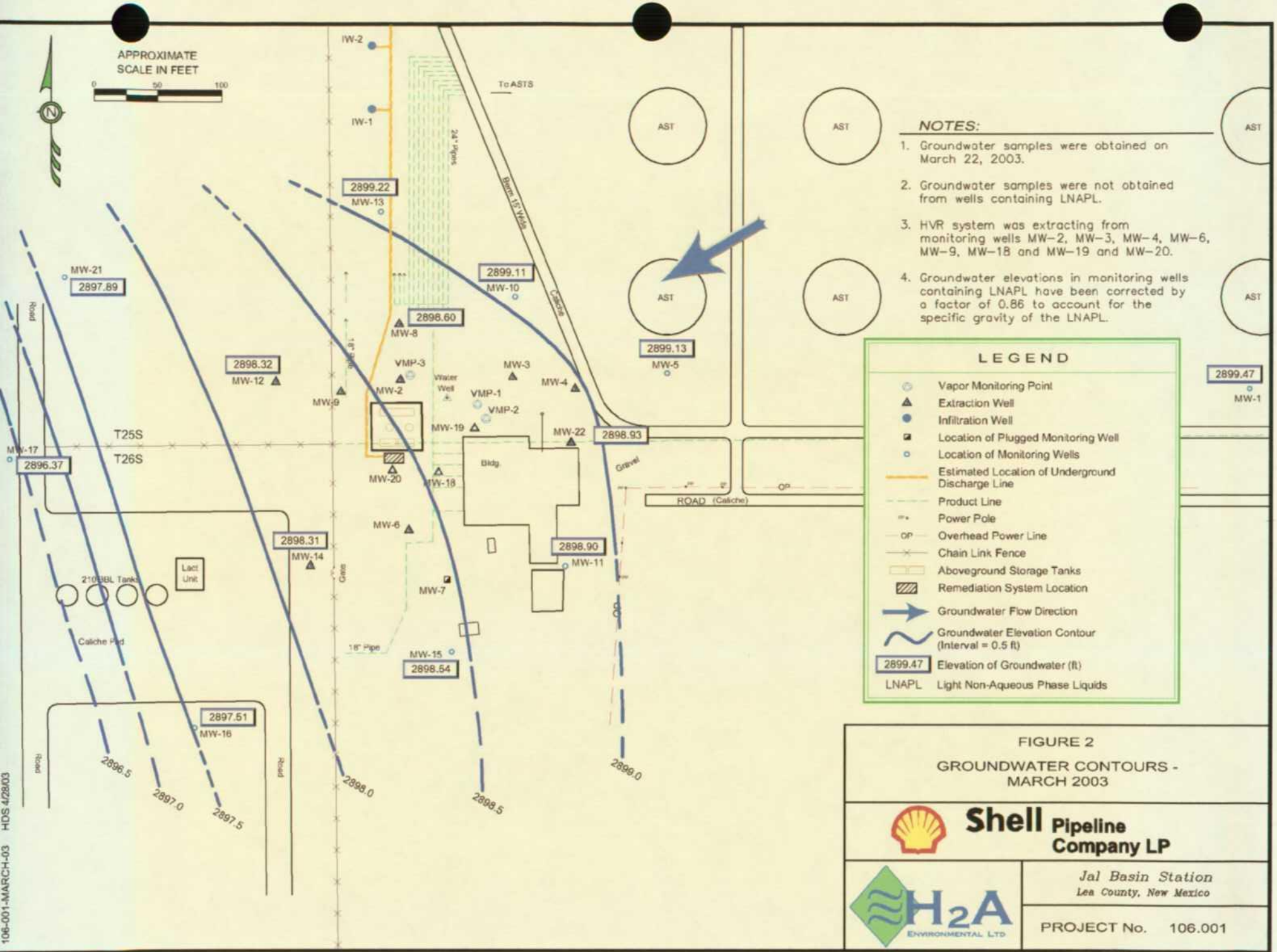


FIGURE 2

GROUNDWATER CONTOURS - MARCH 2003

Shell Pipeline Company LP

H2A ENVIRONMENTAL LTD

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-MARCH-03 HDS 4/28/03

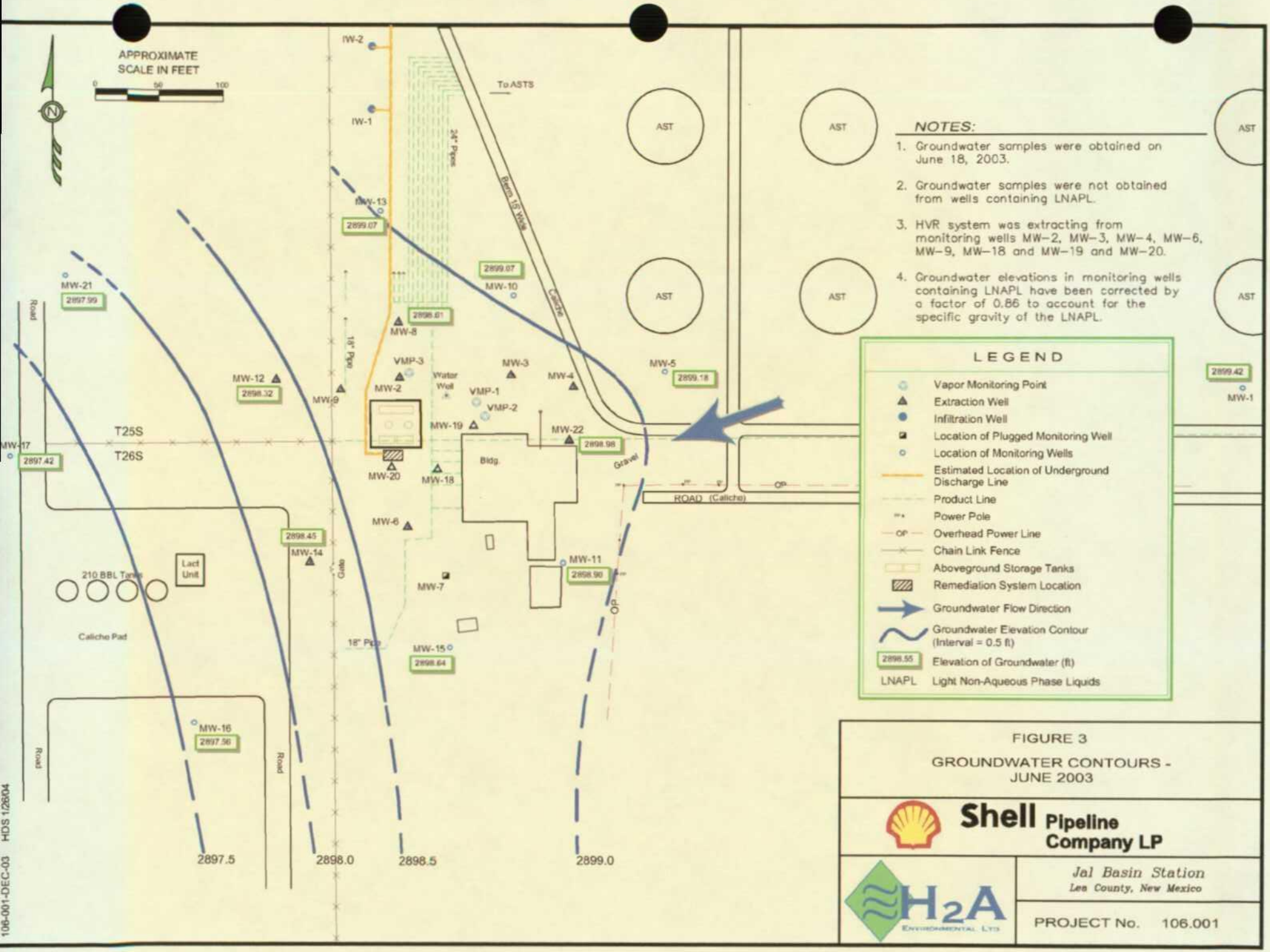


FIGURE 3

GROUNDWATER CONTOURS - JUNE 2003

Shell Pipeline Company LP

H2A Environmental, Ltd.

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 1/26/04

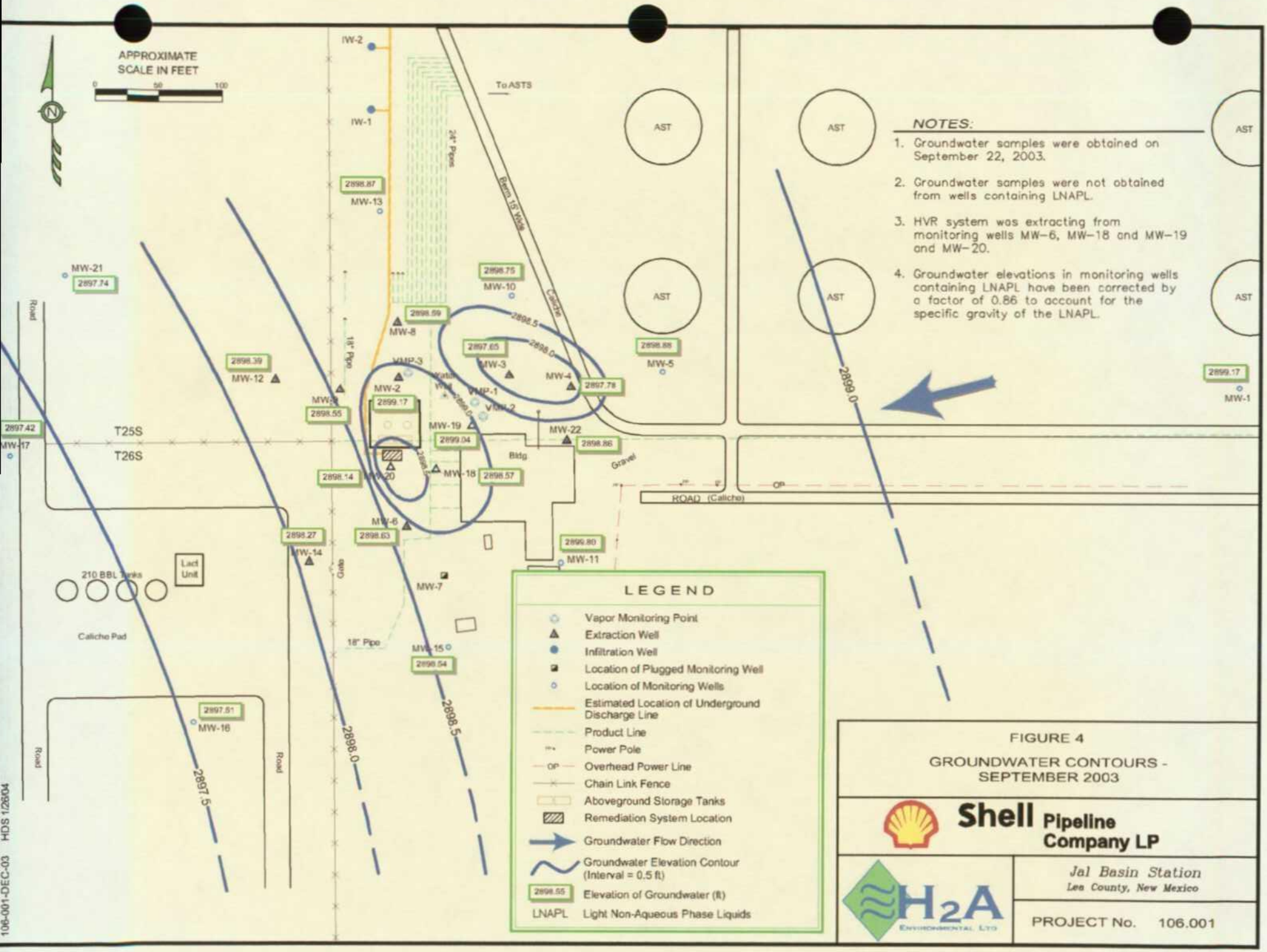


FIGURE 4

GROUNDWATER CONTOURS - SEPTEMBER 2003

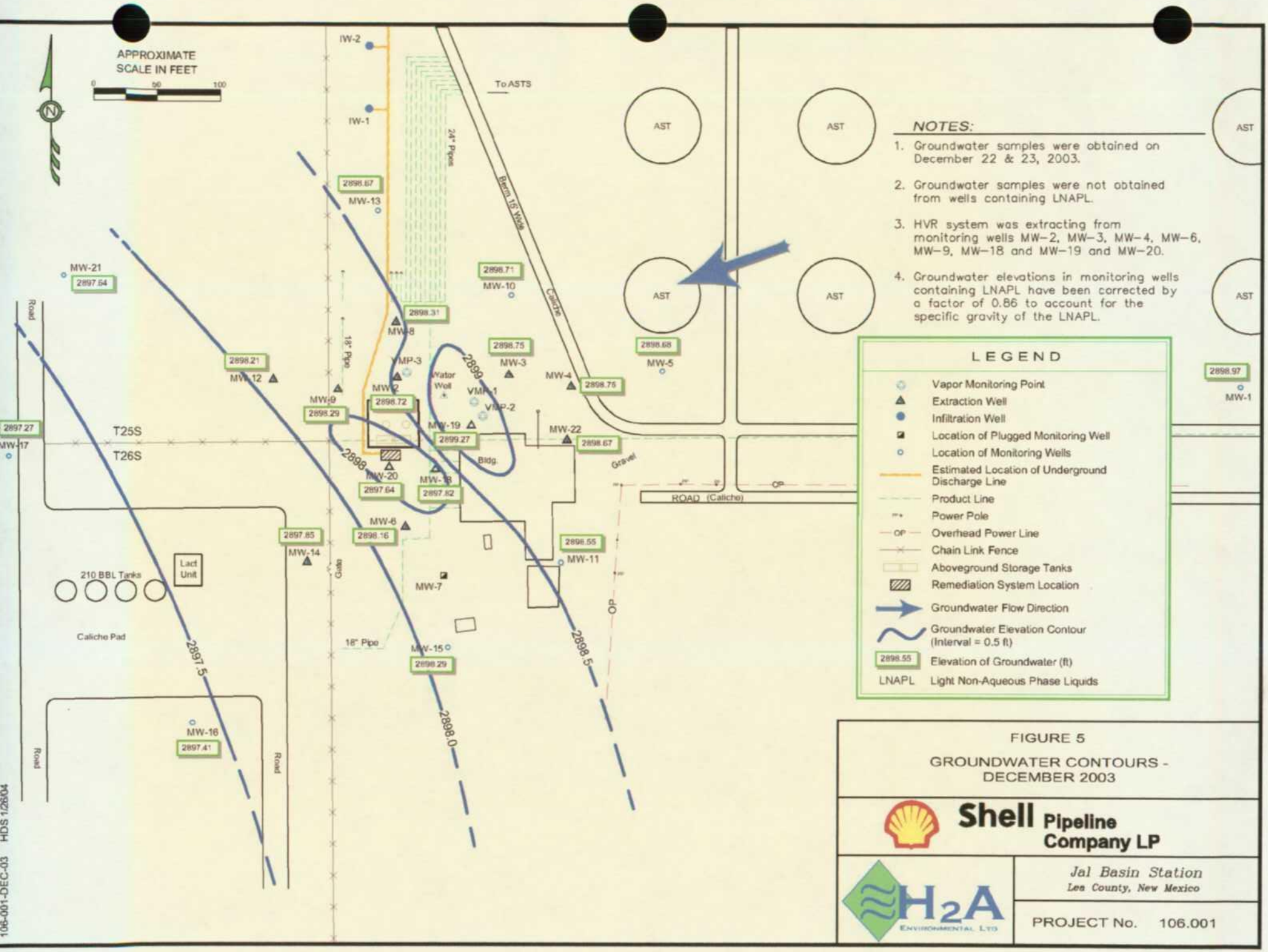
Shell Pipeline Company LP

H2A Environmental Ltd

Jal Basin Station
Lee County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 12/8/04


APPROXIMATE
SCALE IN FEET
0
50
100
N
IW-2
IW-1
To ASTS
24" Pipe
Berm 15' Wide
Caliche
AST
AST
AST
AST
AST
NOTES:
1. Groundwater samples were obtained on December 22 & 23, 2003.
2. Groundwater samples were not obtained from wells containing LNAPL.
3. HVR system was extracting from monitoring wells MW-2, MW-3, MW-4, MW-6, MW-9, MW-18 and MW-19 and MW-20.
4. Groundwater elevations in monitoring wells containing LNAPL have been corrected by a factor of 0.86 to account for the specific gravity of the LNAPL.
LEGEND
Vapor Monitoring Point
Extraction Well
Infiltration Well
Location of Plugged Monitoring Well
Location of Monitoring Wells
Estimated Location of Underground Discharge Line
Product Line
Power Pole
Overhead Power Line
Chain Link Fence
Aboveground Storage Tanks
Remediation System Location
Groundwater Flow Direction
Groundwater Elevation Contour (Interval = 0.5 ft)
2898.55 Elevation of Groundwater (ft)
LNAPL Light Non-Aqueous Phase Liquids
MW-21
2897.54
MW-13
2898.67
MW-10
2898.71
MW-8
2898.31
MW-12
2898.21
MW-3
2898.75
MW-4
2898.76
MW-5
2898.68
MW-1
2898.97
MW-9
2898.29
MW-2
2898.72
MW-19
2899.27
MW-22
2898.67
MW-17
2897.27
MW-20
2897.64
MW-18
2897.82
MW-6
2898.16
MW-14
2897.85
MW-11
2898.55
MW-7
MW-15
2898.29
MW-16
2897.41
T25S
T26S
Road
Road
Road
Caliche Pad
210 BBL Tanks
Lact Unit
Bldg.
Gravel
ROAD (Caliche)
OP
18" Pipe
2897.5
2898
2898.5
2898.0
FIGURE 5
GROUNDWATER CONTOURS - DECEMBER 2003
Shell Pipeline Company LP
H2A Environmental Ltd
Jal Basin Station
Lea County, New Mexico
PROJECT No. 106.001
106-001-DEC-03 HDS 12/8/04

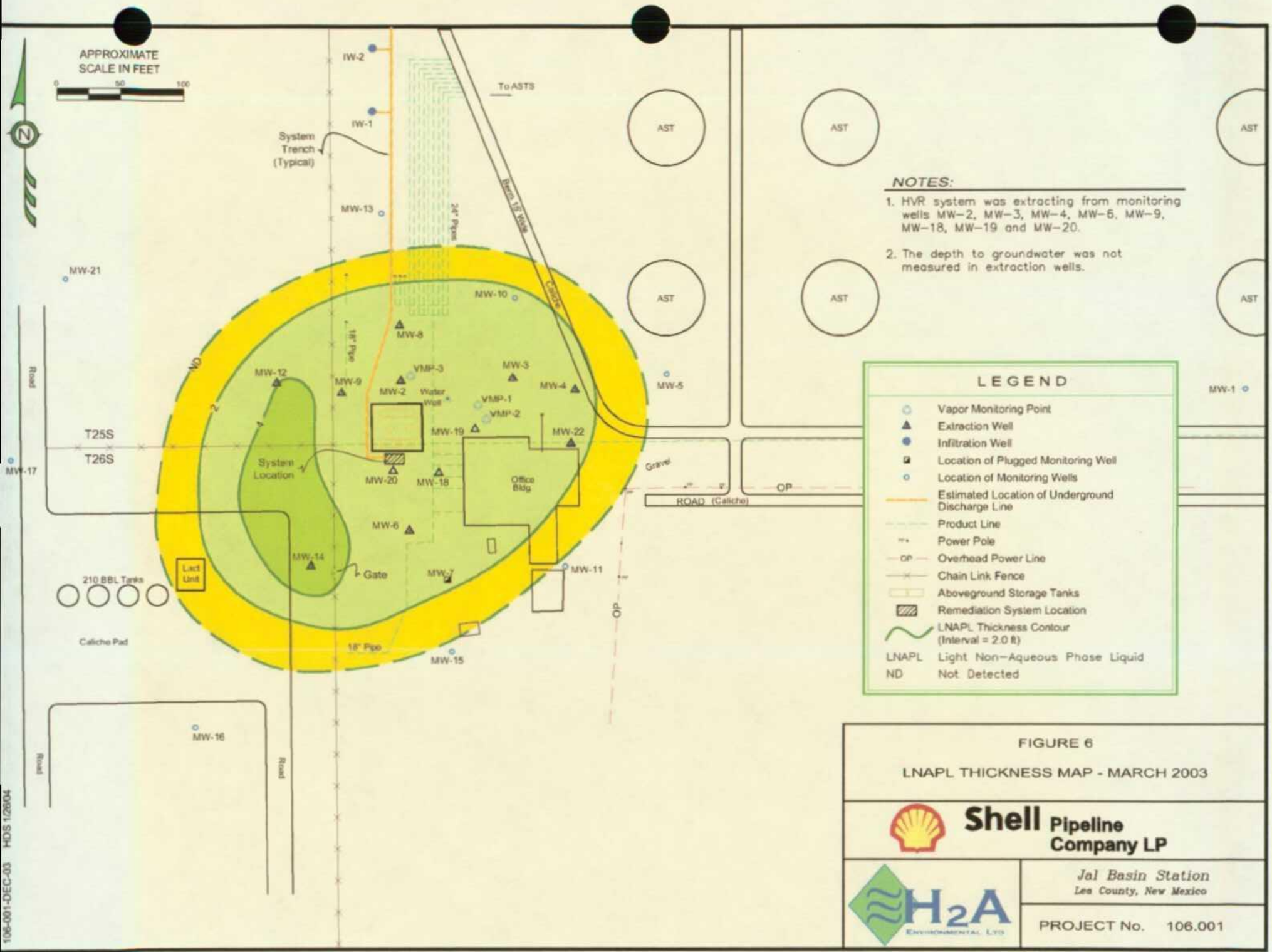


FIGURE 6

LNAPL THICKNESS MAP - MARCH 2003

Shell Pipeline Company LP

H2A Environmental, LTD

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 1/28/04

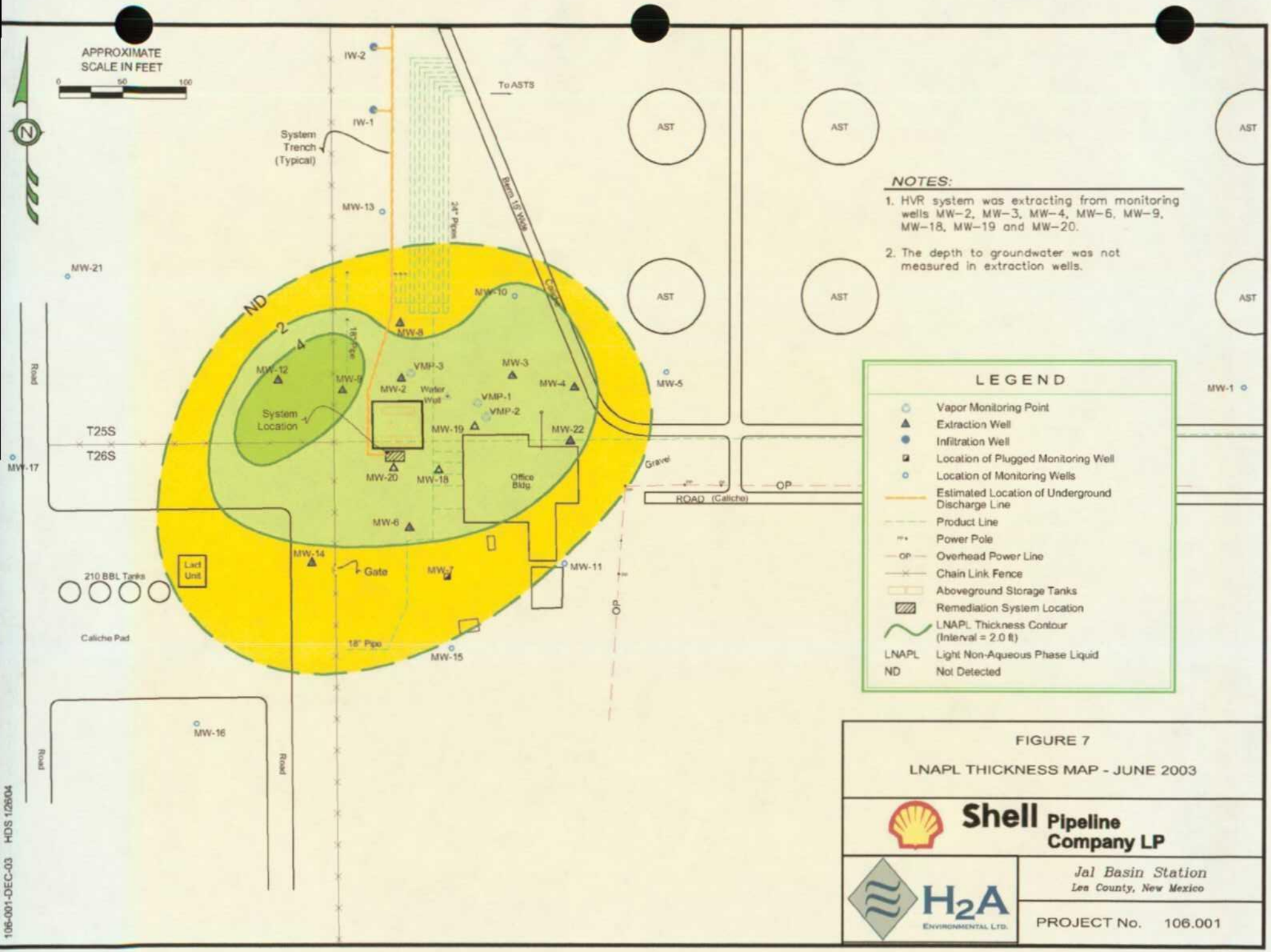


FIGURE 7

LNAPL THICKNESS MAP - JUNE 2003

Shell Pipeline Company LP

H2A ENVIRONMENTAL LTD.

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 1/26/04

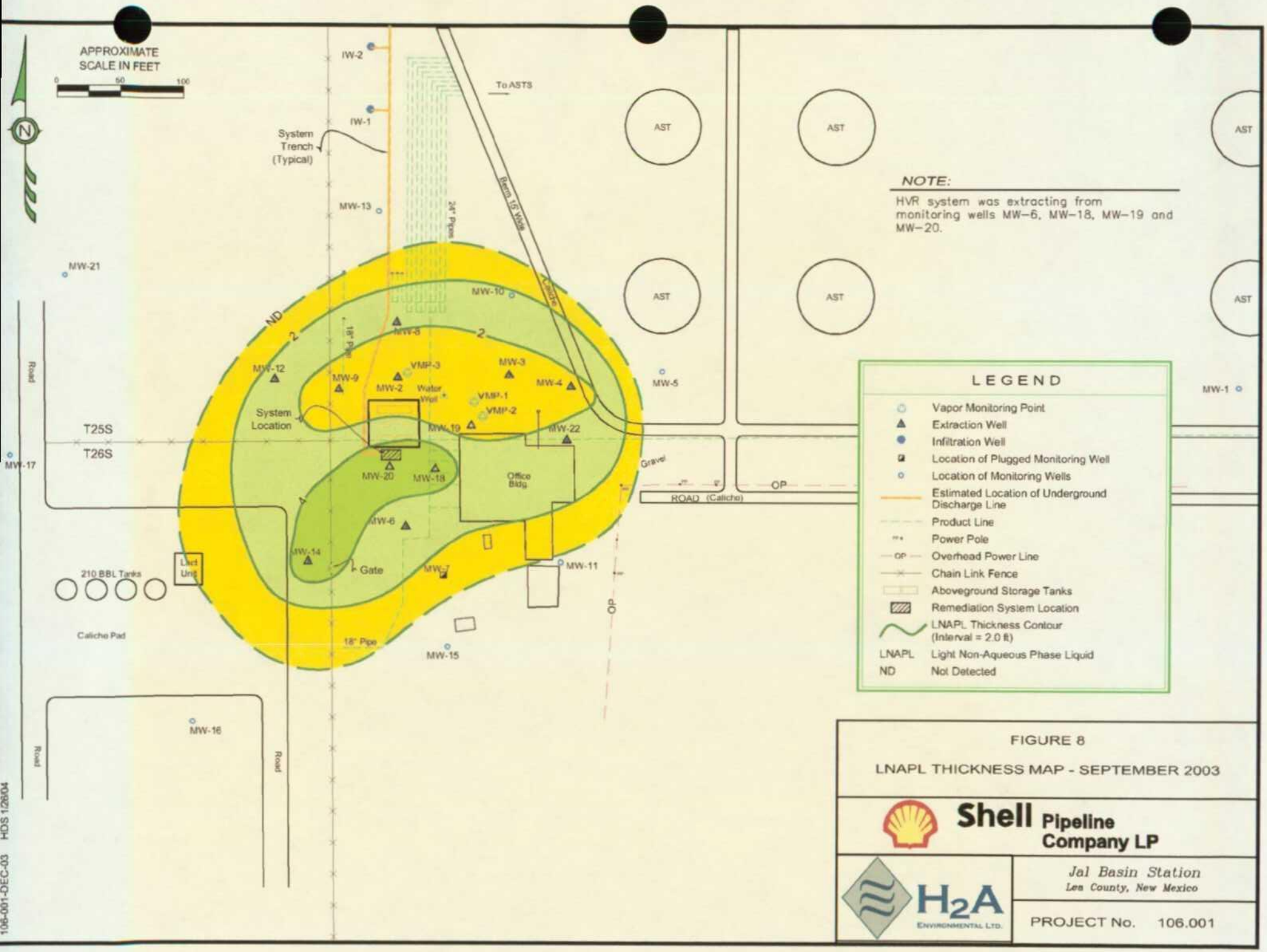


FIGURE 8

LNAPL THICKNESS MAP - SEPTEMBER 2003

Shell Pipeline Company LP

H2A ENVIRONMENTAL LTD.

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 1/28/04

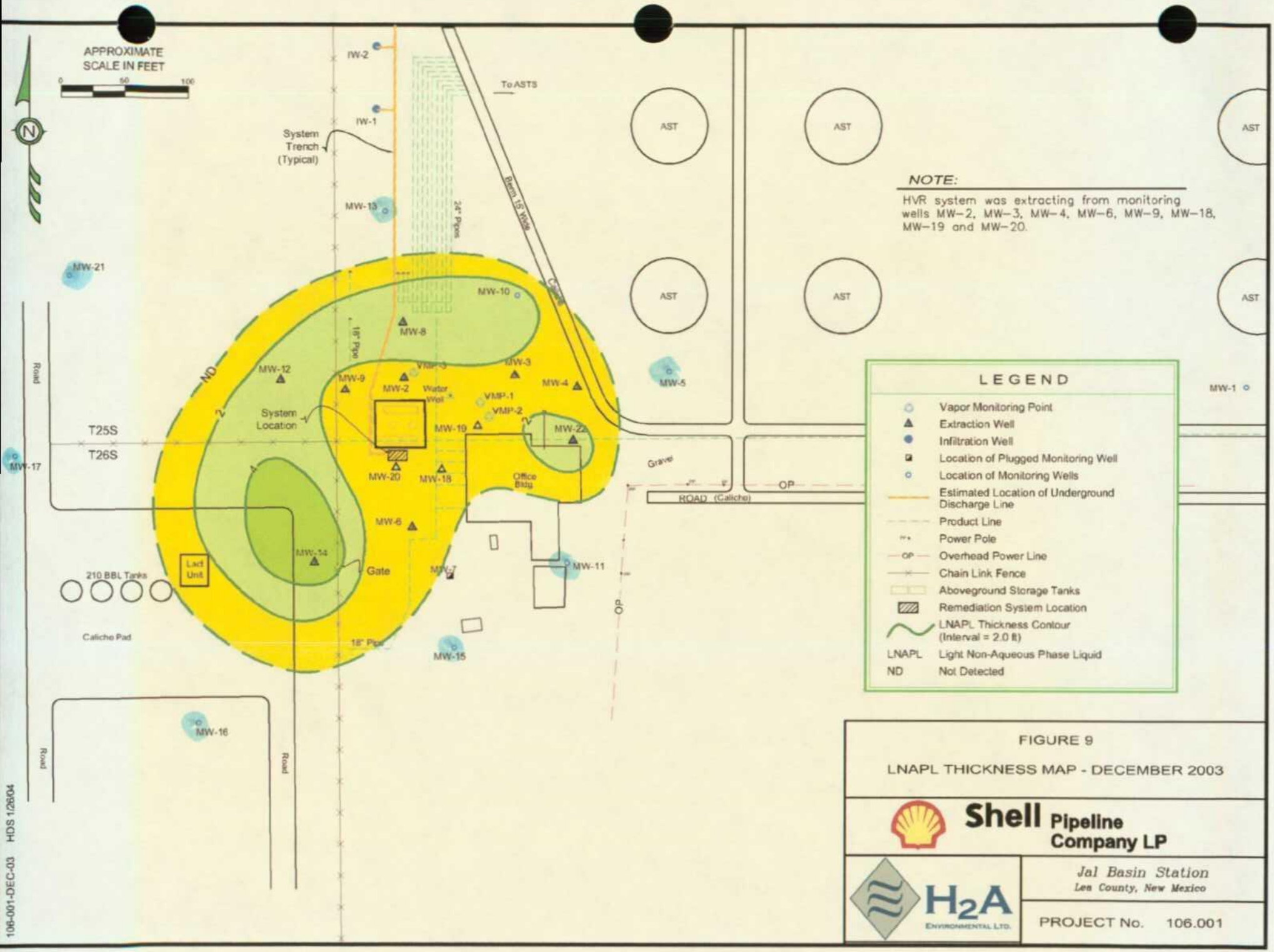


FIGURE 9

LNAPL THICKNESS MAP - DECEMBER 2003

Shell Pipeline Company LP

H2A ENVIRONMENTAL LTD.

Jal Basin Station
Lea County, New Mexico

PROJECT No. 106.001

106-001-DEC-03 HDS 1/26/04

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-01	02/04/99	2992.30	90.27	2902.03	---	---	---
	02/22/99	2992.30	90.19	2902.11	---	---	---
	03/11/99	2992.30	90.31	2901.99	---	---	---
	04/07/99	2992.30	90.63	2901.67	---	---	---
	05/03/99	2992.30	90.22	2902.08	---	---	---
	06/08/99	2992.30	90.40	2901.90	---	---	---
	06/22/99	2992.30	90.43	2901.87	---	---	---
	07/06/99	2992.30	90.41	2901.89	---	---	---
	08/14/99	2992.30	90.48	2901.82	---	---	---
	09/16/99	2992.30	90.44	2901.86	---	---	---
	10/19/99	2992.30	90.43	2901.87	---	---	---
	02/07/00	2992.30	90.48	2901.82	---	---	---
	08/02/00	2992.30	90.58	2901.72	---	---	---
	11/24/00	2992.30	90.68	2901.62	---	---	---
	02/14/01	2992.30	90.88	2901.42	---	---	---
	03/16/01	2992.30	93.35	2898.95	---	---	---
	04/19/01	2992.30	93.30	2899.00	---	---	---
	05/23/01	2992.30	91.13	2901.17	---	---	---
	09/29/01	2992.30	90.83	2901.47	---	---	---
	12/20/01	2992.30	93.95	2898.35	---	---	---
	03/27/02	2992.30	91.88	2900.42	---	---	---
	06/26/02	2992.30	92.08	2900.22	---	---	---
	09/25/02	2992.30	92.28	2900.02	---	---	---
	12/28/02	2992.30	92.53	2899.77	---	---	---
	03/22/03	2992.30	92.83	2899.47	---	---	---
	06/18/03	2992.30	92.88	2899.42	---	---	---
	09/22/03	2992.30	93.13	2899.17	---	---	---
	12/22/03	**2992.30**	**93.33**	**2898.97**	**---**	**---**	**---**
MW-02	02/04/99	2987.02	92.17	2901.95	83.89	2903.13	8.28
	02/22/99	2987.02	92.15	2901.85	84.02	2903.00	8.13
	03/11/99	2987.02	92.14	2901.88	83.98	2903.04	8.16
	03/24/99	2987.02	92.13	2901.64	84.26	2902.76	7.87
	03/31/99	2987.02	91.86	2902.05	83.83	2903.19	8.03
	04/02/99	2987.02	92.11	2901.85	84.02	2903.00	8.09
	04/07/99	2987.02	92.18	2902.02	83.81	2903.21	8.37
	07/15/99	2987.02	91.99	2901.65	84.28	2902.74	7.71
	10/26/99	2987.02	91.99	2901.44	84.52	2902.50	7.47
	08/02/00	2987.02	92.48	2901.10	84.84	2902.18	7.64
	11/24/00	2987.02	92.44	2900.50	85.54	2901.48	6.90
	02/14/01	2987.02	93.44	2899.97	85.99	2901.03	7.45
	05/23/01	2987.02	92.49	2900.54	85.49	2901.53	7.00
	09/29/01	2987.02	87.09	2899.97	87.04	2899.98	0.05
	12/20/01	2987.02	89.30	2897.76	89.25	2897.77	0.05
	03/27/02	2987.02	87.29	2899.82	87.19	2899.83	0.10
	06/26/02	2987.02	89.29	2899.70	86.99	2900.03	2.30

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-02	12/28/02	2987.02	87.51	2899.53	87.49	2899.53	0.02
cont.	09/22/03	2987.02	87.89	2899.17	87.84	2899.18	0.05
	12/22/03	**2987.02**	**88.34**	**2898.72**	**88.29**	**2898.73**	**0.05**
MW-03	02/04/99	2987.91	92.55	2902.25	84.52	2903.39	8.03
	02/22/99	2987.91	92.53	2902.24	84.53	2903.38	8.00
	03/11/99	2987.91	92.49	2902.16	84.64	2903.27	7.85
	03/24/99	2987.91	92.45	2902.21	84.58	2903.33	7.87
	03/31/99	2987.91	92.42	2902.11	84.71	2903.20	7.71
	04/02/99	2987.91	92.45	2902.08	84.74	2903.17	7.71
	07/15/99	2987.91	95.20	2899.45	87.34	2900.57	7.86
	08/07/99	2987.91	92.44	2901.95	84.89	2903.02	7.55
	08/14/99	2987.91	92.50	2901.83	85.02	2902.89	7.48
	08/22/99	2987.91	95.25	2898.37	88.60	2899.31	6.65
	09/01/99	2987.91	92.50	2901.80	85.05	2902.86	7.45
	09/11/99	2987.91	95.31	2898.99	87.86	2900.05	7.45
	09/16/99	2987.91	92.35	2901.93	84.92	2902.99	7.43
	09/25/99	2987.91	92.45	2901.68	85.20	2902.71	7.25
	10/02/99	2987.91	92.35	2901.05	85.95	2901.96	6.40
	10/09/99	2987.91	94.93	2899.24	87.63	2900.28	7.30
	10/15/99	2987.91	95.10	2899.12	87.75	2900.16	7.35
	10/21/99	2987.91	92.35	2901.82	85.05	2902.86	7.30
	10/26/99	2987.91	92.35	2901.78	85.10	2902.81	7.25
	08/02/00	2987.91	92.50	2901.99	84.83	2903.08	7.67
	11/24/00	2987.91	92.31	2900.07	87.10	2900.81	5.21
	02/14/01	2987.91	88.82	2899.11	88.80	2899.11	0.02
	03/16/01	2987.91	96.90	2895.99	91.10	2896.81	5.80
	04/19/01	2987.91	96.40	2896.14	91.00	2896.91	5.40
	05/23/01	2987.91	93.70	2899.01	88.10	2899.81	5.60
	09/29/01	2987.91	94.20	2898.64	88.45	2899.46	5.75
	12/20/01	2987.91	97.20	2895.73	91.35	2896.56	5.85
	03/27/02	2987.91	93.75	2898.15	89.10	2898.81	4.65
	06/26/02	2987.91	88.55	2899.40	88.50	2899.41	0.05
	12/28/02	2987.91	89.32	2898.61	89.30	2898.61	0.02
	09/22/03	2987.91	90.30	2897.65	90.25	2897.66	0.05
	12/22/03	**2987.91**	**89.20**	**2898.75**	**89.15**	**2898.76**	**0.05**
MW-04	02/04/99	2988.22	85.83	2902.39	---	---	---
	02/22/99	2988.22	85.90	2902.32	---	---	---
	03/11/99	2988.22	85.94	2902.28	---	---	---
	04/07/99	2988.22	86.11	2902.11	---	---	---
	05/03/99	2988.22	86.00	2902.27	85.94	2902.28	0.06
	05/10/99	2988.22	86.18	2902.14	86.06	2902.16	0.12
	05/18/99	2988.22	86.31	2902.04	86.16	2902.06	0.15

TABLE I

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SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-04	05/24/99	2988.22	86.30	2902.06	86.14	2902.08	0.16
cont.	06/01/99	2988.22	86.14	2902.19	86.01	2902.21	0.13
	06/08/99	2988.22	86.28	2902.10	86.09	2902.13	0.19
	06/14/99	2988.22	86.20	2902.20	85.99	2902.23	0.21
	06/22/99	2988.22	86.08	2902.32	85.87	2902.35	0.21
	07/02/99	2988.22	86.14	2902.31	85.87	2902.35	0.27
	07/06/99	2988.22	86.50	2902.01	86.16	2902.06	0.34
	07/13/99	2988.22	86.56	2901.97	86.20	2902.02	0.36
	07/20/99	2988.22	86.54	2902.01	86.16	2902.06	0.38
	07/26/99	2988.22	86.56	2902.00	86.16	2902.06	0.40
	08/07/99	2988.22	86.77	2901.85	86.30	2901.92	0.47
	08/14/99	2988.22	86.89	2901.83	86.31	2901.91	0.58
	08/22/99	2988.22	86.91	2901.87	86.26	2901.96	0.65
	09/01/99	2988.22	86.86	2901.92	86.21	2902.01	0.65
	09/11/99	2988.22	87.08	2901.82	86.29	2901.93	0.79
	09/16/99	2988.22	87.06	2901.85	86.26	2901.96	0.80
	09/25/99	2988.22	87.11	2901.89	86.20	2902.02	0.91
	10/02/99	2988.22	87.16	2901.88	86.20	2902.02	0.96
	10/09/99	2988.22	87.18	2901.94	86.13	2902.09	1.05
	10/15/99	2988.22	87.16	2901.96	86.11	2902.11	1.05
	10/21/99	2988.22	87.41	2901.84	86.21	2902.01	1.20
	10/26/99	2988.22	87.43	2901.85	86.19	2902.03	1.24
	08/02/00	2988.22	89.21	2901.49	86.32	2901.90	2.89
	11/24/00	2988.22	90.46	2899.65	88.26	2899.96	2.20
	02/14/01	2988.22	89.46	2899.40	88.71	2899.51	0.75
	03/16/01	2988.22	92.70	2896.42	91.65	2896.57	1.05
	04/19/01	2988.22	93.30	2896.46	91.50	2896.72	1.80
	05/23/01	2988.22	90.26	2899.33	88.66	2899.56	1.60
	09/29/01	2988.22	92.66	2899.03	88.61	2899.61	4.05
	12/20/01	2988.22	94.80	2896.85	90.80	2897.42	4.00
	03/27/02	2988.22	92.06	2899.42	88.26	2899.96	3.80
	06/26/02	2988.22	88.31	2899.95	88.26	2899.96	0.05
	12/28/02	2988.22	90.38	2897.86	90.36	2897.86	0.02
	09/22/03	2988.22	90.46	2897.78	90.44	2897.78	0.02
	12/22/03	**2988.22**	**89.51**	**2898.75**	**89.46**	**2898.76**	**0.05**
MW-05	02/04/99	2988.47	86.03	2902.44	---	---	---
	02/22/99	2988.47	86.07	2902.40	---	---	---
	03/11/99	2988.47	86.21	2902.26	---	---	---
	04/07/99	2988.47	86.25	2902.22	---	---	---
	05/03/99	2988.47	86.14	2902.33	---	---	---
	06/08/99	2988.47	86.49	2901.98	---	---	---
	06/22/99	2988.47	86.35	2902.12	---	---	---
	07/06/99	2988.47	86.43	2902.04	---	---	---

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-05 cont.	08/14/99	2988.47	86.54	2901.93	---	---	---
	09/16/99	2988.47	86.54	2901.93	---	---	---
	10/19/99	2988.47	86.46	2902.01	---	---	---
	02/07/00	2988.47	86.69	2901.78	---	---	---
	08/02/00	2988.47	86.90	2901.57	---	---	---
	11/24/00	2988.47	87.04	2901.43	---	---	---
	02/21/01	2988.47	87.49	2900.98	---	---	---
	03/16/01	2988.47	90.35	2898.12	---	---	---
	04/19/01	2988.47	90.30	2898.17	---	---	---
	05/23/01	2988.47	87.49	2900.98	---	---	---
	09/29/01	2988.47	87.79	2900.68	---	---	---
	12/20/01	2988.47	90.90	2897.57	---	---	---
	03/27/02	2988.47	88.24	2900.23	---	---	---
	06/26/02	2988.47	88.44	2900.03	---	---	---
	09/25/02	2988.47	88.89	2899.58	---	---	---
	12/28/02	2988.47	89.04	2899.43	---	---	---
	03/22/03	2988.47	89.34	2899.13	---	---	---
	06/18/03	2988.47	89.29	2899.18	---	---	---
	09/22/03	2988.47	89.59	2898.88	---	---	---
	12/22/03	**2988.47**	**89.79**	**2898.68**	**---**	**---**	**---**
MW-06	02/04/99	2987.40	87.01	2902.35	84.72	2902.68	2.29
	02/22/99	2987.40	88.75	2902.20	84.61	2902.79	4.14
	03/03/99	2987.40	89.16	2902.13	84.63	2902.77	4.53
	07/15/99	2987.40	88.48	2901.77	85.16	2902.24	3.32
	08/07/99	2987.40	90.69	2900.94	85.76	2901.64	4.93
	08/14/99	2987.40	90.98	2901.57	84.98	2902.42	6.00
	08/22/99	2987.40	90.98	2901.64	84.90	2902.50	6.08
	09/01/99	2987.40	90.93	2901.67	84.87	2902.53	6.06
	09/11/99	2987.40	91.11	2901.58	84.95	2902.45	6.16
	09/16/99	2987.40	91.00	2901.65	84.88	2902.52	6.12
	09/25/99	2987.40	90.85	2901.72	84.83	2902.57	6.02
	10/02/99	2987.40	90.88	2901.70	84.84	2902.56	6.04
	10/09/99	2987.40	90.86	2901.72	84.82	2902.58	6.04
	10/15/99	2987.40	90.88	2901.74	84.80	2902.60	6.08
	10/21/99	2987.40	91.05	2901.64	84.88	2902.52	6.17
	10/26/99	2987.40	91.03	2901.65	84.88	2902.52	6.15
	08/02/00	2987.40	92.03	2901.20	85.23	2902.17	6.80
	11/24/00	2987.40	92.33	2900.65	85.83	2901.57	6.50
	02/14/01	2987.40	89.83	2897.66	89.73	2897.67	0.10
	03/16/01	2987.40	92.60	2894.89	92.50	2894.90	0.10
	04/19/01	2987.40	92.55	2894.94	92.45	2894.95	0.10
	05/23/01	2987.40	89.83	2897.61	89.78	2897.62	0.05
	09/29/01	2987.40	89.73	2897.67	---	---	Sheen

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER ((feet)	DEPTH TO PSH (feet)	ELEV. OF PSH ((feet)	PSH THICKNESS (feet)
MW-06	12/20/01	2987.40	92.15	2895.29	92.10	2895.30	0.05
cont.	03/27/02	2987.40	89.53	2897.89	89.51	2897.89	0.02
	06/26/02	2987.40	89.78	2897.66	89.73	2897.67	0.05
	12/28/02	2987.40	89.65	2897.77	89.63	2897.77	0.02
	09/22/03	2987.40	91.43	2898.63	88.33	2899.07	3.10
	12/22/03	**2987.40**	**89.28**	**2898.16**	**89.23**	**2898.17**	**0.05**
MW-07	02/04/99	2986.31	84.03	2902.28	---	---	---
	02/22/99	2986.31	84.13	2902.18	---	---	---
	03/11/99	2986.31	84.26	2902.05	---	---	---
	04/07/99	2986.31	84.35	2901.96	---	---	---
	05/03/99	2986.31	84.36	2902.10	84.18	2902.13	0.18
	05/10/99	2986.31	84.58	2902.02	84.24	2902.07	0.34
	05/18/99	2986.31	84.88	2901.92	84.31	2902.00	0.57
	05/24/99	2986.31	84.89	2901.93	84.29	2902.02	0.60
	06/01/99	2986.31	84.77	2901.99	84.25	2902.06	0.52
	06/08/99	2986.31	84.99	2901.92	84.29	2902.02	0.70
	06/14/99	2986.31	84.31	2902.76	83.43	2902.88	0.88
	06/22/99	2986.31	84.27	2902.83	83.35	2902.96	0.92
	07/02/99	2986.31	85.32	2901.92	84.24	2902.07	1.08
	07/06/99	2986.31	85.49	2901.81	84.34	2901.97	1.15
	07/13/99	2986.31	85.72	2901.77	84.34	2901.97	1.38
	07/20/99	2986.31	85.87	2901.80	84.28	2902.03	1.59
	07/26/99	2986.31	86.14	2901.76	84.29	2902.02	1.85
	08/07/99	2986.31	86.54	2901.64	84.36	2901.95	2.18
	08/14/99	2986.31	86.94	2901.63	84.31	2902.00	2.63
	08/22/99	2986.31	87.49	2901.65	84.19	2902.12	3.30
	09/01/99	2986.31	87.74	2901.68	84.11	2902.20	3.63
	09/11/99	2986.31	88.14	2901.69	84.04	2902.27	4.10
	09/16/99	2986.31	88.24	2901.72	83.99	2902.32	4.25
	09/25/99	2986.31	88.34	2900.14	85.81	2900.50	2.53
	10/02/99	2986.31	88.49	2901.81	83.84	2902.47	4.65
	10/09/99	2986.31	88.64	2901.79	83.84	2902.47	4.80
	10/15/99	2986.31	88.69	2901.82	83.79	2902.52	4.90
	10/19/99	PLUGGED AND ABANDONED					
MW-08	02/04/99	2987.97	86.00	2901.98	85.99	2901.98	0.01
	02/22/99	2987.97	86.06	2901.93	86.04	2901.93	0.02
	03/11/99	2987.97	86.18	2901.86	86.10	2901.87	0.08
	03/24/99	2987.97	86.42	2901.88	86.04	2901.93	0.38
	03/31/99	2987.97	86.47	2901.88	86.03	2901.94	0.44
	04/02/99	2987.97	86.39	2901.79	86.14	2901.83	0.25
	04/07/99	2987.97	86.94	2901.77	86.08	2901.89	0.86
	04/13/99	2987.97	86.83	2901.90	85.94	2902.03	0.89

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. ((feet))	DEPTH TO WATER ((feet))	ELEV. OF WATER ((feet))	DEPTH TO PSH ((feet))	ELEV. OF PSH ((feet))	PSH THICKNESS ((feet))
MW-08	04/19/99	2987.97	87.01	2901.87	85.95	2902.02	1.06
cont.	04/26/99	2987.97	87.30	2901.81	85.97	2902.00	1.33
	05/03/99	2987.97	87.47	2901.85	85.90	2902.07	1.57
	05/10/99	2987.97	87.89	2901.75	85.94	2902.03	1.95
	05/18/99	2987.97	88.39	2901.66	85.96	2902.01	2.43
	05/24/99	2987.97	88.60	2901.68	85.91	2902.06	2.69
	06/01/99	2987.97	89.04	2901.74	85.76	2902.21	3.28
	06/08/99	2987.97	88.51	2901.79	85.80	2902.17	2.71
	06/14/99	2987.97	86.14	2904.58	82.94	2905.03	3.20
	06/22/99	2987.97	85.74	2905.36	82.09	2905.88	3.65
	07/02/99	2987.97	89.62	2901.64	85.78	2902.19	3.84
	07/06/99	2987.97	89.76	2901.64	85.76	2902.21	4.00
	07/13/99	2987.97	89.92	2901.55	85.84	2902.13	4.08
	07/20/99	2987.97	89.94	2901.63	85.74	2902.23	4.20
	07/26/99	2987.97	90.09	2901.63	85.72	2902.25	4.37
	08/07/99	2987.97	90.20	2901.57	85.77	2902.20	4.43
	08/14/99	2987.97	90.44	2901.65	85.64	2902.33	4.80
	08/22/99	2987.97	90.49	2901.51	85.79	2902.18	4.70
	09/01/99	2987.97	90.40	2901.52	85.80	2902.17	4.60
	09/11/99	2987.97	90.74	2901.48	85.79	2902.18	4.95
	09/16/99	2987.97	90.74	2901.44	85.83	2902.14	4.91
	09/25/99	2987.97	90.74	2901.52	85.74	2902.23	5.00
	10/02/99	2987.97	90.79	2901.48	85.78	2902.19	5.01
	10/09/99	2987.97	90.74	2901.51	85.75	2902.22	4.99
	10/15/99	2987.97	90.89	2901.50	85.74	2902.23	5.15
	10/21/99	2987.97	91.04	2900.59	86.77	2901.20	4.27
	10/26/99	2987.97	91.09	2901.44	85.77	2902.20	5.32
	08/02/00	2987.97	90.92	2901.06	86.25	2901.72	4.67
	11/24/00	2987.97	91.44	2900.56	86.74	2901.23	4.70
	02/14/01	2987.97	91.44	2899.92	87.49	2900.48	3.95
	03/16/01	2987.97	91.55	2897.79	89.95	2898.02	1.60
	04/19/01	2987.97	93.60	2897.84	89.55	2898.42	4.05
	05/23/01	2987.97	92.09	2900.56	86.64	2901.33	5.45
	09/29/01	2987.97	93.09	2900.03	87.09	2900.88	6.00
	12/20/01	2987.97	95.75	2897.20	89.95	2898.02	5.80
	03/27/02	2987.97	92.84	2899.85	87.34	2900.63	5.50
	06/26/02	2987.97	92.79	2899.77	87.44	2900.53	5.35
	09/25/02	2987.97	93.84	2899.15	87.99	2899.98	5.85
	12/28/02	2987.97	92.79	2898.91	88.44	2899.53	4.35
	03/22/03	2987.97	92.59	2898.60	88.84	2899.13	3.75
	06/18/03	2987.97	90.99	2898.61	89.09	2898.88	1.90
	09/22/03	2987.97	91.44	2898.59	89.04	2898.93	2.40
	12/22/03	**2987.97**	**92.79**	**2898.31**	**89.14**	**2898.83**	**3.65**

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-09	02/04/99	2987.39	86.06	2901.83	85.48	2901.91	0.58
	02/22/99	2987.39	88.60	2902.34	84.46	2902.93	4.14
	03/11/99	2987.39	91.48	2901.67	84.77	2902.62	6.71
	03/24/99	2987.39	91.43	2901.67	84.78	2902.61	6.65
	03/31/99	2987.39	91.40	2901.72	84.72	2902.67	6.68
	04/02/99	2987.39	91.52	2901.60	84.84	2902.55	6.68
	04/07/99	2987.39	91.58	2901.57	84.87	2902.52	6.71
	07/15/99	2987.39	91.13	2901.43	85.11	2902.28	6.02
	10/26/99	2987.39	90.63	2901.22	85.43	2901.96	5.20
	08/02/00	2987.39	92.73	2900.81	85.56	2901.83	7.17
	11/24/00	2987.39	92.63	2900.38	86.08	2901.31	6.55
	02/14/01	2987.39	93.58	2899.99	86.38	2901.01	7.20
	05/23/01	2987.39	93.08	2900.36	86.03	2901.36	7.05
	09/29/01	2987.39	93.73	2899.75	86.63	2900.76	7.10
	12/20/01	2987.39	91.05	2896.51	90.85	2896.54	0.20
	03/27/02	2987.39	87.98	2899.45	87.93	2899.46	0.05
	06/26/02	2987.39	88.73	2899.56	87.68	2899.71	1.05
	12/28/02	2987.39	87.93	2899.49	87.90	2899.49	0.03
	09/22/03	2987.39	88.88	2898.55	88.83	2898.56	0.05
	12/22/03	**2987.39**	**89.23**	**2898.29**	**89.08**	**2898.31**	**0.15**
MW-10	02/04/99	2987.96	85.73	2902.23	---	---	---
	02/22/99	2987.96	85.76	2902.20	---	---	---
	03/11/99	2987.96	85.87	2902.09	---	---	---
	04/07/99	2987.96	85.93	2902.03	---	---	---
	05/03/99	2987.96	85.81	2902.15	---	---	---
	06/08/99	2987.96	86.02	2901.94	---	---	---
	06/22/99	2987.96	87.07	2900.89	---	---	---
	07/06/99	2987.96	87.07	2900.89	---	---	---
	08/14/99	2987.96	86.19	2901.77	---	---	---
	09/16/99	2987.96	86.22	2901.74	---	---	---
	10/19/99	2987.96	86.17	2901.79	---	---	---
	02/07/00	2987.96	86.32	2901.64	---	---	---
	08/02/00	2987.96	86.57	2901.39	---	---	---
	11/24/00	2987.96	86.72	2901.24	---	---	---
	02/14/01	2987.96	87.02	2900.94	---	---	---
	03/16/01	2987.96	89.95	2898.01	---	---	---
	04/19/01	2987.96	89.55	2898.41	---	---	---
	05/23/01	2987.96	87.57	2900.82	87.07	2900.89	0.50
	09/29/01	2987.96	91.37	2900.45	86.87	2901.09	4.50
	12/20/01	2987.96	94.25	2897.49	89.85	2898.11	4.40
	03/27/02	2987.96	91.57	2900.04	87.32	2900.64	4.25
	06/26/02	2987.96	91.62	2899.90	87.47	2900.49	4.15
	12/28/02	2987.96	90.62	2899.36	88.27	2899.69	2.35

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. ((feet))	DEPTH TO WATER ((feet))	ELEV. OF WATER ((feet))	DEPTH TO PSH ((feet))	ELEV. OF PSH ((feet))	PSH THICKNESS ((feet))
MW-10	03/22/03	2987.96	91.12	2899.11	88.47	2899.49	2.65
cont.	06/18/03	2987.96	91.12	2899.07	88.52	2899.44	2.60
	09/22/03	2987.96	91.27	2898.75	88.87	2899.09	2.40
	12/22/03	**2987.96**	**91.22**	**2898.71**	**88.92**	**2899.04**	**2.30**
MW-11	02/04/99	2989.37	87.54	2901.83	---	---	---
	02/22/99	2989.37	87.50	2901.87	---	---	---
	03/11/99	2989.37	87.60	2901.77	---	---	---
	04/07/99	2989.37	87.56	2901.81	---	---	---
	05/03/99	2989.37	87.38	2901.99	---	---	---
	06/08/99	2989.37	87.72	2901.65	---	---	---
	06/22/99	2989.37	87.76	2901.61	---	---	---
	07/06/99	2989.37	87.84	2901.53	---	---	---
	08/14/99	2989.37	87.98	2901.39	---	---	---
	09/16/99	2989.37	87.61	2901.76	---	---	---
	10/19/99	2989.37	87.66	2901.71	---	---	---
	02/07/00	2989.37	87.52	2901.85	---	---	---
	08/02/00	2989.37	87.65	2901.72	---	---	---
	11/24/00	2989.37	87.87	2901.50	---	---	---
	02/14/01	2989.37	88.32	2901.05	---	---	---
	03/16/01	2989.37	91.4	2897.97	---	---	---
	04/19/01	2989.37	91.35	2898.02	---	---	---
	05/23/01	2989.37	88.52	2900.85	---	---	---
	09/29/01	2989.37	88.57	2900.80	---	---	---
	12/20/01	2989.37	91.80	2897.57	---	---	---
	03/27/02	2989.37	89.17	2900.20	---	---	---
	06/26/02	2989.37	89.37	2900.00	---	---	---
	09/25/02	2989.37	89.82	2899.55	---	---	---
	12/28/02	2989.37	90.07	2899.30	---	---	---
	03/22/03	2989.37	90.47	2898.90	---	---	---
	06/18/03	2989.37	90.47	2898.90	---	---	---
	09/22/03	2989.37	89.57	2899.80	---	---	---
	12/22/03	**2989.37**	**90.82**	**2898.55**	**---**	**---**	**---**
MW-12	02/04/99	2987.79	86.52	2901.27	---	---	---
	02/22/99	2987.79	86.26	2901.53	---	---	---
	03/11/99	2987.79	86.38	2901.41	---	---	---
	04/07/99	2987.79	86.46	2901.33	---	---	---
	05/03/99	2987.79	86.36	2901.43	---	---	---
	06/08/99	2987.79	86.55	2901.24	---	---	---
	06/22/99	2987.79	86.55	2901.24	---	---	---
	07/06/99	2987.79	86.60	2901.19	---	---	---

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-12 cont.	08/14/99	2987.79	86.70	2901.09	---	---	---
	09/16/99	2987.79	86.71	2901.08	---	---	---
	10/19/99	2987.79	86.72	2901.07	---	---	---
	02/07/00	2987.79	86.80	2900.99	---	---	---
	08/02/00	2987.79	87.08	2900.71	---	---	---
	11/24/00	2987.79	88.45	2900.67	86.90	2900.89	1.55
	02/14/01	2987.79	90.80	2900.34	86.90	2900.89	3.90
	03/16/01	2987.79	94.35	2896.96	90.25	2897.54	4.10
	04/19/01	2987.79	94.45	2897.07	90.10	2897.69	4.35
	05/23/01	2987.79	91.65	2900.17	86.95	2900.84	4.70
	09/29/01	2987.79	93.00	2899.77	87.20	2900.59	5.80
	12/20/01	2987.79	96.30	2896.42	90.55	2897.24	5.75
	03/27/02	2987.79	92.95	2899.34	87.70	2900.09	5.25
	06/26/02	2987.79	92.40	2899.42	87.70	2900.09	4.70
	09/25/02	2987.79	92.90	2899.01	88.10	2899.69	4.80
	12/28/02	2987.79	92.65	2898.79	88.40	2899.39	4.25
	03/22/03	2987.79	92.90	2898.32	88.90	2898.89	4.00
	06/18/03	2987.79	92.90	2898.32	88.90	2898.89	4.00
	09/22/03	2987.79	91.50	2898.39	89.05	2898.74	2.45
	12/22/03	**2987.79**	**92.20**	**2898.21**	**89.15**	**2898.64**	**3.05**
MW-13	10/19/99	2989.79	88.28	2901.51	---	---	---
	02/07/00	2989.79	88.42	2901.37	---	---	---
	08/02/00	2989.79	88.62	2901.17	---	---	---
	11/24/00	2989.79	88.67	2901.12	---	---	---
	02/14/01	2989.79	88.92	2900.87	---	---	---
	03/16/01	2989.79	92.25	2897.54	---	---	---
	04/19/01	2989.79	92.20	2897.59	---	---	---
	05/23/01	2989.79	89.17	2900.62	---	---	---
	09/29/01	2989.79	89.52	2900.27	---	---	---
	12/20/01	2989.79	92.80	2896.99	---	---	---
	03/27/02	2989.79	89.82	2899.97	---	---	---
	06/26/02	2989.79	90.02	2899.77	---	---	---
	09/25/02	2989.79	90.02	2899.77	---	---	---
	12/28/02	2989.79	90.32	2899.47	---	---	---
	03/22/03	2989.79	90.57	2899.22	---	---	---
	06/18/03	2989.79	90.72	2899.07	---	---	---
	09/22/03	2989.79	90.92	2898.87	---	---	---
	12/22/03	**2989.79**	**91.12**	**2898.67**	**---**	**---**	**---**

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-14	10/19/99	2986.02	85.04	2900.98	---	---	---
	02/07/00	2986.02	85.25	2900.77	---	---	---
	08/02/00	2986.02	86.95	2900.53	85.25	2900.77	1.70
	11/24/00	2986.02	88.60	2900.51	85.00	2901.02	3.60
	02/14/01	2986.02	89.95	2900.10	85.25	2900.77	4.70
	03/29/01	2986.02	88.76	2897.27	88.75	2897.27	0.01
	05/23/01	2986.02	86.30	2900.02	85.95	2900.07	0.35
	09/29/01	2986.02	87.45	2899.77	86.05	2899.97	1.40
	12/20/01	2986.02	89.08	2896.97	89.05	2896.97	0.03
	03/27/02	2986.02	87.80	2899.46	86.35	2899.67	1.45
	12/28/02	2986.02	89.20	2898.79	86.90	2899.12	2.30
	03/22/03	2986.02	92.00	2898.31	87.00	2899.02	5.00
	06/18/03	2986.02	89.20	2898.45	87.30	2898.72	1.90
	09/22/03	2986.02	91.40	2898.27	87.15	2898.87	4.25
	12/22/03	**2986.02**	**91.90**	**2897.85**	**87.55**	**2898.47**	**4.35**
MW-15	10/19/99	2986.45	85.32	2901.13	---	---	---
	02/07/00	2986.45	85.01	2901.44	---	---	---
	08/02/00	2986.45	85.30	2901.15	---	---	---
	11/24/00	2986.45	85.36	2901.09	---	---	---
	02/14/01	2986.45	85.81	2900.64	---	---	---
	03/16/01	2986.45	89.15	2897.30	---	---	---
	04/19/01	2986.45	89.05	2897.40	---	---	---
	05/23/01	2986.45	85.91	2900.54	---	---	---
	09/29/01	2986.45	86.21	2900.24	---	---	---
	12/20/01	2986.45	89.50	2896.95	---	---	---
	03/27/02	2986.45	86.66	2899.79	---	---	---
	06/26/02	2986.45	86.81	2899.64	---	---	---
	09/25/02	2986.45	87.21	2899.24	---	---	---
	12/28/02	2986.45	87.51	2898.94	---	---	---
	03/22/03	2986.45	87.91	2898.54	---	---	---
	06/18/03	2986.45	87.81	2898.64	---	---	---
	09/22/03	2986.45	87.91	2898.54	---	---	---
	12/22/03	**2986.45**	**88.16**	**2898.29**	**---**	**---**	**---**
MW-16	03/27/02	2985.80	87.29	2898.51	---	---	---
	06/26/02	2985.80	87.34	2898.46	---	---	---
	09/25/02	2985.80	87.59	2898.21	---	---	---
	12/28/02	2985.80	87.79	2898.01	---	---	---
	03/22/03	2985.80	88.29	2897.51	---	---	---
	06/18/03	2985.80	88.24	2897.56	---	---	---
	09/22/03	2985.80	88.29	2897.51	---	---	---
	12/22/03	**2985.80**	**88.39**	**2897.41**	**---**	**---**	**---**

TABLE I

SUMMARY OF GROUNDWATER MONITORING
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

WELL	DATE	SURFACE ELEV. (feet)	DEPTH TO WATER (feet)	ELEV. OF WATER (feet)	DEPTH TO PSH (feet)	ELEV. OF PSH (feet)	PSH THICKNESS (feet)
MW-17	03/27/02	2985.09	86.82	2898.27	---	---	---
	06/26/02	2985.09	86.72	2898.37	---	---	---
	09/25/02	2985.09	87.12	2897.97	---	---	---
	12/28/02	2985.09	87.32	2897.77	---	---	---
	03/22/03	2985.09	88.72	2896.37	---	---	---
	06/18/03	2985.09	87.67	2897.42	---	---	---
	09/22/03	2985.09	87.67	2897.42	---	---	---
	12/22/03	**2985.09**	**87.82**	**2897.27**	**---**	**---**	**---**
MW-18	03/27/02	2987.16	93.38	2899.70	86.48	2900.68	6.90
	06/26/02	2987.16	93.98	2899.62	86.48	2900.68	7.50
	09/25/02	2987.16	94.23	2898.94	87.23	2899.93	7.00
	12/28/02	2987.16	88.80	2898.38	88.78	2898.38	0.02
	09/22/03	2987.16	92.58	2898.57	87.93	2899.23	4.65
	12/22/03	**2987.16**	**89.38**	**2897.82**	**89.33**	**2897.83**	**0.05**
MW-19	03/27/02	2988.86	94.24	2899.85	88.14	2900.72	6.10
	06/26/02	2988.86	94.19	2899.73	88.29	2900.57	5.90
	09/25/02	2988.86	95.39	2899.13	88.79	2900.07	6.60
	12/28/02	2988.86	91.46	2897.42	91.44	2897.42	0.02
	09/22/03	2988.86	91.24	2899.04	89.59	2899.27	1.65
	12/22/03	**2988.86**	**89.61**	**2899.27**	**89.59**	**2899.27**	**0.02**
MW-20	03/27/02	2987.22	94.08	2899.19	87.03	2900.19	7.05
	06/26/02	2987.22	93.73	2899.32	86.93	2900.29	6.80
	09/25/02	2987.22	94.73	2898.54	87.68	2899.54	7.05
	12/28/02	2987.22	90.10	2897.14	90.08	2897.14	0.02
	09/22/03	2987.22	93.03	2898.14	88.43	2898.79	4.60
	12/22/03	**2987.22**	**89.60**	**2897.64**	**89.58**	**2897.64**	**0.02**
MW-21	12/28/02	2986.63	88.54	2898.09	---	---	---
	03/22/03	2986.63	88.74	2897.89	---	---	---
	06/18/03	2986.63	88.64	2897.99	---	---	---
	09/22/03	2986.63	88.89	2897.74	---	---	---
	12/22/03	**2986.63**	**88.99**	**2897.64**	**---**	**---**	**---**
MW-22	12/28/02	2989.24	90.83	2899.27	89.83	2899.41	1.00
	03/22/03	2989.24	92.58	2898.93	89.93	2899.31	2.65
	06/18/03	2989.24	92.58	2898.98	89.88	2899.36	2.70
	09/22/03	2989.24	93.13	2898.86	89.93	2899.31	3.20
	12/22/03	**2989.24**	**93.23**	**2898.67**	**90.13**	**2899.11**	**3.10**

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-1	02/23/99	ND	ND	ND	ND	ND	---
	08/22/99	ND	ND	ND	ND	ND	ND
	10/19/99	ND	ND	ND	ND	ND	0.135
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/14/01	<0.001	<0.001	<0.001	<0.003	0	---
	05/23/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/29/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/20/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	03/27/02	<0.005	<0.005	<0.005	<0.005	<0.005	---
	06/26/02	0.0219	0.0018	0.0046	0.0042	0.0325	---
	09/25/02	<0.005	<0.005	<0.005	<0.005	<0.005	---
	12/28/02	<0.005	<0.005	<0.005	<0.015	<0.015	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**
MW-2	02/23/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (8.28')					
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.71')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.47')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.64')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.90')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.45')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.00')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.10')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.30')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')**					
MW-3	02/23/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (8.00')					
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.45')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.30')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.67')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.21')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.60')					

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-3 cont.	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.75')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.85')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.65')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')**					
MW-4	02/23/99	ND	ND	ND	0.005	0.005	---
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.65')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.05')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.89')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.20')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.75')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.60')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.05')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.00')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.80')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')**					
MW-5	02/23/99	ND	ND	ND	ND	ND	---
	08/22/99	ND	ND	ND	ND	ND	ND
	10/19/99	ND	ND	ND	ND	ND	0.156
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/21/01	<0.001	<0.001	<0.001	<0.003	0	---
	05/23/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/29/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/20/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	03/28/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-6	02/23/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.14')					
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.08')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.08')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.80')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.50')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.10')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (SHEEN)					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.10')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')**					
MW-7	02/23/99	ND	ND	ND	0.004	0.004	---
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.30')					
	10/19/99	PLUGGED AND ABANDONED					
MW-8	02/23/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.70')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.15')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.67')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.70')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.95')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.45')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.00')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.80')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.50')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.35')					
	09/25/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.85')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.35')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.75')					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.90')					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.40')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.65')**					

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-9	02/23/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.14')					
	08/22/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.02')					
	10/19/99	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.20')					
	02/07/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.17')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.55')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.20')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.05')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.10')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.20')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.05')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.03')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.15')**					
MW-10	02/23/99	ND	ND	ND	ND	ND	---
	08/22/99	ND	ND	ND	ND	ND	ND
	10/19/99	ND	ND	ND	ND	ND	0.124
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/14/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.50')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.50')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.40')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.25')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.15')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.35')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.65')					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.60')					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.40')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.30')**					
MW-11	02/23/99	ND	ND	ND	ND	ND	---
	08/22/99	ND	ND	ND	ND	ND	3.2
	10/19/99	ND	ND	ND	ND	ND	0.077
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/14/01	<0.001	<0.001	<0.001	<0.003	0	---
	05/23/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/29/01	<0.001	<0.001	<0.001	<0.001	<0.001	---

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-11 cont.	12/20/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	03/28/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**
MW-12	02/23/99	ND	ND	ND	ND	ND	---
	08/22/99	ND	ND	ND	ND	ND	2.5
	10/19/99	ND	ND	ND	ND	ND	0.306
	02/07/00	0.004	ND	ND	0.007	0.011	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.55')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.90')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.70')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.80')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.75')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.25')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.70')					
	09/25/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.80')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.25')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.00')					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.00')					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.45')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.05')**					
MW-13	10/19/99	ND	ND	ND	ND	ND	0.127
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/14/01	<0.001	<0.001	<0.001	<0.003	0	---
	05/23/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/29/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/20/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	03/28/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-14	10/19/99	0.007	ND	ND	0.010	0.017	0.481
	02/07/00	0.024	ND	ND	0.023	0.047	1.384
	08/02/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.70')					
	11/24/00	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.60')					
	02/14/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.70')					
	05/23/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.35')					
	09/29/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.40')					
	12/20/01	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.03')					
	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.45')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.30')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.00')					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.90')					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.25')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.35')**					
MW-15	10/19/99	ND	ND	ND	ND	ND	0.132
	02/07/00	ND	ND	ND	ND	ND	ND
	08/02/00	ND	ND	ND	ND	ND	---
	11/24/00	ND	ND	ND	ND	ND	---
	02/14/01	<0.001	<0.001	<0.001	<0.003	<0.003	---
	05/23/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/29/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/20/01	<0.001	<0.001	<0.001	<0.001	<0.001	---
	03/28/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**
MW-16	03/27/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	0.0119	<0.001	<0.001	<0.001	0.0119	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**
MW-17	03/27/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	06/26/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	09/25/02	<0.001	<0.001	<0.001	<0.001	<0.001	---
	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**

TABLE II

SUMMARY OF GROUNDWATER RESULTS - BTEX AND TPH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH-DRO (mg/l)
MW-18	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.90')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.50')					
	09/25/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.00')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.65')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.05')**					
MW-19	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.10')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (5.90')					
	09/25/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.60')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.65')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')**					
MW-20	03/27/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.05')					
	06/26/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (6.80')					
	09/25/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (7.05')					
	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (4.60')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (0.02')**					
MW-21	12/28/02	<0.001	<0.001	<0.001	<0.003	<0.003	---
	03/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	06/18/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	09/22/03	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	---
	12/23/03	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**<0.00100**	**---**
MW-22	12/28/02	NOT SAMPLED DUE TO THE PRESENCE OF PSH (1.00')					
	03/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.65')					
	06/18/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (2.70')					
	09/22/03	NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.20')					
	12/23/03	**NOT SAMPLED DUE TO THE PRESENCE OF PSH (3.10')**					

TABLE III

SUMMARY OF GROUND WATER RESULTS - OTHER
SHELL PIPELINE COMPANY LP
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-1					MW-4	MW-5					MW-7
DATE SAMPLED	02/23/99	10/19/99	12/20/01	12/28/02	12/23/03	02/23/99	02/23/99	10/19/99	12/20/01	12/28/02	12/23/03	02/23/99
PARAMETER	CONCENTRATION (mg/l)											
PAH												
Acenaphthalene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	<0.005	<0.000200	<0.000200	0.003
Fluorene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	<0.005	<0.000200	<0.000200	0.005
Naphthalene	ND	ND	<0.005	<0.000200	<0.000200	0.005	ND	ND	<0.005	<0.000200	<0.000200	ND
Phenanthrene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	<0.005	<0.000200	<0.000200	0.003
Pyrene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	<0.005	<0.000200	<0.000200	ND
TOTAL	ND	ND	<0.005	<0.000200	<0.000200	0.005	ND	ND	<0.005	<0.000200	<0.000200	0.011
Metals												
Aluminum	ND	1.29	---	0.995	---	ND	ND	2.81	---	0.995	---	4.93
Arsenic	---	---	0.0222	<0.0500	<0.0100	---	---	---	0.0134	<0.0500	<0.0100	---
Barium	ND	ND	0.559	0.112	<0.100	ND	0.65	0.492	0.164	0.102	0.442	ND
Boron	ND	0.918	---	4.30	---	1.76	ND	0.355	---	0.343	---	ND
Cadmium	---	---	<0.005	<0.00500	<0.00500	---	---	---	<0.005	<0.00500	<0.00500	---
Calcium	587	413	---	---	---	447	1650	335	---	---	---	737
Chromium	0.13	ND	0.0995	<0.0100	<0.0100	ND	ND	ND	<0.010	<0.0100	0.0140	ND
Cobalt	---	---	---	<0.0250	---	---	---	---	---	<0.0250	---	---
Copper	ND	ND	---	<0.0250	---	ND	ND	ND	---	<0.0177	---	0.034
Iron	6.72	2.94	---	0.661	---	1.44	1.26	2.72	---	0.386	---	3.11
Lead	0.021	ND	0.0198	<0.0100	<0.0100	0.019	ND	ND	<0.010	<0.0100	<0.0100	0.030
Magnesium	202	163	---	---	---	49.3	49.6	41.4	---	---	---	78.5
Manganese	0.31	ND	---	0.298	---	ND	0.85	0.184	---	0.0363	---	0.42
Mercury	---	---	<0.0002	0.000210	<0.000200	---	---	---	<0.0002	<0.000200	<0.000200	---
Molybdenum	---	---	---	<0.0500	---	---	---	---	---	<0.0500	---	---
Nickel	---	---	---	<0.0250	---	---	---	---	---	<0.0250	---	---
Potassium	14.56	13.0	---	---	---	9.17	6.39	7.17	---	---	---	12.11
Selenium	0.13	0.081	0.093	0.123	<0.0500	ND	ND	ND	<0.050	<0.0500	<0.0500	ND
Silver	---	---	<0.0125	<0.0125	<0.0125	---	---	---	<0.0125	<0.0125	<0.0125	---
Sodium	167	176	---	---	---	92.44	66.89	66.7	---	---	---	---
Zinc	---	---	---	0.0273	---	---	---	---	---	0.0451	---	---
Cations/Anions												
Bicarbonate	362	385	---	---	---	377	280	336	---	---	---	402
Chloride	767	159	---	---	---	34	15	9.60	---	---	---	58.6
Fluoride	---	---	---	---	---	---	---	---	---	---	---	---
Nitrate-N	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate	1960	453	---	---	---	55	40	33	---	---	---	980
TDS	2670	2290	---	---	---	730	640	512	---	---	---	1330

TABLE III

SUMMARY OF GROUND WATER RESULTS - OTHER
SHELL PIPELINE COMPANY LP
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-10		MW-11						MW-12	
DATE SAMPLED	02/23/99	10/19/99	02/23/99	10/19/99	02/07/00	12/20/01	12/28/02	12/23/03	02/23/99	10/19/99
PARAMETER	CONCENTRATION (mg/l)									
PAH										
Acenaphthalene	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
Fluorene	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
Naphthalene	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
Pyrene	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
TOTAL	ND	ND	ND	ND	ND	<0.005	<0.000200	<0.000200	ND	ND
Metals										
Aluminum	ND	2.72	ND	0.528	---	---	3.25	---	5.78	0.696
Arsenic	---	---	---	---	---	0.0195	<0.0500	<0.0100	---	---
Barium	ND	0.308	ND	ND	---	<0.100	<0.100	0.102	0.59	ND
Boron	ND	0.308	ND	0.572	---	---	1.72	---	ND	0.636
Cadmium	---	---	---	---	---	<0.005	<0.00500	<0.00500	---	---
Calcium	949	311	387	110	---	---	---	---	524	128
Chromium	ND	ND	ND	ND	---	<0.010	<0.0100	0.0150	ND	ND
Cobalt	---	---	---	---	---	---	<0.0250	---	---	---
Copper	0.065	ND	ND	ND	---	---	<0.0250	---	0.04	ND
Iron	ND	3.28	2.56	0.556	---	---	2.05	---	3.33	0.072
Lead	ND	ND	0.019	ND	---	<0.010	<0.0100	<0.0100	0.031	ND
Magnesium	55.9	61.0	49.6	41.9	---	---	---	---	48.1	51.5
Manganese	0.32	0.121	0.23	ND	---	---	0.0325	---	0.26	ND
Mercury	---	---	---	---	---	<0.0002	<0.000200	<0.000200	---	---
Molybdenum	---	---	---	---	---	---	<0.0500	---	---	---
Nickel	---	---	---	---	---	---	<0.0250	---	---	---
Potassium	9.44	7.56	9.389	6.76	---	---	---	---	9.67	6.08
Selenium	ND	ND	ND	ND	---	<0.050	<0.0500	<0.0500	ND	ND
Silver	---	---	---	---	---	<0.0125	<0.0125	<0.0125	---	---
Sodium	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	0.0615	---	---	---
Cations/Anions										
Bicarbonate	256	376	272	276	---	---	---	---	382	498
Chloride	54	28.9	69	67.3	---	---	---	---	8	14.7
Fluoride	---	---	---	---	---	---	---	---	---	---
Nitrate-N	---	---	---	---	---	---	---	---	---	---
Sulfate	38	25.9	369	350	---	---	---	---	31	38
TDS	810	621	2060	1060	---	---	---	---	600	710

TABLE III

SUMMARY OF GROUND WATER RESULTS - OTHER
SHELL PIPELINE COMPANY LP
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-13					MW-14		MW-15				
DATE SAMPLED	10/19/99	02/07/00	12/20/01	12/28/02	12/23/03	10/19/99	02/07/00	10/19/99	02/07/00	12/20/01	12/28/02	12/23/03
PARAMETER	CONCENTRATION (mg/l)											
PAH												
Acenaphthalene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	ND	<0.005	<0.000200	<0.000200
Fluorene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	ND	<0.005	<0.000200	<0.000200
Naphthalene	ND	ND	<0.005	<0.000200	<0.000200	0.036	0.0152	ND	ND	<0.005	<0.000200	<0.000200
Phenanthrene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	ND	<0.005	<0.000200	<0.000200
Pyrene	ND	ND	<0.005	<0.000200	<0.000200	ND	ND	ND	ND	<0.005	<0.000200	<0.000200
TOTAL	ND	ND	<0.005	<0.000200	<0.000200	0.036	0.0152	ND	ND	<0.005	<0.000200	<0.000200
Metals												
Aluminum	4.56	---	---	0.331	---	0.936	---	1.39	---	---	0.629	---
Arsenic	---	---	0.0159	<0.0500	<0.0100	---	---	---	---	<0.010	<0.0500	<0.0100
Barium	0.451	---	0.206	0.138	0.360	0.32	---	ND	---	<0.100	<0.100	0.108
Boron	ND	---	---	0.194	---	1.7	---	0.84	---	---	3.31	---
Cadmium	---	---	<0.005	<0.00500	<0.00500	---	---	---	---	<0.005	<0.00500	<0.00500
Calcium	807	---	---	---	---	1680	---	268	---	---	---	---
Chromium	ND	---	<0.010	<0.0100	0.0180	ND	---	ND	---	<0.010	<0.0100	0.0140
Cobalt	---	---	---	<0.0250	---	---	---	---	---	---	<0.0250	---
Copper	ND	---	---	<0.0250	---	ND	---	ND	---	---	<0.0250	---
Iron	5.89	---	---	0.236	---	4.33	---	1.61	---	---	0.459	---
Lead	ND	---	<0.010	<0.0100	<0.0100	ND	---	ND	---	<0.010	<0.0100	<0.0100
Magnesium	41.6	---	---	---	---	87.2	---	96.9	---	---	---	---
Manganese	0.581	---	---	0.0272	---	0.388	---	ND	---	---	0.0329	---
Mercury	---	---	<0.0002	<0.000200	<0.000200	---	---	---	---	<0.0002	<0.000200	<0.000200
Molybdenum	---	---	---	<0.0500	---	---	---	---	---	---	<0.0500	---
Nickel	---	---	---	<0.0250	---	---	---	---	---	---	<0.0250	---
Potassium	10.9	---	---	---	---	16.3	---	14.6	---	---	---	---
Selenium	ND	---	<0.050	<0.0500	<0.0500	ND	---	ND	---	<0.050	<0.0500	<0.0500
Silver	---	---	<0.0125	<0.0125	<0.0125	---	---	---	---	<0.0125	<0.0125	<0.0125
Sodium	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	0.0301	---	---	---	---	---	---	0.0258	---
Cations/Anions												
Bicarbonate	284	---	---	---	---	345	---	202	---	---	---	---
Chloride	4.90	---	---	---	---	10	---	116.00	---	---	---	---
Fluoride	---	---	---	---	---	---	---	---	---	---	---	---
Nitrate-N	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate	10.9	---	---	---	---	62.3	---	562	---	---	---	---
TDS	454	---	---	---	---	1110	---	1520	---	---	---	---

TABLE III

SUMMARY OF GROUND WATER RESULTS - OTHER
SHELL PIPELINE COMPANY LP
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-16		MW-17		MW-21		
DATE SAMPLED	12/28/02	12/23/03	12/28/02	12/23/03	12/28/02	01/09/03	12/23/03
PARAMETER	CONCENTRATION (mg/l)						
PAH							
Acenaphthalene	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	---	<0.000200
Fluorene	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	---	<0.000200
Naphthalene	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	---	<0.000200
Phenanthrene	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	---	<0.000200
Pyrene	<0.000200	<0.000200	<0.000200	0.000200	<0.000200	---	<0.000200
TOTAL	<0.000200	<0.000200	<0.000200	0.000200	<0.000200	---	<0.000200
Metals							
Aluminum	<0.100	---	<0.100	---	5.87	---	---
Arsenic	<0.0500	<0.0100	<0.0500	<0.0100	<0.0500	---	<0.0100
Barium	<0.100	<0.100	<0.100	<0.100	0.158	---	<0.100
Boron	3.01	---	0.896	---	0.906	---	---
Cadmium	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	---	<0.00500
Calcium	---	---	---	---	98.6	---	---
Chromium	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	---	<0.0100
Cobalt	<0.0250	---	<0.0250	---	<0.0250	---	---
Copper	<0.0250	---	<0.0250	---	<0.0250	---	---
Iron	<0.0500	---	0.139	---	3.63	---	---
Lead	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	---	<0.0100
Magnesium	---	---	---	---	52.1	---	---
Manganese	<0.0250	---	<0.0250	---	0.0278	---	---
Mercury	<0.000200	0.000510	<0.000200	<0.000200	<0.000200	---	<0.000200
Molybdenum	<0.0500	---	<0.0500	---	<0.0500	---	---
Nickel	<0.0250	---	<0.0250	---	<0.0250	---	---
Potassium	---	---	---	---	10.4	---	---
Selenium	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	---	<0.0500
Silver	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	---	<0.0125
Sodium	---	---	---	---	61.4	---	---
Zinc	0.107	---	0.0482	---	0.0420	---	---
Cations/Anions							
Bicarbonate	---	---	---	---	328	---	---
Chloride	---	---	---	---	73.7	---	---
Fluoride	---	---	---	---	4.33	---	---
Nitrate-N	---	---	---	---	4.57	---	---
Sulfate	---	---	---	---	152	---	---
TDS	---	---	---	---	---	808	---

TABLE IV

SUMMARY OF PRODUCT RECOVERY
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

DATE	Flow Meter (gal)	PSH in Product Tank (gal)	Product Removed (gal)	Total Removed (gal)
1/16/2003	934,464	42,449	42,449	43,491
1/18/2003	942,629	42,601	42,601	43,651
1/20/2003	949,886	42,756	42,756	43,810
1/22/2003	957,596	42,882	42,882	43,940
1/24/2003	961,996	43,008	43,008	44,079
1/29/2003	984,659	43,352	43,352	44,436
1/30/2003	986,914	43,436	43,436	44,520
2/3/2003	1,005,220	43,630	43,630	44,730
2/5/2003	1,013,774	43,743	43,743	44,852
2/8/2003	1,028,667	43,802	43,802	44,915
2/10/2003	1,036,263	43,886	43,886	45,007
2/11/2003	1,037,681	43,915	43,915	45,041
2/16/2003	1,051,639	43,974	43,974	45,112
2/19/2003	1,060,761	44,033	44,033	45,184
3/16/2003	1,129,949	45,524	45,524	46,754
3/19/2003	1,137,659	46,070	46,070	47,309
3/22/2003	1,147,810	46,103	46,103	47,359
3/24/2003	1,150,129	46,103	46,103	47,368
3/28/2003	1,154,246	46,183	46,183	47,460
3/31/2003	1,161,529	46,246	46,246	47,536
4/3/2003	1,170,741	46,305	46,305	47,607
4/7/2003	1,179,829	46,393	46,393	47,708
4/8/2003	1,182,529	46,402	46,402	47,725
4/10/2003	1,190,429	46,456	46,456	47,783
4/15/2003	1,205,129	46,759	46,759	48,103
4/21/2003	1,225,329	46,767	46,767	48,136
4/24/2003	1,235,040	46,805	46,805	48,187
4/27/2003	1,244,599	46,851	46,851	48,245
5/1/2003	1,259,029	46,952	46,952	48,359
5/2/2003	1,262,929	46,977	46,977	48,388
5/6/2003	1,275,029	47,229	47,229	48,657
5/8/2003	1,281,445	47,254	47,254	48,691
5/13/2003	1,300,229	47,439	47,439	48,892
5/14/2003	1,302,834	47,443	47,443	48,905
5/18/2003	1,319,609	47,515	47,515	48,993
5/20/2003	1,322,124	47,519	47,519	49,001
5/21/2003	1,327,365	47,523	47,523	49,010
5/23/2003	1,337,823	47,523	47,523	49,018
5/25/2003	1,347,341	47,523	47,523	49,027
5/28/2003	1,364,734	47,531	47,531	49,043
6/5/2003	1,383,304	47,624	47,624	49,165
6/12/2003	1,401,163	47,733	47,733	49,304
6/13/2003	1,405,129	47,758	47,758	49,333
6/14/2003	1,408,371	47,788	47,788	49,363
6/15/2003	1,410,629	47,867	47,867	49,451

TABLE IV

SUMMARY OF PRODUCT RECOVERY
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

DATE	Flow Meter (gal)	PSH in Product Tank (gal)	Product Removed (gal)	Total Removed (gal)
6/16/2003	1,413,729	47,897	47,897	49,480
6/22/2003	1,424,574	47,981	47,981	49,585
6/25/2003	1,435,984	48,090	48,090	49,711
6/26/2003	1,438,129	48,090	48,090	49,715
6/29/2003	1,444,029	48,149	48,149	49,778
7/23/2003	1,495,283	48,460	48,460	50,190
8/3/2003	1,518,775	48,514	48,514	50,282
8/5/2003	1,523,046	48,544	48,544	50,329
8/12/2003	1,537,995	48,632	48,632	50,438
8/17/2003	1,548,673	48,632	48,632	50,455
8/20/2003	1,555,080	48,632	48,632	50,467
8/25/2003	1,565,758	48,720	48,720	50,576
8/30/2003	1,576,436	48,720	48,720	50,593
9/6/2003	1,591,385	48,833	48,833	50,736
9/12/2003	1,604,199	48,833	48,833	50,761
9/17/2003	1,614,877	48,922	48,922	50,866
9/20/2003	1,621,284	48,922	48,922	50,879
9/26/2003	1,634,098	49,064	49,064	51,047
9/27/2003	1,636,233	49,094	49,094	51,080
10/2/2003	1,646,911	49,094	49,094	51,101
10/12/2003	1,668,267	49,094	49,094	51,143
10/20/2003	1,685,352	49,111	49,111	51,190
10/23/2003	1,691,759	49,123	49,123	51,215
10/25/2003	1,696,030	49,123	49,123	51,240
11/4/2003	1,717,386	49,329	49,329	51,467
11/10/2003	1,730,199	49,329	49,329	51,492
11/17/2003	1,745,149	49,417	49,417	51,614
11/23/2003	1,757,962	49,505	49,505	51,723
11/27/2003	1,766,505	49,514	49,514	51,757
11/30/2003	1,772,911	49,526	49,526	51,778
12/2/2003	1,779,351	49,531	49,531	51,794
12/5/2003	1,789,010	49,531	49,531	51,807
12/8/2003	1,798,670	49,531	49,531	51,824
12/10/2003	1,805,109	49,552	49,552	51,853
12/11/2003	1,808,329	49,556	49,556	51,862
12/14/2003	1,817,989	49,568	49,568	51,891
12/15/2003	1,821,208	49,577	49,577	51,904
12/20/2003	1,837,307	49,585	49,585	51,937
12/23/2003	1,846,967	49,589	49,589	51,950
12/26/2003	1,856,626	49,602	49,602	51,979

TABLE V

SUMMARY OF EFFLUENT RESULTS - BTEX
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)								
		8/29/2001	8/30/2001	8/31/2001	9/1/2001	9/2/2001	9/3/2001	9/4/2001	9/5/2001	9/6/2001
Benzene	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	0.62	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total BTEX	---	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

NOTES:

The system was shut down in May, 2002 & brought back online in late July, 2002.

Effluent concentrations exceeded acceptable levels in October 2003. Filter media was changed and effluent concentrations returned to acceptable levels.

TABLE V

SUMMARY OF EFFLUENT RESULTS - BTEX
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)								
		9/7/2001	9/15/2001	9/22/2001	10/6/2001	12/22/2001	2/25/2002	3/27/2002	4/30/2002	7/9/2002
Benzene	0.01	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Toluene	0.75	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Ethylbenzene	0.75	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Total Xylenes	0.62	<0.001	<0.001	<0.001	<0.001	<0.005	0.005	<0.001	0.0053	<0.005
Total BTEX	---	<0.001	<0.001	<0.001	<0.001	<0.005	0.005	<0.001	0.0053	<0.005

NOTES:

The system was shut down in May, 2002 & brought back online in late July, 2002.

Effluent concentrations exceeded acceptable levels in October 2003. Filter media was changed and effluent concentrations returned to acceptable levels.

TABLE V

SUMMARY OF EFFLUENT RESULTS - BTEX
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)								
		8/21/2002	10/31/2002	11/30/2002	12/28/2002	1/30/2003	2/24/2003	3/22/2003	4/29/2003	5/30/2003
Benzene	0.01	<0.005	<0.005	<0.005	<0.00500	<0.005	<0.005	<0.00205	<0.00500	<0.00500
Toluene	0.75	<0.005	<0.005	<0.005	<0.00500	<0.005	<0.005	<0.00380	<0.00500	<0.00500
Ethylbenzene	0.75	<0.005	<0.005	<0.005	<0.00500	<0.005	<0.005	<0.00600	<0.00500	<0.00500
Total Xylenes	0.62	<0.005	<0.005	0.0127	0.019	<0.005	<0.005	<0.0181	<0.00500	<0.00500
Total BTEX	---	<0.005	0.008	0.0127	0.019	<0.005	<0.005	<0.0181	<0.00500	<0.00500

NOTES:

The system was shut down in May, 2002 & brought back online in late July, 2002.

Effluent concentrations exceeded acceptable levels in October 2003. Filter media was changed and effluent concentrations returned to acceptable levels.

TABLE V

SUMMARY OF EFFLUENT RESULTS - BTEX
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)						
		6/18/2003	7/26/2003	8/31/2003	9/22/2003	10/29/2003	11/25/2003	12/30/2003
Benzene	0.01	<0.00500	<0.00500	<0.00500	<0.00500	0.0630	<0.00100	<0.001
Toluene	0.75	<0.00500	<0.00500	<0.00500	<0.00500	0.283	<0.00100	<0.001
Ethylbenzene	0.75	<0.00500	<0.00500	<0.00500	<0.00500	0.144	<0.00100	<0.001
Total Xylenes	0.62	<0.00500	<0.00500	0.00920	<0.00500	0.572	0.00170	<0.001
Total BTEX	---	<0.00500	<0.00500	0.00920	<0.00500	1.062	0.00170	<0.001

NOTES:

The system was shut down in May, 2002 & brought back online in late July, 2002.

Effluent concentrations exceeded acceptable levels in October 2003. Filter media was changed and effluent concentrations returned to acceptable levels.

TABLE VI

SUMMARY OF EFFLUENT RESULTS - METALS
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)			
		8/29/2001	9/15/2001	1/9/2003	12/30/2003
Arsenic	0.1	0.11	<0.050	---	<0.0100
Barium	1	<0.100	---	---	0.0320
Cadmium	0.01	<0.025	<0.01	---	<0.00500
Chromium	0.05	<0.010	---	---	<0.0100
Lead	0.05	<0.010	---	---	<0.0100
Total Mercury	0.002	<0.0002	---	---	<0.0002200
Selenium	0.05	<0.050	---	---	<0.0100
Silver	0.05	<0.013	---	---	<0.0125
Copper	1	<0.013	---	<0.0250	---
Iron	1	<0.050	---	<0.0500	---
Manganese	0.2	0.410	<0.025	0.0578	---
Aluminum	5	0.634	---	<0.100	---
Boron	0.75	0.314	---	1.15	---
Cobalt	0.05	<0.025	---	<0.0200	---
Molybdenum	1	<0.050	---	<0.0500	---
Nickel	0.2	<0.025	---	<0.0250	---

NOTE:
Sock filters were added to the treatment process and the effluent was resampled for the constituents which previously exceeded the re-inection requirements.

TABLE VI

SUMMARY OF EFFLUENT RESULTS - METALS
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)			
		8/29/2001	9/15/2001	1/9/2003	12/30/2003
Arsenic	0.1	0.11	<0.050	---	<0.0100
Barium	1	<0.100	---	---	0.0320
Cadmium	0.01	<0.025	<0.01	---	<0.00500
Chromium	0.05	<0.010	---	---	<0.0100
Lead	0.05	<0.010	---	---	<0.0100
Total Mercury	0.002	<0.0002	---	---	<0.0002200
Selenium	0.05	<0.050	---	---	<0.0100
Silver	0.05	<0.013	---	---	<0.0125
Copper	1	<0.013	---	<0.0250	---
Iron	1	<0.050	---	<0.0500	---
Manganese	0.2	0.410	<0.025	0.0578	---
Aluminum	5	0.634	---	<0.100	---
Boron	0.75	0.314	---	1.15	---
Cobalt	0.05	<0.025	---	<0.0200	---
Molybdenum	1	<0.050	---	<0.0500	---
Nickel	0.2	<0.025	---	<0.0250	---

NOTE:
Sock filters were added to the treatment process and the effluent was resampled for the constituents which previously exceeded the re-inection requirements.

TABLE VII

SUMMARY OF EFFLUENT RESULTS - PAH
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)			
		8/29/2001	9/15/2001	1/9/2003	12/30/2003
Carbon Tetrachloride	0.01	<0.001	---	---	<0.001
1,2-Dichloroethane	0.01	<0.001	---	---	<0.001
1,1-Dichloroethylene	0.005	<0.001	---	---	---
1,1,2,2-Tetrachloroethylene	0.02	---	<0.001	---	---
1,1,2-Trichloroethylene	0.1	<0.001	---	---	---
Methylene Chloride	0.1	0.00112	---	---	<0.005
Chloroform	0.1	<0.001	---	---	<0.001
1,1-Dichloroethane	0.025	<0.001	---	---	<0.001
Ethylene Dibromide	0.0001	---	<0.001	---	---
1,1,1-Trichloroethane	0.06	<0.001	---	---	<0.001
1,1,2-Trichloroethane	0.01	<0.001	---	---	<0.001
1,1,2,2-Tetrachloroethane	0.01	<0.001	---	---	<0.001
Vinyl Chloride	0.001	<0.001	---	---	<0.001
PAHs	0.03	<0.005	---	0.00191	<0.0002200
Benzo-a-pyrene	0.0007	<0.005	---	<0.000200	<0.0002200
Phenols	0.005	<0.005	---	---	---

NOTE:
All PAH concentrations for the sample obtained on 01/09/03 were below <0.000200 except for pyrene, which was 0.00191.

TABLE VIII

SUMMARY OF EFFLUENT RESULTS - OTHER
SHELL PIPELINE COMPANY LP
JAL BASIN STATION
LEA COUNTY, NEW MEXICO

Constituent	Acceptable Concentration (mg/L)	Concentration (mg/L)		
		8/29/2001	1/9/2003	12/30/2003
Cyanide	0.2	<0.01	---	<0.0100
Fluoride	1.6	3.12	---	3.87
Nitrate (NO_3 as N)	10	2.90	2.21	<1.00
Chloride	250	168	37.1	50.9
Sulfate	600	366	162	171
Total Dissolved Solids (TDS)	1000	1160	887	766
pH	between 6 and 9	7.9	8.10	---

NOTE:
The fluoride and total dissolved solids concentrations are within background concentrations within groundwater.

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Thresa Nix
H2A Environmental
418 San Saba
Portland, TX 78374

Report Date: April 2, 2003

Work Order: 3032602

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
3532	MW-1	water	2003-03-22	10:30	2003-03-25
3533	MW-5	water	2003-03-22	11:00	2003-03-25
3534	MW-11	water	2003-03-22	11:30	2003-03-25
3535	MW-13	water	2003-03-22	12:30	2003-03-25
3536	MW-15	water	2003-03-22	12:00	2003-03-25
3537	MW-16	water	2003-03-22	10:00	2003-03-25
3538	MW-17	water	2003-03-22	09:00	2003-03-25
3539	MW-21	water	2003-03-22	08:00	2003-03-25
3542	Effluent	water	2003-03-22	13:30	2003-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Notes:
All sample results are reported on a dry weight basis.
For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

U - Not detected. The analyte is not detected above the SQL.
J - Estimated. The analyte is positively identified and the value is approximated between the SQL and MQL.
B - The sample contains less than ten times the concentration found in the method blank.
JB - The analyte is positively identified and the value is approximated between the SQL and MQL. The sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SQL.

Dr. Blair Leftwich, Director

Analytical Report

Note: *All sample results are reported on a dry weight basis.*

Sample: 3532 - MW-1

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0974	mg/L	1	0.100	97	39.4 - 109

Sample: 3533 - MW-5

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0996	mg/L	1	0.100	100	39.4 - 109

Sample: 3534 - MW-11

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0985	mg/L	1	0.100	98	39.4 - 109

Sample: 3535 - MW-13

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0976	mg/L	1	0.100	98	39.4 - 109

Sample: 3536 - MW-15

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0992	mg/L	1	0.100	99	39.4 - 109

Sample: 3537 - MW-16

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035

continued ...

sample 3537 continued ...

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	71 - 118
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	39.4 - 109

Sample: 3538 - MW-17

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	71 - 118
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	39.4 - 109

Sample: 3539 - MW-21

Analysis:	BTEX (TRRP)	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	617	Date Analyzed:	2003-03-26	Analyzed By:	CG
Prep Batch:	567	Date Prepared:	2003-03-26	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000350	<0.00100	<0.000350	mg/L	1	0.000350	0.001	0.00035
Toluene	U	<0.000550	<0.00100	<0.000550	mg/L	1	0.000550	0.001	0.00055
Ethylbenzene	U	<0.000690	<0.00100	<0.000690	mg/L	1	0.000690	0.001	0.00069
Xylene (isomers)	U	<0.00183	<0.00100	<0.00183	mg/L	1	0.00183	0.001	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	71 - 118
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	39.4 - 109

Sample: 3542 - Effluent

Analysis:	BTEX (TRRP)	Analytical Method:	E 602	Prep Method:	N/A
QC Batch:	641	Date Analyzed:	2003-03-28	Analyzed By:	CG
Prep Batch:	587	Date Prepared:	2003-03-28	Prepared By:	CG

Parameter	Flag	SQL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SQL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00205	<0.00500	<0.00205	mg/L	5	0.000410	0.001	0.00041
Toluene	U	<0.00380	<0.00500	<0.00380	mg/L	5	0.000760	0.001	0.00076
Ethylbenzene	U	<0.00600	<0.00500	<0.00600	mg/L	5	0.00120	0.001	0.0012
Xylene (isomers)	U	<0.0181	<0.00500	<0.0181	mg/L	5	0.00362	0.001	0.00362

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.519	mg/L	5	0.100	104	78.7 - 110
4-Bromofluorobenzene (4-BFB)		0.503	mg/L	5	0.100	101	77.8 - 110

Method Blank (1) QC Batch: 617

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.000350	mg/L	0.00035
Toluene		<0.000550	mg/L	0.00055
Ethylbenzene		<0.000690	mg/L	0.00069
Xylene (isomers)		<0.00183	mg/L	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	71 - 118
4-Bromofluorobenzene (4-BFB)		0.0958	mg/L	1	0.100	96	39.4 - 109

Method Blank (1) QC Batch: 641

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.000410	mg/L	0.00041
Toluene		<0.000760	mg/L	0.00076
Ethylbenzene		<0.00120	mg/L	0.0012
Xylene (isomers)		<0.00362	mg/L	0.00362

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	78.7 - 110
4-Bromofluorobenzene (4-BFB)		0.0962	mg/L	1	0.100	96	77.8 - 110

Laboratory Control Spike (LCS-1) QC Batch: 617

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0989	0.0963	mg/L	1	0.100	<0.000350	99	1	77.7 - 115	20
Toluene	0.0992	0.0960	mg/L	1	0.100	<0.000550	99	2	76.5 - 114	20
Ethylbenzene	0.100	0.0976	mg/L	1	0.100	<0.000690	100	1	78.7 - 112	20
Xylene (isomers)	0.303	0.294	mg/L	1	0.300	<0.00183	101	1	66.3 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0998	0.0997	mg/L	1	0.100	100	100	61 - 127
4-Bromofluorobenzene (4-BFB)	0.107	0.108	mg/L	1	0.100	107	108	72.6 - 130

Laboratory Control Spike (LCS-1) QC Batch: 641

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0988	0.0967	mg/L	1	0.100	<0.000410	99	1	80.6 - 113	20
Toluene	0.0987	0.0961	mg/L	1	0.100	<0.000760	99	1	81.2 - 112	20
Ethylbenzene	0.0981	0.0961	mg/L	1	0.100	<0.00120	98	1	82.2 - 112	20
Xylene (isomers)	0.296	0.291	mg/L	1	0.300	<0.00362	99	1	80.6 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.0990	mg/L	1	0.100	101	99	78.7 - 110
4-Bromofluorobenzene (4-BFB)	0.101	0.0995	mg/L	1	0.100	101	100	77.8 - 110

Standard (ICV-1) QC Batch: 617

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0966	97	85 - 115	2003-03-26
Toluene		mg/L	0.100	0.0962	96	85 - 115	2003-03-26
Ethylbenzene		mg/L	0.100	0.0975	98	85 - 115	2003-03-26
Xylene (isomers)		mg/L	0.300	0.298	99	85 - 115	2003-03-26

Standard (CCV-1) QC Batch: 617

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2003-03-26
Toluene		mg/L	0.100	0.0995	100	85 - 115	2003-03-26
Ethylbenzene		mg/L	0.100	0.0999	100	85 - 115	2003-03-26
Xylene (isomers)		mg/L	0.300	0.300	100	85 - 115	2003-03-26

Standard (CCV-2) QC Batch: 617

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2003-03-26
Benzene		mg/L	0.100	0.101	101	85 - 115	2003-03-26
Toluene		mg/L	0.100	0.100	100	85 - 115	2003-03-26
Toluene		mg/L	0.100	0.100	100	85 - 115	2003-03-26
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2003-03-26
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2003-03-26
Xylene (isomers)		mg/L	0.300	0.304	102	85 - 115	2003-03-26
Xylene (isomers)		mg/L	0.300	0.304	102	85 - 115	2003-03-26

Standard (ICV-1) QC Batch: 641

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0969	97	85 - 115	2003-03-28
Toluene		mg/L	0.100	0.0974	97	85 - 115	2003-03-28
Ethylbenzene		mg/L	0.100	0.0975	98	85 - 115	2003-03-28
Xylene (isomers)		mg/L	0.300	0.295	98	85 - 115	2003-03-28

Standard (CCV-2) QC Batch: 641

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0959	96	85 - 115	2003-03-28
Toluene		mg/L	0.100	0.0960	96	85 - 115	2003-03-28
Ethylbenzene		mg/L	0.100	0.0950	95	85 - 115	2003-03-28
Xylene (isomers)		mg/L	0.300	0.288	96	85 - 115	2003-03-28

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Thresa Nix
H2A Environmental
418 San Saba
Portland, TX 78374

Report Date: April 2, 2003

Work Order: 3032602

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
3540	LRP1	air	2003-03-22	14:00	2003-03-25
3541	LRP2	air	2003-03-22	14:00	2003-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 3540 - LRP1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	703	Date Analyzed:	2003-03-31	Analyzed By:	CG
Prep Batch:	651	Date Prepared:	2003-03-31	Prepared By:	CG

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		494	mg/m3	1000	0.100

Sample: 3541 - LRP2

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	703	Date Analyzed:	2003-03-31	Analyzed By:	CG
Prep Batch:	651	Date Prepared:	2003-03-31	Prepared By:	CG

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		390	mg/m3	1000	0.100

Method Blank (1) QC Batch: 703

Parameter	Flag	Result	Units	MDL
TVHC		<0.100	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 703

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TVHC	0.864	0.943	mg/L	1	1.00	<0.100	86	4	78.1 - 124	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 703

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.991	99	85 - 115	2003-03-31

Standard (CCV-2) QC Batch: 703

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.901	90	85 - 115	2003-03-31

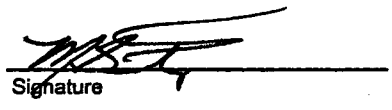
Appendix A Laboratory Data Package Cover Page

This data package consists of:

- ☐ This signature page, the laboratory review checklist, and the following reportable data:
- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
  - a) calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) MS/MSD spiking amounts,
  - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.
- ☐ The Exception Report for every "No" or "Not Reviewed (NR)" item in the laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to the rule. The official signing of the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Marc Stroope		Production Manager	04/03/03
Name (Printed)	Signature	Official Title (Print)	Date

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TraceAnalysis, Inc.	LRC Date: 04/03/03
Project Name: Jal Basin Station	Laboratory Job Number: 3032602
Reviewer Name: Marc Stroope	Prep Batch Number(s): N/A

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (COC)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from the strandard conditions described in an exception report?	✓				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**Test Reports**					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results <-MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample quantitation limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		If required for the project, TICs reported?			✓		
R4	OI	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at the required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		Was the LCSD RPD within QC limits?	✓				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS ansd MSD?			✓		
		Were MS/MSD analyzed at the appropriate frequency?			✓		

1 Items identified by the letter "R" should be included in ther laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate period.

2 O = organic analyses: I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report shold be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TraceAnalysis, Inc.	LRC Date: 04/03/03
Project Name: Jal Basin Station	Laboratory Job Number: 3032602
Reviewer Name: Marc Stroope	Prep Batch Number(s): N/A

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		
		Were MS/MSD RPDs within laboratory QC limits?			✓		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			✓		
		Were analytical duplicates analyzed at the appropriate frequency?			✓		
		Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	***Other problems/anomalies***					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Were all necessary corrective actions performed for the reported data?	✓				
		Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		Were percent RSDs or correlation coefficient criteria met?	✓				
		Was the number of standards recommended in the method used for all analytes?	✓				
		Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		Are ICAL data available for all instruments used?	✓				
		Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	✓				
		Were percent differences for each analyte within the method-required QC limits?	✓				
		Was the ICAL curve verified for each analyte?	✓				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	OI	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			✓		
		Were ion abunance data within the method-required QC limits?			✓		
S4	OI	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			✓		
S5	OI	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				

1 Items identified by the letter "R" should be included in ther laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate period.

2 O = organic analyses: I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report shold be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TraceAnalysis, Inc.	LRC Date: 04/03/03
Project Name: Jal Basin Station	Laboratory Job Number: 3032402
Reviewer Name: Marc Stroope	Prep Batch Number(s): N/A

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			✓		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			✓		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent diffenences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	✓				
		Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**Standards documantation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
		Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	**Verification/validation documentation for methods** (NELAC Chapter 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in ther laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate period.

2 O = organic analyses: I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report shold be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TraceAnalysis, Inc.	LRC Date: 04/03/03
Project Name: JAL BASIN STATION	Laboratory Job Number: 303202
Reviewer Name: Marc Stroope	Prep Batch Number(s): N/A
ER#[1] Description	

NONE TO REPORT.

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

3532-42

Page 2 of 7

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3032602

Company Name: H2A Environmental Phone #: 361-777-0860

Address: (Street, City, Zip) 418 San Saba Portland TX 78374 Fax #: 361-777-0971

Contact Person: Jena Henry Equilon LLC CRMT P.O. Box 2648

Invoice to: (If different from above) Houston TX 77252-2648 Phone 713-241-0236 Fax 4116

Project #: 106.001 Project Name: Jal Station

Project Location: Jal NM Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 6015 DRO GRO					Turn Around Time if different from standard	Hold
3532	MW-1	2	2(40)	X				X				X		3-22	1030	X																					
3533	MW-5														1100																						
3534	MW-11														1130																						
3535	MW-13														1230																						
3536	MW-15														1200																						
3537	MW-16														1000																						
3538	MW-17														0900																						
3539	MW-21														0800																						
3540	LRP1	~~2~~ 1	1L			X									1400															X							
3541	LRP2	1	1L			X									1400															X							
3542	Effluent	2	2(40)	X				X				X			1330	X																					

Relinquished by: Date: 3-24-03 Time: ~~1500~~ 1500 Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: 3-26-03 Time: 15:35

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 5 °

Log-in Review

REMARKS:

4/3 FIP

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 834679784285

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Analytical and Quality Control Report

H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: July 8, 2003

Work Order: 3062315

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
11063	MW-1	water	2003-06-18	12:30	2003-06-23
11064	MW-5	water	2003-06-18	11:30	2003-06-23
11065	MW-11	water	2003-06-18	13:30	2003-06-23
11066	MW-13	water	2003-06-18	15:30	2003-06-23
11067	MW-15	water	2003-06-18	14:30	2003-06-23
11068	MW-16	water	2003-06-18	08:30	2003-06-23
11069	MW-17	water	2003-06-18	09:30	2003-06-23
11070	MW-21	water	2003-06-18	10:30	2003-06-23
11071	Effluent	water	2003-06-18	16:00	2003-06-23
11072	LRP-1	Air	2003-06-18	16:30	2003-06-23
11073	LRP-2	Air	2003-06-18	11:30	2003-06-23

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 11063 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0874	mg/L	1	0.100	87	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0851	mg/L	1	0.100	85	72.6 - 130

Sample: 11064 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0914	mg/L	1	0.100	91	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	72.6 - 130

Sample: 11065 - MW-11

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0867	mg/L	1	0.100	87	61 - 127

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.0840	mg/L	1	0.100	84	72.6 - 130

Sample: 11066 - MW-13

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0872	mg/L	1	0.100	87	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0849	mg/L	1	0.100	85	72.6 - 130

Sample: 11067 - MW-15

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0868	mg/L	1	0.100	87	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0829	mg/L	1	0.100	83	72.6 - 130

Sample: 11068 - MW-16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100

continued ...

sample 11068 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0863	mg/L	1	0.100	86	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0829	mg/L	1	0.100	83	72.6 - 130

Sample: 11069 - MW-17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2614	Date Analyzed:	2003-06-27	Analyzed By:	BS
Prep Batch:	2309	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00500	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene (isomers)		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.402	mg/L	5	0.100	80	61 - 127
4-Bromofluorobenzene (4-BFB)		0.390	mg/L	5	0.100	78	72.6 - 130

Sample: 11070 - MW-21

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2611	Date Analyzed:	2003-06-28	Analyzed By:	BS
Prep Batch:	2306	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0769	mg/L	1	0.100	77	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0794	mg/L	1	0.100	79	70 - 130

Sample: 11071 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	2611	Date Analyzed:	2003-06-28	Analyzed By:	BS
Prep Batch:	2306	Date Prepared:	2003-06-27	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00500	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene (isomers)		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.445	mg/L	5	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)		0.400	mg/L	5	0.100	80	70 - 130

Sample: 11072 - LRP-1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	2742	Date Analyzed:	2003-07-07	Analyzed By:	BS
Prep Batch:	2491	Date Prepared:	2003-07-07	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		312	mg/m3	1000	0.100

Sample: 11073 - LRP-2

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	2742	Date Analyzed:	2003-07-07	Analyzed By:	BS
Prep Batch:	2491	Date Prepared:	2003-07-07	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		309	mg/m3	1000	0.100

Method Blank (1) QC Batch: 2611

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0958	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0828	mg/L	1	0.100	83	70 - 130

Method Blank (1) QC Batch: 2614

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/L	1	0.100	90	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0894	mg/L	1	0.100	89	72.6 - 130

Method Blank (1) QC Batch: 2742

Parameter	Flag	Result	Units	RL
TVHC		<0.100	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 2611

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0935	0.0952	mg/L	1	0.100	<0.000650	94	2	79.9 - 111	20
Toluene	0.0865	0.0973	mg/L	1	0.100	<0.00101	86	12	70.3 - 116	20
Ethylbenzene	0.0941	0.0923	mg/L	1	0.100	<0.000840	94	2	72.1 - 117	20
Xylene (isomers)	0.257	0.258	mg/L	1	0.300	<0.000737	86	0	71.2 - 117	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0881	0.0872	mg/L	1	0.100	88	87	72.7 - 119
4-Bromofluorobenzene (4-BFB)	0.0851	0.102	mg/L	1	0.100	85	102	76.4 - 113

Laboratory Control Spike (LCS-1) QC Batch: 2614

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0993	0.0987	mg/L	1	0.100	<0.000350	99	1	77.7 - 115	20
Toluene	0.0990	0.0985	mg/L	1	0.100	<0.000550	99	0	76.5 - 114	20
Ethylbenzene	0.0998	0.0994	mg/L	1	0.100	<0.000690	100	0	78.7 - 112	20
Xylene (isomers)	0.292	0.291	mg/L	1	0.300	<0.000610	97	0	66.3 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0898	0.0932	mg/L	1	0.100	90	93	61 - 127
4-Bromofluorobenzene (4-BFB)	0.0971	0.0978	mg/L	1	0.100	97	98	72.6 - 130

Standard (ICV-1) QC Batch: 2611

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2003-06-28
Toluene		mg/L	0.100	0.0893	89	85 - 115	2003-06-28
Ethylbenzene		mg/L	0.100	0.0996	100	85 - 115	2003-06-28
Xylene (isomers)		mg/L	0.300	0.261	87	85 - 115	2003-06-28

Standard (CCV-1) QC Batch: 2611

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0855	86	85 - 115	2003-06-28
Toluene		mg/L	0.100	0.0930	93	85 - 115	2003-06-28
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2003-06-28
Xylene (isomers)		mg/L	0.300	0.275	92	85 - 115	2003-06-28

Standard (CCV-1) QC Batch: 2614

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	85 - 115	2003-06-27
Toluene		mg/L	0.100	0.110	110	85 - 115	2003-06-27
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2003-06-27
Xylene (isomers)		mg/L	0.300	0.327	109	85 - 115	2003-06-27

Standard (CCV-2) QC Batch: 2614

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	85 - 115	2003-06-27
Toluene		mg/L	0.100	0.112	112	85 - 115	2003-06-27
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2003-06-27
Xylene (isomers)		mg/L	0.300	0.330	110	85 - 115	2003-06-27

Standard (ICV-1) QC Batch: 2742

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.10	110	85 - 115	2003-07-07

Standard (CCV-1) QC Batch: 2742

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.877	88	85 - 115	2003-07-07

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3062315

Company Name: H2A Environmental — Phone #: 361-777-0860

Address: (Street, City, Zip) 418 San Saba Portland TX 78374 — Fax #: 361-777-0971

Contact Person: Jena Henry Equiton LLC CRMT P.O Box 2648 Houston TX 77252-2648

Invoice to: (If different from above) Plane 713-241-0236 Fax 713-241-4115

Project #: 106.001 — Project Name: Jal Station

Project Location: Jal NM — Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
11063	mw-1	2	40	X				X				X		6-18	1230
64	mw-5														1130
65	mw-11														1330
66	mw-13														1530
67	mw-15														1430
68	mw-16														0830
69	mw-17	1													0930
70	mw-21														1030
71	Effluent														1600
72	LRP-1	1	1L			X									1020
73	LRP-2														1630

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO GRO					Turn Around Time if different from standard	Hold
	X														X						
	X														X						
															X						

Relinquished by: — Date: 6-20-03 — Time: 1240 — Received by: — Date: — Time:

Relinquished by: — Date: — Time: — Received by: — Date: — Time:

Relinquished by: — Date: — Time: — Received at Laboratory by: Vicki Dennis — Date: 6-23-03 — Time: 12:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 28° °
Log-in Review

REMARKS:

☐ Check if Special Reporting Limits Are Needed

Carrier # Fedex 8346 7980 2016

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Report Date: July 8, 2003
106.001

Work Order: 3062315
Jal Basin Station

Page Number: 8 of 8
2 miles south of Jal, NM on Hwy 18

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: October 9, 2003

Work Order: 3093002

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
18531	MW-1	water	2003-09-22	08:00	2003-09-30
18532	MW-5	water	2003-09-22	08:30	2003-09-30
18533	MW-11	water	2003-09-22	09:00	2003-09-30
18534	MW-15	water	2003-09-22	09:30	2003-09-30
18535	MW-13	water	2003-09-22	10:00	2003-09-30
18536	MW-17	water	2003-09-22	12:30	2003-09-30
18537	MW-21	water	2003-09-22	13:30	2003-09-30
18538	MW-16	water	2003-09-22	14:30	2003-09-30
18539	Effluent	water	2003-09-22	07:00	2003-09-30

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
18531 - MW-1	<0.00500	<0.00500	<0.00500	<0.00500
18532 - MW-5	<0.00100	<0.00100	<0.00100	<0.00100
18533 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
18534 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
18535 - MW-13	<0.00100	<0.00100	<0.00100	<0.00100
18536 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
18537 - MW-21	<0.00100	<0.00100	<0.00100	<0.00100
18538 - MW-16	<0.00100	<0.00100	<0.00100	<0.00100
18539 - Effluent	<0.00500	<0.00500	<0.00500	<0.00500

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: October 9, 2003

Work Order: 3093002

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
18531	MW-1	water	2003-09-22	08:00	2003-09-30
18532	MW-5	water	2003-09-22	08:30	2003-09-30
18533	MW-11	water	2003-09-22	09:00	2003-09-30
18534	MW-15	water	2003-09-22	09:30	2003-09-30
18535	MW-13	water	2003-09-22	10:00	2003-09-30
18536	MW-17	water	2003-09-22	12:30	2003-09-30
18537	MW-21	water	2003-09-22	13:30	2003-09-30
18538	MW-16	water	2003-09-22	14:30	2003-09-30
18539	Effluent	water	2003-09-22	07:00	2003-09-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 18531 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00500		mg/L	5	0.00100
Toluene		<0.00500		mg/L	5	0.00100
Ethylbenzene		<0.00500		mg/L	5	0.00100
Xylene (isomers)		<0.00500		mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.430	mg/L	5	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)	[1]	0.280	mg/L	5	0.100	56	70 - 130

Sample: 18532 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)	[2]	0.0508	mg/L	1	0.100	51	70 - 130

Sample: 18533 - MW-11

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

[1] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[2] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0821	mg/L	1	0.100	82	70 - 130
4-Bromofluorobenzene (4-BFB)	[3]	0.0420	mg/L	1	0.100	42	70 - 130

Sample: 18534 - MW-15

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0827	mg/L	1	0.100	83	70 - 130
4-Bromofluorobenzene (4-BFB)	[4]	0.0414	mg/L	1	0.100	41	70 - 130

Sample: 18535 - MW-13

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0798	mg/L	1	0.100	80	70 - 130
4-Bromofluorobenzene (4-BFB)	[5]	0.0411	mg/L	1	0.100	41	70 - 130

Sample: 18536 - MW-17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

[3]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[4]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[5]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0814	mg/L	1	0.100	81	70 - 130
4-Bromofluorobenzene (4-BFB)	[6]	0.0408	mg/L	1	0.100	41	70 - 130

Sample: 18537 - MW-21

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0847	mg/L	1	0.100	85	70 - 130
4-Bromofluorobenzene (4-BFB)	[7]	0.0422	mg/L	1	0.100	42	70 - 130

Sample: 18538 - MW-16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0852	mg/L	1	0.100	85	70 - 130
4-Bromofluorobenzene (4-BFB)	[8]	0.0405	mg/L	1	0.100	40	70 - 130

[6]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[7]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[8]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Sample: 18539 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	4760	Date Analyzed:	2003-09-30	Analyzed By:	MT
Prep Batch:	4273	Date Prepared:	2003-09-30	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00500		mg/L	5	0.00100
Toluene		<0.00500		mg/L	5	0.00100
Ethylbenzene		<0.00500		mg/L	5	0.00100
Xylene (isomers)		<0.00500		mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.411	mg/L	5	0.100	82	70 - 130
4-Bromofluorobenzene (4-BFB)	[9]	0.303	mg/L	5	0.100	61	70 - 130

Method Blank (1) QC Batch: 4760

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0843	mg/L	1	0.100	84	70 - 130
4-Bromofluorobenzene (4-BFB)	[10]	0.0526	mg/L	1	0.100	53	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 4760

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.105	0.104	mg/L	1	0.100	<0.000650	105	0	65.9 - 129	20
Toluene	0.103	0.103	mg/L	1	0.100	<0.00101	103	0	74.1 - 122	20
Ethylbenzene	0.103	0.102	mg/L	1	0.100	<0.000840	103	1	68 - 125	20
Xylene (isomers)	0.310	0.308	mg/L	1	0.300	<0.000737	104	1	67 - 122	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0953	0.0933	mg/L	1	0.100	95	93	52.9 - 135
4-Bromofluorobenzene (4-BFB)	0.0925	0.0893	mg/L	1	0.100	92	89	45.5 - 147

Standard (ICV-1) QC Batch: 4760

[9] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[10] Low surrogate recovery due to prep. ICV, CCV show the method to be in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0968	97	85 - 115	2003-09-30
Toluene		mg/L	0.100	0.0961	96	85 - 115	2003-09-30
Ethylbenzene		mg/L	0.100	0.0954	95	85 - 115	2003-09-30
Xylene (isomers)		mg/L	0.300	0.287	96	85 - 115	2003-09-30

Standard (CCV-1) QC Batch: 4760

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2003-09-30
Toluene		mg/L	0.100	0.102	102	85 - 115	2003-09-30
Ethylbenzene		mg/L	0.100	0.0998	100	85 - 115	2003-09-30
Xylene (isomers)		mg/L	0.300	0.299	100	85 - 115	2003-09-30

Page 7 of 7

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3093002

Company Name: H2A Environmental
Phone #: 281-679-8852
Address: (Street, City, Zip) 11999 Katy Freeway Suite 320 Houston 77079
Fax #: 281-679-8854
Contact Person: Monica Slenton
Invoice to: (If different from above)
Project #: 106.001
Project Name: Jal Sbtrol
Project Location: Jal NM
Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602; BTEX 8021B/602; TPH 418 1/TX1005; PAH 8270C; Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7; TCLP Metals Ag As Ba Cd Cr Pb Se Hg; TCLP Volatiles; TCLP Semi Volatiles; TCLP Pesticides; RCI; GC/MS Vol 8260B/624; GC/MS Semi Vol 8270C/625; PCB's 8082/608; Pesticides 8081A/608; BOD, TSS pH; TPH 8015 DRO; Turn Around Time if different from standard; Hold

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	WATER	SOIL	AIR	SLUDGE	HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	DATE	TIME	BTEX 8021B/602	TPH 8015 DRO
18531	MW-7	2	2(40)	X				X				X		9-22	800	X	
32	MW-5	↓	↓	↓				↓				↓		↓	830	↓	
33	MW-11														900		
34	MW-15														930		
35	MW-13														1000		
36	MW-77														1230		
37	MW-21														1330		
38	MW-16														1400		
39	Effluent													9-24	700		
40	LRP 7	1	1L	~~X~~	~~X~~			~~X~~				↓		↓	710		X

(correction initialed 9/30/03)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]					
			Received at Laboratory by: [signature]	9-30-03	10:07

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 24°C
Log-in Review [initials]
Carrier # FedEx 834679801991

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: January 7, 2004

Work Order: 3122901

Incident #: 300143
Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
24107	MW-1	water	2003-12-23	08:00	2003-12-29
24108	MW-5	water	2003-12-23	09:00	2003-12-29
24109	MW-11	water	2003-12-23	10:00	2003-12-29
24110	MW-13	water	2003-12-23	12:00	2003-12-29
24111	MW-15	water	2003-12-23	11:00	2003-12-29
24112	MW-16	water	2003-12-22	10:00	2003-12-29
24113	MW-17	water	2003-12-22	09:00	2003-12-29
24114	MW-21	water	2003-12-22	08:00	2003-12-29

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
24107 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100
24108 - MW-5	<0.00100	<0.00100	<0.00100	<0.00100
24109 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
24110 - MW-13	<0.00100	<0.00100	<0.00100	<0.00100
24111 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
24112 - MW-16	<0.00100	<0.00100	<0.00100	<0.00100
24113 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
24114 - MW-21	<0.00100	<0.00100	<0.00100	<0.00100

Sample: 24107 - MW-1

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200

continued ...

sample 24107 continued ...

Param	Flag	Result	Units	RL
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		<0.100	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24108 - MW-5

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		0.442	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		0.0140	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24109 - MW-11

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200

continued ...

sample 24109 continued ...

Param	Flag	Result	Units	RL
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		0.102	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		0.0150	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24110 - MW-13

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		0.360	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		0.0180	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24111 - MW-15

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		0.108	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		0.0140	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24112 - MW-16

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		<0.100	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		0.000510	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24113 - MW-17

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		<0.100	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Sample: 24114 - MW-21

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		<0.100	mg/L	0.100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		0.00135	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0500	mg/L	0.0500

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: January 7, 2004

Work Order: 3122901

Incident #: 300143
Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
24107	MW-1	water	2003-12-23	08:00	2003-12-29
24108	MW-5	water	2003-12-23	09:00	2003-12-29
24109	MW-11	water	2003-12-23	10:00	2003-12-29
24110	MW-13	water	2003-12-23	12:00	2003-12-29
24111	MW-15	water	2003-12-23	11:00	2003-12-29
24112	MW-16	water	2003-12-22	10:00	2003-12-29
24113	MW-17	water	2003-12-22	09:00	2003-12-29
24114	MW-21	water	2003-12-22	08:00	2003-12-29

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 24107 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0728	mg/L	1	0.100	73	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[1]	0.0122	mg/L	1	0.100	12	66.2 - 122

Sample: 24107 - MW-1

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200
Pyrene		<0.000200	mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.001	0.200
Chrysene		<0.000200	mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0424	mg/L	0.001	80.0	53	21 - 145
2-Fluorobiphenyl		0.0454	mg/L	0.001	80.0	57	25 - 145
Terphenyl-d14		0.0375	mg/L	0.001	80.0	47	26 - 127

[1] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Sample: 24107 - MW-1

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6624	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5893	Date Prepared:	2003-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		<0.100	mg/L	1	0.100
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		<0.0100	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0500	mg/L	1	0.0500

Sample: 24108 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.0439	mg/L	1	0.100	44	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[3]	0.00420	mg/L	1	0.100	4	66.2 - 122

Sample: 24108 - MW-5

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200

continued ...

[2]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[3]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

sample 24108 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Pyrene		<0.000200		mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200		mg/L	0.001	0.200
Chrysene		<0.000200		mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200		mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200		mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200		mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200		mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0392	mg/L	0.001	80.0	49	21 - 145
2-Fluorobiphenyl		0.0432	mg/L	0.001	80.0	54	25 - 145
Terphenyl-d14		0.0386	mg/L	0.001	80.0	48	26 - 127

Sample: 24108 - MW-5

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6624	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5893	Date Prepared:	2003-12-29	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0125		mg/L	1	0.0125
Total Arsenic		<0.0100		mg/L	1	0.0100
Total Barium		0.442		mg/L	1	0.100
Total Cadmium		<0.00500		mg/L	1	0.00500
Total Chromium		0.0140		mg/L	1	0.0100
Total Mercury		<0.000200		mg/L	1	0.000200
Total Lead		<0.0100		mg/L	1	0.0100
Total Selenium		<0.0500		mg/L	1	0.0500

Sample: 24109 - MW-11

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[4]	0.0537	mg/L	1	0.100	54	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[5]	0.0243	mg/L	1	0.100	24	66.2 - 122

Sample: 24109 - MW-11

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200
Pyrene		<0.000200	mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.001	0.200
Chrysene		<0.000200	mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0485	mg/L	0.001	80.0	61	21 - 145
2-Fluorobiphenyl		0.0527	mg/L	0.001	80.0	66	25 - 145
Terphenyl-d14		0.0390	mg/L	0.001	80.0	49	26 - 127

Sample: 24109 - MW-11

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6624	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5893	Date Prepared:	2003-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		0.102	mg/L	1	0.100
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		0.0150	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200

continued ...

[4]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[5]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

sample 24109 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Lead		<0.0100		mg/L	1	0.0100
Total Selenium		<0.0500		mg/L	1	0.0500

Sample: 24110 - MW-13

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[6]	0.0650	mg/L	1	0.100	65	66.2 - 122

Sample: 24110 - MW-13

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000200		mg/L	0.001	0.200
Acenaphthylene		<0.000200		mg/L	0.001	0.200
Acenaphthene		<0.000200		mg/L	0.001	0.200
Fluorene		<0.000200		mg/L	0.001	0.200
Phenanthrene		<0.000200		mg/L	0.001	0.200
Anthracene		<0.000200		mg/L	0.001	0.200
Fluoranthene		<0.000200		mg/L	0.001	0.200
Pyrene		<0.000200		mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200		mg/L	0.001	0.200
Chrysene		<0.000200		mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200		mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200		mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200		mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200		mg/L	0.001	0.200

[6]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0397	mg/L	0.001	80.0	50	21 - 145
2-Fluorobiphenyl		0.0412	mg/L	0.001	80.0	52	25 - 145
Terphenyl-d14		0.0395	mg/L	0.001	80.0	49	26 - 127

Sample: 24110 - MW-13

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6624	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5893	Date Prepared:	2003-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		0.360	mg/L	1	0.100
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		0.0180	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0500	mg/L	1	0.0500

Sample: 24111 - MW-15

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	69.5 - 125
4-Bromofluorobenzene (4-BFB)		0.120	mg/L	1	0.100	120	66.2 - 122

Sample: 24111 - MW-15

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200

continued ...

sample 24111 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Acenaphthylene		<0.000200		mg/L	0.001	0.200
Acenaphthene		<0.000200		mg/L	0.001	0.200
Fluorene		<0.000200		mg/L	0.001	0.200
Phenanthrene		<0.000200		mg/L	0.001	0.200
Anthracene		<0.000200		mg/L	0.001	0.200
Fluoranthene		<0.000200		mg/L	0.001	0.200
Pyrene		<0.000200		mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200		mg/L	0.001	0.200
Chrysene		<0.000200		mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200		mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200		mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200		mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200		mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0449	mg/L	0.001	80.0	56	21 - 145
2-Fluorobiphenyl		0.0238	mg/L	0.001	80.0	30	25 - 145
Terphenyl-d14		0.0512	mg/L	0.001	80.0	64	26 - 127

Sample: 24111 - MW-15

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6626	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5903	Date Prepared:	2003-12-30	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0125		mg/L	1	0.0125
Total Arsenic		<0.0100		mg/L	1	0.0100
Total Barium		0.108		mg/L	1	0.100
Total Cadmium		<0.00500		mg/L	1	0.00500
Total Chromium		0.0140		mg/L	1	0.0100
Total Mercury		<0.000200		mg/L	1	0.000200
Total Lead		<0.0100		mg/L	1	0.0100
Total Selenium		<0.0500		mg/L	1	0.0500

Sample: 24112 - MW-16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100

continued ...

sample 24112 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[7]	0.0590	mg/L	1	0.100	59	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[8]	0.0137	mg/L	1	0.100	14	66.2 - 122

Sample: 24112 - MW-16

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200
Pyrene		<0.000200	mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.001	0.200
Chrysene		<0.000200	mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0537	mg/L	0.001	80.0	67	21 - 145
2-Fluorobiphenyl		0.0593	mg/L	0.001	80.0	74	25 - 145
Terphenyl-d14		0.0659	mg/L	0.001	80.0	82	26 - 127

Sample: 24112 - MW-16

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6626	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5903	Date Prepared:	2003-12-30	Prepared By:	TP

[7]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[8]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Silver		<0.0125		mg/L	1	0.0125
Total Arsenic		<0.0100		mg/L	1	0.0100
Total Barium		<0.100		mg/L	1	0.100
Total Cadmium		<0.00500		mg/L	1	0.00500
Total Chromium		<0.0100		mg/L	1	0.0100
Total Mercury		0.000510		mg/L	1	0.000200
Total Lead		<0.0100		mg/L	1	0.0100
Total Selenium		<0.0500		mg/L	1	0.0500

Sample: 24113 - MW-17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene (isomers)		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[9]	0.0593	mg/L	1	0.100	59	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[10]	0.0131	mg/L	1	0.100	13	66.2 - 122

Sample: 24113 - MW-17

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000200		mg/L	0.001	0.200
Acenaphthylene		<0.000200		mg/L	0.001	0.200
Acenaphthene		<0.000200		mg/L	0.001	0.200
Fluorene		<0.000200		mg/L	0.001	0.200
Phenanthrene		<0.000200		mg/L	0.001	0.200
Anthracene		<0.000200		mg/L	0.001	0.200
Fluoranthene		<0.000200		mg/L	0.001	0.200
Pyrene		0.000200		mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200		mg/L	0.001	0.200
Chrysene		<0.000200		mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200		mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200		mg/L	0.001	0.200

continued ...

[9]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[10]Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

sample 24113 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0611	mg/L	0.001	80.0	76	21 - 145
2-Fluorobiphenyl		0.0627	mg/L	0.001	80.0	78	25 - 145
Terphenyl-d14		0.0606	mg/L	0.001	80.0	76	26 - 127

Sample: 24113 - MW-17

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6626	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5903	Date Prepared:	2003-12-30	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		<0.100	mg/L	1	0.100
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		<0.0100	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0500	mg/L	1	0.0500

Sample: 24114 - MW-21

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6598	Date Analyzed:	2003-12-29	Analyzed By:	MT
Prep Batch:	5905	Date Prepared:	2003-12-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[11]	0.0618	mg/L	1	0.100	62	69.5 - 125
4-Bromofluorobenzene (4-BFB)	[12]	0.0190	mg/L	1	0.100	19	66.2 - 122

[11] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
[12] Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

Sample: 24114 - MW-21

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6656	Date Analyzed:	2003-12-30	Analyzed By:	RC
Prep Batch:	5880	Date Prepared:	2003-12-29	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200
Pyrene		<0.000200	mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.001	0.200
Chrysene		<0.000200	mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0471	mg/L	0.001	80.0	59	21 - 145
2-Fluorobiphenyl		0.0505	mg/L	0.001	80.0	63	25 - 145
Terphenyl-d14		0.0499	mg/L	0.001	80.0	62	26 - 127

Sample: 24114 - MW-21

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6626	Date Analyzed:	2004-01-02	Analyzed By:	RR
Prep Batch:	5903	Date Prepared:	2003-12-30	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		<0.100	mg/L	1	0.100
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		<0.0100	mg/L	1	0.0100
Total Mercury		0.00135	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0500	mg/L	1	0.0500

Method Blank (1) QC Batch: 6598

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0811	mg/L	1	0.100	81	61 - 127
4-Bromofluorobenzene (4-BFB)	[13]	0.0204	mg/L	1	0.100	20	72.6 - 130

Method Blank (1) QC Batch: 6624

Parameter	Flag	Result	Units	RL
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.01
Total Barium		<0.100	mg/L	0.1
Total Cadmium		<0.00500	mg/L	0.005
Total Chromium		<0.0100	mg/L	0.01
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0500	mg/L	0.05

Method Blank (1) QC Batch: 6626

Parameter	Flag	Result	Units	RL
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.01
Total Barium		<0.100	mg/L	0.1
Total Cadmium		<0.00500	mg/L	0.005
Total Chromium		<0.0100	mg/L	0.01
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0500	mg/L	0.05

Method Blank (1) QC Batch: 6656

Parameter	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.2
Acenaphthylene		<0.000200	mg/L	0.2
Acenaphthene		<0.000200	mg/L	0.2
Fluorene		<0.000200	mg/L	0.2
Phenanthrene		<0.000200	mg/L	0.2
Anthracene		<0.000200	mg/L	0.2
Fluoranthene		<0.000200	mg/L	0.2
Pyrene		<0.000200	mg/L	0.2

continued ...

[13] Low surrogate recovery due to prep. ICV, CCV show the method to be in control.

method blank continued ...

Parameter	Flag	Result	Units	RL
Benzo(a)anthracene		<0.000200	mg/L	0.2
Chrysene		<0.000200	mg/L	0.2
Benzo(b)fluoranthene		<0.000200	mg/L	0.2
Benzo(k)fluoranthene		<0.000200	mg/L	0.2
Benzo(a)pyrene		<0.000200	mg/L	0.2
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.2
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.2
Benzo(g,h,i)perylene		<0.000200	mg/L	0.2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0581	mg/L	0.001	80.0	73	21 - 145
2-Fluorobiphenyl		0.0624	mg/L	0.001	80.0	78	25 - 145
Terphenyl-d14		0.0685	mg/L	0.001	80.0	86	26 - 127

Method Blank (1) QC Batch: 6712

Parameter	Flag	Result	Units	RL
Total Mercury		<0.000200	mg/L	0.0002

Laboratory Control Spike (LCS-1) QC Batch: 6598

Param		LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene		0.0848	0.0820	mg/L	1	0.100	<0.000350	85	3	81.2 - 118	20
Toluene	[14]	0.0841	0.0793	mg/L	1	0.100	<0.000550	84	6	81.2 - 118	20
Ethylbenzene	[15]	0.0811	0.0748	mg/L	1	0.100	<0.000690	81	8	80.7 - 122	20
Xylene (isomers)	[1617]	0.236	0.220	mg/L	1	0.300	<0.000610	79	7	79.8 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0898	0.0847	mg/L	1	0.100	90	85	69.5 - 125
4-Bromofluorobenzene (4-BFB)	0.0777	0.0704	mg/L	1	0.100	78	70	66.2 - 129

Laboratory Control Spike (LCS-1) QC Batch: 6624

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.134	0.135	mg/L	1	0.125	<0.000199	107	1	85 - 115	20
Total Arsenic	0.534	0.528	mg/L	1	0.500	<0.00860	107	1	85 - 115	20

continued ...

[14] Recovery outside normal limits. Other recoveries, LCS, show the method to be in control.
[15] Recovery outside normal limits. Other recoveries, LCS, show the method to be in control.
[16] Low analyte recovery due to prep. Other recoveries, ICV, CCV show the method to be in control.
[17] Recovery outside normal limits. Other recoveries, LCS, show the method to be in control.

control spikes continued ...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Barium	1.08	1.08	mg/L	1	1.00	<0.000984	108	0	85 - 115	20
Total Cadmium	0.265	0.267	mg/L	1	0.250	<0.000577	106	1	85 - 115	20
Total Chromium	0.113	0.113	mg/L	1	0.100	<0.000437	113	0	85 - 115	20
Total Lead	0.540	0.540	mg/L	1	0.500	<0.00310	108	0	85 - 115	20
Total Selenium	0.437	0.489	mg/L	1	0.500	<0.00370	87	11	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6626

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.124	0.123	mg/L	1	0.125	<0.000199	99	1	85 - 115	20
Total Arsenic	0.459	0.467	mg/L	1	0.500	<0.00860	92	2	85 - 115	20
Total Barium	0.971	0.878	mg/L	1	1.00	<0.000984	97	10	85 - 115	20
Total Cadmium	0.224	0.226	mg/L	1	0.250	<0.000577	90	1	85 - 115	20
Total Chromium	0.0980	0.0990	mg/L	1	0.100	<0.000437	98	1	85 - 115	20
Total Lead	0.427	0.430	mg/L	1	0.500	<0.00310	85	1	85 - 115	20
Total Selenium	0.428	0.432	mg/L	1	0.500	<0.00370	86	1	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6656

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Naphthalene	48.6	49.0	mg/L	1	80.0	<0.0445	61	1	21.4 - 134	20
Acenaphthylene	65.0	65.6	mg/L	1	80.0	<0.0383	81	1	42.1 - 135	20
Acenaphthene	62.0	62.2	mg/L	1	80.0	<0.0421	78	0	41 - 133	20
Fluorene	58.6	58.2	mg/L	1	80.0	<0.0655	73	1	49.3 - 133	20
Phenanthrene	61.4	61.4	mg/L	1	80.0	<0.0383	77	0	54.4 - 135	20
Anthracene	62.6	62.7	mg/L	1	80.0	<0.0468	78	0	42.2 - 130	20
Fluoranthene	63.3	62.9	mg/L	1	80.0	<0.0550	79	1	44.4 - 146	20
Pyrene	83.1	85.5	mg/L	1	80.0	<0.0904	104	3	52.8 - 137	20
Benzo(a)anthracene	66.6	68.0	mg/L	1	80.0	<0.0993	83	2	59 - 134	20
Chrysene	81.8	83.6	mg/L	1	80.0	<0.121	102	2	49.6 - 107	20
Benzo(b)fluoranthene	56.9	58.5	mg/L	1	80.0	<0.171	71	3	43.2 - 134	20
Benzo(k)fluoranthene	66.6	68.2	mg/L	1	80.0	<0.0951	83	2	55.2 - 145	20
Benzo(a)pyrene	65.2	67.4	mg/L	1	80.0	<0.135	82	3	63.9 - 138	20
Indeno(1,2,3-cd)pyrene	60.2	63.6	mg/L	1	80.0	<0.176	75	5	64.6 - 145	20
Dibenzo(a,h)anthracene	48.6	51.8	mg/L	1	80.0	<0.184	61	6	48.6 - 142	20
Benzo(g,h,i)perylene	61.9	67.0	mg/L	1	80.0	<0.134	77	8	71.5 - 146	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	53.7	52.7	mg/L	1	80.0	67	66	20 - 146
2-Fluorobiphenyl	59.4	59.9	mg/L	1	80.0	74	75	25.3 - 146
Terphenyl-d14	74.6	76.4	mg/L	1	80.0	93	96	26 - 127

Laboratory Control Spike (LCS-1) QC Batch: 6712

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.00100	0.00100	mg/L	1	0.00100	<0.0000360	100	0	82 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6624

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.126	0.127	mg/L	1	0.125	<0.000199	101	1	75 - 125	20
Total Arsenic	0.552	0.508	mg/L	1	0.500	<0.00860	110	8	75 - 125	20
Total Barium	1.08	1.09	mg/L	1	1.00	<0.000984	108	1	75 - 125	20
Total Cadmium	0.266	0.263	mg/L	1	0.250	<0.000577	106	1	75 - 125	20
Total Chromium	0.107	0.106	mg/L	1	0.100	<0.000437	107	1	75 - 125	20
Total Lead	0.509	0.513	mg/L	1	0.500	<0.00310	102	1	75 - 125	20
Total Selenium	0.509	0.480	mg/L	1	0.500	<0.00370	102	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6626

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.122	0.120	mg/L	1	0.125	<0.000199	98	2	75 - 125	20
Total Arsenic	0.449	0.446	mg/L	1	0.500	<0.00860	90	1	75 - 125	20
Total Barium	0.981	0.965	mg/L	1	1.00	<0.000984	98	2	75 - 125	20
Total Cadmium	0.233	0.230	mg/L	1	0.250	<0.000577	93	1	75 - 125	20
Total Chromium	0.0950	0.0980	mg/L	1	0.100	<0.000437	95	3	75 - 125	20
Total Lead	0.498	0.496	mg/L	1	0.500	<0.00310	100	0	75 - 125	20
Total Selenium	0.434	0.424	mg/L	1	0.500	<0.00370	87	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6712

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury [18]	0.000870	0.000160	mg/L	1	0.00100	<0.0000360	87	138	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 6598

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0861	86	85 - 115	2003-12-29

continued ...

[18] ms recovery out of limits due to matrix effect/spiking error

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene	[19]	mg/L	0.100	0.0838	84	85 - 115	2003-12-29
Ethylbenzene	[20]	mg/L	0.100	0.0796	80	85 - 115	2003-12-29
Xylene (isomers)	[21]	mg/L	0.300	0.236	79	85 - 115	2003-12-29

Standard (CCV-1) QC Batch: 6598

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2003-12-29
Toluene		mg/L	0.100	0.104	104	85 - 115	2003-12-29
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2003-12-29
Xylene (isomers)		mg/L	0.300	0.323	108	85 - 115	2003-12-29

Standard (CCV-2) QC Batch: 6598

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2003-12-29
Toluene		mg/L	0.100	0.101	101	85 - 115	2003-12-29
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2003-12-29
Xylene (isomers)		mg/L	0.300	0.299	100	85 - 115	2003-12-29

Standard (ICV-1) QC Batch: 6624

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.119	95	90 - 110	2004-01-02
Total Arsenic		mg/L	1.00	0.979	98	90 - 110	2004-01-02
Total Barium		mg/L	1.00	0.971	97	90 - 110	2004-01-02
Total Cadmium		mg/L	1.00	0.976	98	90 - 110	2004-01-02
Total Chromium		mg/L	1.00	0.971	97	90 - 110	2004-01-02
Total Lead		mg/L	1.00	0.980	98	90 - 110	2004-01-02
Total Selenium		mg/L	1.00	0.973	97	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6624

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.131	105	90 - 110	2004-01-02
Total Arsenic		mg/L	1.00	0.982	98	90 - 110	2004-01-02

continued ...

[19] Average of ICV, CCV components within acceptable range.
[20] Average of ICV, CCV components within acceptable range.
[21] Average of ICV, CCV components within acceptable range.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		mg/L	1.00	1.06	106	90 - 110	2004-01-02
Total Cadmium		mg/L	1.00	1.03	103	90 - 110	2004-01-02
Total Chromium		mg/L	1.00	1.06	106	90 - 110	2004-01-02
Total Lead		mg/L	1.00	1.02	102	90 - 110	2004-01-02
Total Selenium		mg/L	1.00	0.986	99	90 - 110	2004-01-02

Standard (ICV-1) QC Batch: 6626

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.119	95	90 - 110	2004-01-02
Total Arsenic		mg/L	1.00	0.979	98	90 - 110	2004-01-02
Total Barium		mg/L	1.00	0.971	97	90 - 110	2004-01-02
Total Cadmium		mg/L	1.00	0.976	98	90 - 110	2004-01-02
Total Chromium		mg/L	1.00	0.971	97	90 - 110	2004-01-02
Total Lead		mg/L	1.00	0.980	98	90 - 110	2004-01-02
Total Selenium		mg/L	1.00	0.973	97	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6626

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.127	102	90 - 110	2004-01-02
Total Arsenic		mg/L	1.00	1.07	107	90 - 110	2004-01-02
Total Barium		mg/L	1.00	1.04	104	90 - 110	2004-01-02
Total Cadmium		mg/L	1.00	1.06	106	90 - 110	2004-01-02
Total Chromium		mg/L	1.00	1.03	103	90 - 110	2004-01-02
Total Lead		mg/L	1.00	1.08	108	90 - 110	2004-01-02
Total Selenium		mg/L	1.00	1.08	108	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6656

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.6	98	80 - 120	2003-12-30
Acenaphthylene		mg/L	60.0	54.6	91	80 - 120	2003-12-30
Acenaphthene		mg/L	60.0	52.8	88	80 - 120	2003-12-30
Fluorene		mg/L	60.0	49.2	82	80 - 120	2003-12-30
Phenanthrene		mg/L	60.0	65.2	109	80 - 120	2003-12-30
Anthracene		mg/L	60.0	64.7	108	80 - 120	2003-12-30
Fluoranthene		mg/L	60.0	60.7	101	80 - 120	2003-12-30
Pyrene		mg/L	60.0	59.3	99	80 - 120	2003-12-30
Benzo(a)anthracene		mg/L	60.0	52.3	87	80 - 120	2003-12-30
Chrysene		mg/L	60.0	60.5	101	80 - 120	2003-12-30
Benzo(b)fluoranthene		mg/L	60.0	67.0	112	80 - 120	2003-12-30

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(k)fluoranthene		mg/L	60.0	62.4	104	80 - 120	2003-12-30
Benzo(a)pyrene		mg/L	60.0	62.1	104	80 - 120	2003-12-30
Indeno(1,2,3-cd)pyrene		mg/L	60.0	58.6	98	80 - 120	2003-12-30
Dibenzo(a,h)anthracene		mg/L	60.0	51.0	85	80 - 120	2003-12-30
Benzo(g,h,i)perylene		mg/L	60.0	58.2	97	80 - 120	2003-12-30

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		72.1	mg/L	1	60.0	120	80 - 120
2-Fluorobiphenyl		66.7	mg/L	1	60.0	111	80 - 120
Terphenyl-d14		68.3	mg/L	1	60.0	114	80 - 120

Standard (ICV-1) QC Batch: 6712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.00103	103	80 - 120	2004-01-07

Standard (CCV-1) QC Batch: 6712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000960	96	80 - 120	2004-01-07

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SHELL OIL PRODUCTS US / MOTIVA Chain of Custody Record

Shell Project Manager to be Invoiced:
☐ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ HOUSTON
Name: Ken Springer
Address: 777 Walker ST TSP 1206
City/Street: Houston TX Zip: 77002
Telephone: 713-241-9439 Email:

INCIDENT NUMBER (S&E ONLY): 3 0 0 1 4 3
SAP or CRMT NUMBER (TS/CRMT): [redacted]

LAB ORDER ID: 3122901
LAB USE ONLY:
PAGE: ____ of ____

CONSULTANT COMPANY: H2A Environmental
ADDRESS: 11999 Katy Freeway Ste 320
CITY: Houston TX 77043
TELEPHONE: 713 647 8367 FAX: 713 984 2064 EMAIL:

SITE NAME/ADDRESS (Street and City): Jal Station / Jal NM
PROJECT CONTACT (Report to): Monica Sleutz
CONSULTANT PROJECT NO.: 106.001
SAMPLER NAME(S) (Print): John Savoie

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per BORING ____ ALL ____

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TPH TX1005 Extended	PAH 8270C	[illegible]	[illegible]	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Total Mercury 7470	Turn Around Time if different from standard	Hold
24107	mw-1	5	[illegible]	X				X	X			X		12-23	0800		X			X	X											X		
08	mw-5	↓	[illegible]	↓				↓	↓			↓		12-23	0900		↓			↓	↓											↓		
09	mw-11	↓	↓	↓				↓	↓			↓		12-23	1000		↓			↓	↓											↓		
10	mw-13	↓	↓	↓				↓	↓			↓		12-23-03	1200		↓			↓	↓											↓		
11	mw-15	↓	↓	↓				↓	↓			↓		12-23-03	1100		↓			↓	↓											↓		
12	mw-16	↓	↓	↓				↓	↓			↓		12-22-03	1000		↓			↓	↓											↓		
13	mw-17	↓	↓	↓				↓	↓			↓		12-22-03	0900		↓			↓	↓											↓		
14	mw-21	↓	↓	↓				↓	↓			↓		12-22-03	0800		↓			↓	↓											↓		

Relinquished by: [signature] Date: 12-28-03 Time: 1200
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Dinaz Date: 12-29-03 Time: 9:51

LAB USE ONLY
Intact (Y)/N
Headspace Y/(N)
Temp 3°C
Log-In Review NA

REMARKS:
☐ Check If Dry Weight Reporting is Required
☐ Check If Special Reporting Limits Are Needed
☐ Check If TRRP Reports Are Required

Carrier # Fed Ex 8418 6026 3021

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 11, 2003

Order ID Number: A03020320

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
Project Address:
H2A Environmental LTD / Portland / Theresa Nix

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220380	Effluent	Water	1/30/03	12:00	2/3/03

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	BTEX				
Sample - Field Code	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
220380 - Effluent	<0.005	<0.005	<0.005	<0.005	<0.005

This is only a summary. Please, refer to the complete report package for quality control data.

Summary Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 10, 2003

Order ID Number: A03020320

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
Project Address:
H2A Environmental LTD / Portland / Theresa Nix

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220381	LRP-1	Air	1/30/03	12:10	2/3/03
220382	LRP-2	Air	1/30/03	12:20	2/3/03

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 220381 - LRP-1

Param	Flag	Result	Units
TVHC		4220	mg/m3

Sample: 220382 - LRP-2

Param	Flag	Result	Units
TVHC		585	mg/m3

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 10, 2003

Order ID Number: A03020320

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
H2A Environmental LTD / Portland / Theresa Nix

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220381	LRP-1	Air	1/30/03	12:10	2/3/03
220382	LRP-2	Air	1/30/03	12:20	2/3/03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.
The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 220381 - LRP-1

Analysis:	TVHC	Analytical Method:	8015	QC Batch:	QC26980	Date Analyzed:	2/7/03
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB24831	Date Prepared:	2/7/03

Param	Flag	Result	Units	Dilution	RDL
TVHC		4220	mg/m3	1000	0.10

Sample: 220382 - LRP-2

Analysis:	TVHC	Analytical Method:	8015	QC Batch:	QC26980	Date Analyzed:	2/7/03
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB24831	Date Prepared:	2/7/03

Param	Flag	Result	Units	Dilution	RDL
TVHC		585	mg/m3	1000	0.10

Quality Control Report
Method Blank

Method Blank

QCBatch: QC26980

Param	Flag	Results	Units	Reporting Limit
TVHC		<0.1	mg/m3	0.10

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC26980

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
TVHC	0.854	0.847	mg/m3	1	1	<0.1	85	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC26980

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/m3	1	0.892	89	70 - 130	2/7/03

ICV (1)

QCBatch: QC26980

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/m3	1	0.975	97	70 - 130	2/7/03

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 11, 2003

Order ID Number: A03020320

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
H2A Environmental LTD / Portland / Theresa Nix

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220380	Effluent	Water	1/30/03	12:00	2/3/03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.
Note: the RDL is equal to MQL for all organic analytes including TPH.
The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 220380 - Effluent

Analysis:	BTEX	Analytical Method:	E 602	QC Batch:	QC26882	Date Analyzed:	2/5/03
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB24753	Date Prepared:	2/5/03

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.092	mg/L	5	0.10	92	70 - 130
4-BFB	[1]	0.0676	mg/L	5	0.10	67	70 - 130

[1]Low surrogate recovery due to matrix interference. Sample run two times. ICV, CCV show the method to be in control.

Quality Control Report
Method Blank

Method Blank

QCBatch: QC26882

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0998	mg/L	1	0.10	100	70 - 130
4-BFB	[2]	0.0652	mg/L	1	0.10	65	70 - 130

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC26882

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0926	0.0984	mg/L	1	0.10	<0.001	93	6	70 - 130	20
Benzene	0.0937	0.0964	mg/L	1	0.10	<0.001	94	3	70 - 130	20
Toluene	0.096	0.0977	mg/L	1	0.10	<0.001	96	2	70 - 130	20
Ethylbenzene	0.0951	0.097	mg/L	1	0.10	<0.001	95	2	70 - 130	20
M,P,O-Xylene	0.285	0.290	mg/L	1	0.30	<0.001	95	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0982	0.100	mg/L	1	0.10	98	100	70 - 130
4-BFB	0.0956	0.0975	mg/L	1	0.10	96	98	70 - 130

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC26882

[2]Low surrogate recovery due to prep. ICV, CCV shoow the method to be in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0904	90	85 - 115	2/5/03
Benzene		mg/L	0.10	0.0917	92	85 - 115	2/5/03
Toluene		mg/L	0.10	0.0942	94	85 - 115	2/5/03
Ethylbenzene		mg/L	0.10	0.0932	93	85 - 115	2/5/03
M,P,O-Xylene		mg/L	0.30	0.281	94	85 - 115	2/5/03

CCV (2)

QCBatch: QC26882

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.094	94	85 - 115	2/5/03
Benzene		mg/L	0.10	0.099	99	85 - 115	2/5/03
Toluene		mg/L	0.10	0.096	96	85 - 115	2/5/03
Ethylbenzene		mg/L	0.10	0.095	95	85 - 115	2/5/03
M,P,O-Xylene		mg/L	0.30	0.286	95	85 - 115	2/5/03

ICV (1)

QCBatch: QC26882

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.096	96	85 - 115	2/5/03
Benzene		mg/L	0.10	0.0961	96	85 - 115	2/5/03
Toluene		mg/L	0.10	0.0976	98	85 - 115	2/5/03
Ethylbenzene		mg/L	0.10	0.0982	98	85 - 115	2/5/03
M,P,O-Xylene		mg/L	0.30	0.295	98	85 - 115	2/5/03

Page ___ of ___

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TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A030203 20

Company Name: H2A Environmental | Phone #: 361-777-0860

Address: (Street, City, Zip) 418 San Saba Portland TX 78374 | Fax #: 361-777-0971

Contact Person: Jena Henry Equilon LLC CRMT P.O. Box 2648

Invoice to: (If different from above) Houston TX 77252 | Phone 713-241-0236 | Fax 713-214-4119

Project #: 106.001 | Project Name: Jal Station

Project Location: Jal NM | Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
20380	Effluent	2	2(40)	X				X				X		1-30	1200
81	LRP 1	1	1L			X						X		1-30	1210
82	LRP 2	1	1L			X						X		1-30	1220

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO GRO					Turn Around Time if different from standard	Hold
	X														X						
															X						
															X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	1-31	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				1-23-03	10:00

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 14° C

Log-in Review AL

REMARKS:

2 11 Flp

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 819228 918071

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 28, 2003

Order ID Number: A03022503

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
Project Address:
H2A Environmental LTD / Portland / Theresa Nix

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222209	Effluent	Water	2/24/03	12:00	2/25/03

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	BTEX				
Sample - Field Code	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
222209 - Effluent	<0.005	<0.005	<0.005	<0.005	<0.005

This is only a summary. Please, refer to the complete report package for quality control data.

Summary Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 27, 2003

Order ID Number: A03022503

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
Project Address:
H2A Environmental LTD / Portland / Theresa Nix

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222210	LRP 1	Air	2/24/03	12:10	2/25/03
222211	LRP 2	Air	2/24/03	12:20	2/25/03

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 222210 - LRP 1

Param	Flag	Result	Units
TVHC		836	mg/m3

Sample: 222211 - LRP 2

Param	Flag	Result	Units
TVHC		704	mg/m3

This is only a summary. Please, refer to the complete report package for quality control data.

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 28, 2003

Order ID Number: A03022503

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
H2A Environmental LTD / Portland / Theresa Nix

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222209	Effluent	Water	2/24/03	12:00	2/25/03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.
The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

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Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 222209 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC27401	Date Analyzed:	2/25/03
Analyst:	CG	Preparation Method:	S 5030B	Prep Batch:	PB25166	Date Prepared:	2/25/03

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.091	mg/L	5	0.10	91	70 - 130
4-BFB		0.086	mg/L	5	0.10	86	70 - 130

Quality Control Report
Method Blank

Method Blank

QCBatch: QC27401

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0908	mg/L	1	0.10	91	70 - 130
4-BFB		0.0894	mg/L	1	0.10	89	70 - 130

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC27401

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0962	0.0956	mg/L	1	0.10	<0.001	96	1	70 - 130	20
Benzene	0.0987	0.0979	mg/L	1	0.10	<0.001	99	1	70 - 130	20
Toluene	0.099	0.0993	mg/L	1	0.10	<0.001	99	0	70 - 130	20
Ethylbenzene	0.0994	0.0997	mg/L	1	0.10	<0.001	99	0	70 - 130	20
M,P,O-Xylene	0.300	0.302	mg/L	1	0.30	<0.001	100	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0895	0.0947	mg/L	1	0.10	90	95	70 - 130
4-BFB	0.0929	0.0965	mg/L	1	0.10	93	96	70 - 130

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC27401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0984	98	85 - 115	2/25/03

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.0979	98	85 - 115	2/25/03
Toluene		mg/L	0.10	0.0973	97	85 - 115	2/25/03
Ethylbenzene		mg/L	0.10	0.0979	98	85 - 115	2/25/03
M,P,O-Xylene		mg/L	0.30	0.296	99	85 - 115	2/25/03

CCV (2)

QCBatch: QC27401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE	[1]	mg/L	0.10	0.083	83	85 - 115	2/25/03
Benzene		mg/L	0.10	0.094	94	85 - 115	2/25/03
Toluene		mg/L	0.10	0.094	94	85 - 115	2/25/03
Ethylbenzene		mg/L	0.10	0.093	93	85 - 115	2/25/03
M,P,O-Xylene		mg/L	0.30	0.281	93	85 - 115	2/25/03

ICV (1)

QCBatch: QC27401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0896	90	85 - 115	2/25/03
Benzene		mg/L	0.10	0.0956	96	85 - 115	2/25/03
Toluene		mg/L	0.10	0.0954	95	85 - 115	2/25/03
Ethylbenzene		mg/L	0.10	0.0942	94	85 - 115	2/25/03
M,P,O-Xylene		mg/L	0.30	0.286	95	85 - 115	2/25/03

[1] MTBE outside normal limits. Average of CCV components within acceptable range.

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva-Jena Henry
P.O. Box 2648
Houston, Tx. 77252

Report Date: February 27, 2003

Order ID Number: A03022503

Project: 106.001
TA Job Code: Jal Station
Casualty Code: 106.001
Project Location: Jal,NM
H2A Environmental LTD / Portland / Theresa Nix

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222210	LRP 1	Air	2/24/03	12:10	2/25/03
222211	LRP 2	Air	2/24/03	12:20	2/25/03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.
The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 222210 - LRP 1

Analysis:	TVHC	Analytical Method:	8015	QC Batch:	QC27430	Date Analyzed:	2/26/03
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB25188	Date Prepared:	2/26/03

Param	Flag	Result	Units	Dilution	RDL
TVHC		836	mg/m3	1000	0.10

Sample: 222211 - LRP 2

Analysis:	TVHC	Analytical Method:	8015	QC Batch:	QC27430	Date Analyzed:	2/26/03
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB25188	Date Prepared:	2/26/03

Param	Flag	Result	Units	Dilution	RDL
TVHC		704	mg/m3	1000	0.10

Quality Control Report
Method Blank

Method Blank

QCBatch: QC27430

Param	Flag	Results	Units	Reporting Limit
TVHC		<0.1	mg/m3	0.10

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC27430

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
TVHC	0.943	0.936	mg/m3	1	1	<0.1	94	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC27430

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/m3	1	1.05	105	70 - 130	2/26/03

ICV (1)

QCBatch: QC27430

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/m3	1	0.942	94	70 - 130	2/26/03

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TraceAnalysis, Inc.

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El Paso, Texas 79932
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1-(888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0302503

Company Name: #24 Environmental
Phone #: 361-777-0860
Address: (Street, City, Zip) 418 San Saba Portland TX 78374
Fax #: 361-777-0471
Contact Person: Dona Henry Equilon LLC CRMT P.O. Box 2648 Houston, TX 77252
Invoice to: (If different from above) Phone 713-241-0236 Fax 713-214-4119
Project #: 106-001
Project Name: Jal Station
Project Location: Jal NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO					Turn Around Time if different from standard	Hold
222209	Effluent	2	2(1L)	X				X				X		2-24	1200		X																				
10	LRP2	1	1L			X						X		2-24	1210																X						
11	LRP2	1	1L			X						X		2-24	1220																X						

Relinquished by: Date: Time:
2-24-03 1500
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: 2-25-03 10:00 Date: Time:

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 3° °
Log-in Review MK

REMARKS:
RT F 2/28/03

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 819228918130

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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Summary Report

Jena Henry
Equiva Jena Henry
P.O. Box 2648
Houston, TX 77252

Report Date: May 5, 2003

Work Order: 3043010

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
6424	Effluent	water	2003-04-29	10:00	2003-04-30

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
6424 - Effluent	<0.00500	<0.00500	<0.00500	<0.00500

Summary Report

Thresa Nix
H2A Environmental
418 San Saba
Portland, TX 78374

Report Date: May 5, 2003

Work Order: 3043010

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
6425	LRP 1	air	2003-04-29	10:10	2003-04-30
6426	LRP 2	air	2003-04-29	10:20	2003-04-30

Sample: 6425 - LRP 1

Param	Flag	Result	Units	RL
TVHC		360	mg/m3	0.100

Sample: 6426 - LRP 2

Param	Flag	Result	Units	RL
TVHC		1120	mg/m3	0.100

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva Jena Henry
P.O. Box 2648
Houston, TX 77252

Report Date: May 5, 2003

Work Order: 3043010

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
6424	Effluent	water	2003-04-29	10:00	2003-04-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 6424 - Effluent

Analysis:	BTEX	Analytical Method:	E 602	Prep Method:	N/A
QC Batch:	1350	Date Analyzed:	2003-04-30	Analyzed By:	DK
Prep Batch:	1208	Date Prepared:	2003-04-30	Prepared By:	DK

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00500	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene (isomers)		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.449	mg/L	5	0.100	90	71 - 118
4-Bromofluorobenzene (4-BFB)		0.468	mg/L	5	0.100	94	39.4 - 109

Method Blank (1) QC Batch: 1350

Parameter	Flag	Result	Units	MDL
Benzene		<0.000350	mg/L	0.00035
Toluene		<0.000550	mg/L	0.00055
Ethylbenzene		<0.000690	mg/L	0.00069
Xylene (isomers)		<0.00183	mg/L	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0988	mg/L	1	0.100	99	61 - 127
4-Bromofluorobenzene (4-BFB)		0.097	mg/L	1	0.100	97	72.6 - 130

Laboratory Control Spike (LCS-1) QC Batch: 1350

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0939	0.0989	mg/L	1	0.100	<0.000350	94	5	77.7 - 115	20
Benzene	0.0939	0.0989	mg/L	1	0.100	<0.000350	94	5	77.7 - 115	20
Toluene	0.0932	0.0976	mg/L	1	0.100	<0.000550	93	5	76.5 - 114	20
Toluene	0.0932	0.0976	mg/L	1	0.100	<0.000550	93	5	76.5 - 114	20
Ethylbenzene	0.0971	0.0995	mg/L	1	0.100	<0.000690	97	2	78.7 - 112	20
Ethylbenzene	0.0971	0.0995	mg/L	1	0.100	<0.000690	97	2	78.7 - 112	20
Xylene (isomers)	0.292	0.299	mg/L	1	0.300	<0.00183	97	2	66.3 - 123	20
Xylene (isomers)	0.292	0.299	mg/L	1	0.300	<0.00183	97	2	66.3 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0943	0.0964	mg/L	1	0.100	94	96	61 - 127
Trifluorotoluene (TFT)	0.0943	0.0964	mg/L	1	0.100	94	96	61 - 127

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.105	0.105	mg/L	1	0.100	105	105	72.6 - 130
4-Bromofluorobenzene (4-BFB)	0.105	0.105	mg/L	1	0.100	105	105	72.6 - 130

Standard (CCV-1) QC Batch: 1350

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2003-04-30
Toluene		mg/L	0.100	0.109	109	85 - 115	2003-04-30
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2003-04-30
Xylene (isomers)		mg/L	0.300	0.318	106	85 - 115	2003-04-30

Standard (CCV-2) QC Batch: 1350

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2003-04-30
Toluene		mg/L	0.100	0.111	111	85 - 115	2003-04-30
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2003-04-30
Xylene (isomers)		mg/L	0.300	0.338	113	85 - 115	2003-04-30

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Equiva Jena Henry
P.O. Box 2648
Houston, TX 77252

Report Date: May 5, 2003

Work Order: 3043010

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
6425	LRP 1	air	2003-04-29	10:10	2003-04-30
6426	LRP 2	air	2003-04-29	10:20	2003-04-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 6425 - LRP 1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	1301	Date Analyzed:	2003-04-29	Analyzed By:	DK
Prep Batch:	1161	Date Prepared:	2003-04-29	Prepared By:	DK

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		360	mg/m3	1000	0.100

Sample: 6426 - LRP 2

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	1301	Date Analyzed:	2003-04-29	Analyzed By:	DK
Prep Batch:	1161	Date Prepared:	2003-04-29	Prepared By:	DK

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		1120	mg/m3	1000	0.100

Method Blank (1) QC Batch: 1301

Parameter	Flag	Result	Units	MDL
TVHC		<0.100	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 1301

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TVHC	0.984	1.12	mg/L	1	1.00	<0.100	98	13	78.1 - 124	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1) QC Batch: 1301

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.11	111	85 - 115	2003-04-29

Standard (CCV-2) QC Batch: 1301

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.10	110	85 - 115	2003-04-29

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 304301D

Company Name: H2A Environmental — Phone #: 361-777-0860

Address: (Street, City, Zip) 418 San Saba, Rockport TX 78377 — Fax #: 361-777-0975

Contact Person: Jane Henry Equilon LLC CRMT P.O. Box 2648 Houston TX 77252

Invoice to: (If different from above) Phone 713-241-0236 Fax 713-214-4115

Project #: 106.001 — Project Name: Jal Station

Project Location: Jal NM — Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
6824	Effluent	2	40	X				X				X		4-29	1000
25	LRP 1	1	1L			X						X		4-29	1010
26	LRP 2	1	1L			X						X		4-29	1020

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO						Turn Around Time if different from standard	Hold
	X																					
															X							
															X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	4-24-03	1500			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				4-30-03	1032

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 17C °

Log-in Review MK

REMARKS:

5/SFP

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 8192 2691 8120

Summary Report

Jena Henry
Shell Pipeline Co.
777 Walker Street
Houston, TX 77252

Report Date: June 5, 2003

Work Order: 3060212

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
8745	Effluent	water	2003-05-30	08:00	2003-06-02

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
8745 - Effluent	<0.00500	<0.00500	<0.00500	<0.00500

Summary Report

Jena Henry
Shell Pipeline Co.
777 Walker Street
Houston, TX 77252

Report Date: June 5, 2003

Work Order: 3060212

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
8746	LRP-1	air	2003-05-30	08:10	2003-06-02
8747	LRP-2	air	2003-05-30	08:15	2003-06-02

Sample: 8746 - LRP-1

Param	Flag	Result	Units	RL
TVHC		162	mg/m3	0.100

Sample: 8747 - LRP-2

Param	Flag	Result	Units	RL
TVHC		220	mg/m3	0.100

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Shell Pipeline Co.
777 Walker Street
Houston, TX 77252

Report Date: June 5, 2003

Work Order: 3060212

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
8746	LRP-1	air	2003-05-30	08:10	2003-06-02
8747	LRP-2	air	2003-05-30	08:15	2003-06-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 8746 - LRP-1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	2010	Date Analyzed:	2003-06-03	Analyzed By:	CG
Prep Batch:	1817	Date Prepared:	2003-06-03	Prepared By:	CG

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		162	mg/m3	1000	0.100

Sample: 8747 - LRP-2

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	2010	Date Analyzed:	2003-06-03	Analyzed By:	CG
Prep Batch:	1817	Date Prepared:	2003-06-03	Prepared By:	CG

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		220	mg/m3	1000	0.100

Method Blank (1) QC Batch: 2010

Parameter	Flag	Result	Units	MDL
TVHC		<0.100	mg/L	0.1

Standard (ICV-1) QC Batch: 2010

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.02	102	85 - 115	2003-06-03

Standard (CCV-1) QC Batch: 2010

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.11	111	85 - 115	2003-06-03

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jena Henry
Shell Pipeline Co.
777 Walker Street
Houston, TX 77252

Report Date: June 5, 2003

Work Order: 3060212

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
8745	Effluent	water	2003-05-30	08:00	2003-06-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 8745 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	1954	Date Analyzed:	2003-06-02	Analyzed By:	CG
Prep Batch:	1769	Date Prepared:	2003-06-02	Prepared By:	CG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00500	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene (isomers)		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.506	mg/L	5	0.100	101	61 - 127
4-Bromofluorobenzene (4-BFB)		0.499	mg/L	5	0.100	100	72.6 - 130

Method Blank (1) QC Batch: 1954

Parameter	Flag	Result	Units	MDL
Benzene		<0.000350	mg/L	0.00035
Toluene		<0.000550	mg/L	0.00055
Ethylbenzene		<0.000690	mg/L	0.00069
Xylene (isomers)		<0.00183	mg/L	0.00183

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0903	mg/L	1	0.100	90	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0848	mg/L	1	0.100	85	72.6 - 130

Laboratory Control Spike (LCS-1) QC Batch: 1954

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.109	0.110	mg/L	1	0.100	<0.000350	109	0	77.7 - 115	20
Benzene	0.109	0.110	mg/L	1	0.100	<0.000350	109	0	77.7 - 115	20
Toluene	0.110	0.111	mg/L	1	0.100	<0.000550	110	1	76.5 - 114	20
Toluene	0.110	0.111	mg/L	1	0.100	<0.000550	110	1	76.5 - 114	20
Ethylbenzene	0.110	0.112	mg/L	1	0.100	<0.000690	110	1	78.7 - 112	20
Ethylbenzene	0.110	0.112	mg/L	1	0.100	<0.000690	110	1	78.7 - 112	20
Xylene (isomers)	0.324	0.327	mg/L	1	0.300	<0.00183	108	1	66.3 - 123	20
Xylene (isomers)	0.324	0.327	mg/L	1	0.300	<0.00183	108	1	66.3 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0924	0.0999	mg/L	1	0.100	92	100	61 - 127
Trifluorotoluene (TFT)	0.0924	0.0999	mg/L	1	0.100	92	100	61 - 127

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.0925	0.0998	mg/L	1	0.100	92	100	72.6 - 130
4-Bromofluorobenzene (4-BFB)	0.0925	0.0998	mg/L	1	0.100	92	100	72.6 - 130

Standard (CCV-1) QC Batch: 1954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2003-06-02
Toluene		mg/L	0.100	0.109	109	85 - 115	2003-06-02
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2003-06-02
Xylene (isomers)		mg/L	0.300	0.320	107	85 - 115	2003-06-02

Standard (CCV-2) QC Batch: 1954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2003-06-02
Toluene	[1]	mg/L	0.100	0.116	116	85 - 115	2003-06-02
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2003-06-02
Xylene (isomers)		mg/L	0.300	0.305	102	85 - 115	2003-06-02

[1] Average of CCV components within acceptable range.

Page 1 of 1

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3060212

Company Name: HZA Environmental Phone #: 361-777-0860

Address: (Street, City, Zip) 418 San Saba Portland TX 78374 Fax #: 361-777-0971

Contact Person: Jena Henry Eagle LLC CRNT P.O. Box 2648 Houston TX 77252

Invoice to: (If different from above) 713-241-0236 Fax - 713-214-4119

Project #: 106.001 Project Name: Jal Station

Project Location: Jal NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
8745	Effluent	2	2(40)	X				X				X		5-30	800
46	LRP-1	1	1L			X						X		5-30	810
47	LRP-2	1	1L			X						X		5-30	815

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO Turtle					Turn Around Time if different from standard	Hold
	X																				
															X						
															X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5-30-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				6-2-03	1122

LAB USE ONLY

Intact (Y) N

Headspace Y (N)

Temp 25 °C

Log-in Review

REMARKS:

P&F 6/5/03

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 8346 7980 1980

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: August 14, 2003

Work Order: 3080505

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
14470	Effluent	water	2003-07-26	12:00	2003-08-05

Comment(s)
Sample 14470: Sample ran within hold time. Reported after hold time due to prep error in curve standard.

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
14470 - Effluent	<0.00500	<0.00500	<0.00500	<0.00500

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: August 14, 2003

Work Order: 3080505

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
14471	LRP 1	air	2003-07-26	12:00	2003-08-05

Comment(s)
Sample 14470: Sample ran within hold time. Reported after hold time due to prep error in curve standard.

Sample: 14471 - LRP 1

Param	Flag	Result	Units	RL
TVHC		<500	mg/m3	0.100

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: August 14, 2003

Work Order: 3080505

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
14471	LRP 1	air	2003-07-26	12:00	2003-08-05

Comment(s)
Sample 14470: Sample ran within hold time. Reported after hold time due to prep error in curve standard.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 14471 - LRP 1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	3642	Date Analyzed:	2003-08-09	Analyzed By:	MT
Prep Batch:	3290	Date Prepared:	2003-08-09	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		<500	mg/m3	5000	0.100

Method Blank (1) QC Batch: 3642

Parameter	Flag	Result	Units	RL
TVHC		0.197	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 3642

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TVHC	1.02	1.15	mg/L	1	1.00	<0.100	102	12	78.1 - 124	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 3642

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.940	94	85 - 115	2003-08-09

Standard (CCV-1) QC Batch: 3642

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.919	92	85 - 115	2003-08-09

Page Number: 3 of 3
2 miles south of Jal, NM on Hwy 18

Work Order: 3080505
Jal Basin Station

Report Date: August 14, 2003
106.001

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3080505

Company Name: H2A Environmental Phone #: 713-647-8367

Address: (Street, City, Zip) Fax #:

Contact Person: Monica Slentz

Invoice to:
(If different from above)

Project #: 106-001 Project Name: Jal Station

Project Location: Jal Station Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
14470	Effluent	2	2(40)	X				X				X		7-26	1200
14471	LRP 1	1	1L			X						X			

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	TPH 8015 DRO	Turn Around Time if different from standard	Hold
	X														X		
															X		

	Date:	Time:		Date:	Time:
Relinquished by:	8-4-03	1200	Received by:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	8-5-03	9:13

LAB USE ONLY

Intact (Y) N
Headspace Y (N)
Temp #2 1a °
Log-in Review MF

REMARKS:
Call Monica Slentz @ 713-647-8367 or 713-347-1214 for fax # & address

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 839867434713

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: August 14, 2003

Work Order: 3080505

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
14470	Effluent	water	2003-07-26	12:00	2003-08-05

Comment(s)
Sample 14470: Sample ran within hold time. Reported after hold time due to prep error in curve standard.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 14470 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	3696	Date Analyzed:	2003-08-12	Analyzed By:	MT
Prep Batch:	3332	Date Prepared:	2003-08-12	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00500		mg/L	5	0.00100
Toluene		<0.00500		mg/L	5	0.00100
Ethylbenzene		<0.00500		mg/L	5	0.00100
Xylene (isomers)		<0.00500		mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.455	mg/L	5	0.100	91	61 - 127
4-Bromofluorobenzene (4-BFB)		0.428	mg/L	5	0.100	86	72.6 - 130

Method Blank (1) QC Batch: 3696

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		0.00130	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	61 - 127
4-Bromofluorobenzene (4-BFB)		0.0954	mg/L	1	0.100	95	72.6 - 130

Laboratory Control Spike (LCS-1) QC Batch: 3696

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.102	0.102	mg/L	1	0.100	<0.000350	102	0	77.7 - 115	20
Toluene	0.103	0.102	mg/L	1	0.100	<0.000550	103	0	76.5 - 114	20
Ethylbenzene	0.105	0.105	mg/L	1	0.100	<0.000690	105	0	78.7 - 112	20
Xylene (isomers)	0.308	0.309	mg/L	1	0.300	<0.000610	103	0	66.3 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.106	0.106	mg/L	1	0.100	106	106	61 - 127
4-Bromofluorobenzene (4-BFB)	0.102	0.102	mg/L	1	0.100	102	102	72.6 - 130

Standard (CCV-1) QC Batch: 3696

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2003-08-12
Toluene		mg/L	0.100	0.105	105	85 - 115	2003-08-12
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2003-08-12
Xylene (isomers)		mg/L	0.300	0.312	104	85 - 115	2003-08-12

Standard (CCV-2) QC Batch: 3696

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2003-08-12
Toluene		mg/L	0.100	0.105	105	85 - 115	2003-08-12
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2003-08-12
Xylene (isomers)		mg/L	0.300	0.312	104	85 - 115	2003-08-12

Page Number: 4 of 4
2 miles south of Jal, NM on Hwy 18

Work Order: 3080505
Jal Basin Station

Report Date: August 14, 2003
106.001

Page____ of____

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3080505

Company Name: H2A Environmental Phone #: 713-647-8367

Address: (Street, City, Zip) Fax #:

Contact Person: Monica Slentz

Invoice to:
(If different from above)

Project #: 106-001 Project Name: Jal Station

Project Location: Jal Station Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
14470	Effluent	2	2x40	X				X				X		7-26	1200
14471	LRP 1	1	1L			X						X			

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO						Turn Around Time if different from standard	Hold
	X														X							
															X							

Relinquished by:	Date: 8-4-03	Time: 1200
Relinquished by:	Date:	Time:
Relinquished by:	Date:	Time:
Received by:	Date:	Time:
Received by:	Date:	Time:
Received at Laboratory by:	Date: 8-5-03	Time: 9:13

LAB USE ONLY
Intact (Y) N
Headspace Y (N)
Temp 4°C
Log-In Review MF

REMARKS:
Call Monica Slentz @ 713-647-8367 or 713-397-1214 for fax # & address

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 839867434713

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Tel (915) 585-3443
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30805-05

Company Name: H2A Enviroamental Phone #: 713-647-8367

Address: (Street, City, Zip) Fax #:

Contact Person: Monica Slentz

Invoice to: (If different from above)

Project #: 106-001 Project Name: Jal Station

Project Location: Jal Station Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
14470	Effluent	2	2(40)	X				X				X		7-26	1200
14471	LRP 1	1	1L			X						X			

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 - DRO TVH					Turn Around Time if different from standard	Hold
	X														X								
															X								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	8-4-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				8-5-03	9:13

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LAB USE ONLY

Intact (Y) N

Headspace Y (N)

Temp 1.2 °C

Log-in Review NF

REMARKS:
Call Monica Slentz @ 713-647-8367 or 713-397-1214 for fax # + address

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 839867434713

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: September 11, 2003

Work Order: 3090413

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
16629	Effluent	water	2003-08-31	11:00	2003-09-04

	BTEX			
	Benzene	Toluene	Ethylbenzene	Xylene (isomers)
Sample - Field Code	(mg/L)	(mg/L)	(mg/L)	(mg/L)
16629 - Effluent	<0.00500	<0.00500	<0.00500	0.00920

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: September 11, 2003

Work Order: 3090413

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
16630	LRP 1	air	2003-08-31	11:10	2003-09-04

Sample: 16630 - LRP 1

Param	Flag	Result	Units	RL
TVHC		222	mg/m3	0.100

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: September 11, 2003

Work Order: 3090413

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
16630	LRP 1	air	2003-08-31	11:10	2003-09-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 16630 - LRP 1

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	4239	Date Analyzed:	2003-09-08	Analyzed By:	MT
Prep Batch:	3800	Date Prepared:	2003-09-08	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		222	mg/m3	1000	0.100

Method Blank (1) QC Batch: 4239

Parameter	Flag	Result	Units	RL
TVHC		0.191	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 4239

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TVHC	0.900	0.906	mg/L	1	1.00	<0.100	90	1	78.1 - 124	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 4239

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.859	86	85 - 115	2003-09-08

Standard (CCV-1) QC Batch: 4239

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.08	108	85 - 115	2003-09-08

Page Number: 3 of 3
2 miles south of Jal, NM on Hwy 18

Work Order: 3090413
Jal Basin Station

Report Date: September 11, 2003
106.001

Page 1 of 1

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3090413

Company Name: HJA Environmental
Phone #: 713-647-8367
Address: (Street, City, Zip) 1310 Spillers Lane Houston TX 77043
Fax #: 713-984-2064
Contact Person: Monica Skeen
Invoice to: (If different from above)
Project #: 196-001
Project Name: Jal Station
Project Location: Jal NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
16629	Effluent	2	40	X				X				X		8-31	1100
16630	LRP 1	1	1L			X						X		8-31	1110

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	TPH 8015 DRO	Turn Around Time if different from standard	Hold
	X													X	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9-3-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				9-4-03	11:26

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LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 21°c
Log-In Review

REMARKS:
Called Monica 9-4-03
left message. 4:30.
RC. temp 21°.

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 8346 7980 2005

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: September 11, 2003

Work Order: 3090413

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
16629	Effluent	water	2003-08-31	11:00	2003-09-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 16629 - Effluent

Analysis:	BTEX	Analytical Method:	E 602	Prep Method:	N/A
QC Batch:	4283	Date Analyzed:	2003-09-10	Analyzed By:	BS
Prep Batch:	3826	Date Prepared:	2003-09-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00500		mg/L	5	0.00100
Toluene		<0.00500		mg/L	5	0.00100
Ethylbenzene		<0.00500		mg/L	5	0.00100
Xylene (isomers)		0.00920		mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.396	mg/L	5	0.100	79	78.7 - 110
4-Bromofluorobenzene (4-BFB)		0.447	mg/L	5	0.100	89	77.8 - 110

Method Blank (1) QC Batch: 4283

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0869	mg/L	1	0.100	87	78.7 - 110
4-Bromofluorobenzene (4-BFB)		0.0984	mg/L	1	0.100	98	77.8 - 110

Laboratory Control Spike (LCS-1) QC Batch: 4283

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0925	0.0934	mg/L	1	0.100	<0.000410	92	1	80.5 - 113	20
Benzene	0.0925	0.0934	mg/L	1	0.100	<0.000410	92	1	80.5 - 113	20
Toluene	0.0921	0.0936	mg/L	1	0.100	<0.000760	92	2	81.2 - 112	20
Toluene	0.0921	0.0936	mg/L	1	0.100	<0.000760	92	2	81.2 - 112	20
Ethylbenzene	0.0918	0.0939	mg/L	1	0.100	<0.00120	92	2	82.2 - 112	20
Ethylbenzene	0.0918	0.0939	mg/L	1	0.100	<0.00120	92	2	82.2 - 112	20
Xylene (isomers)	0.257	0.264	mg/L	1	0.300	<0.00121	86	3	80.6 - 112	20
Xylene (isomers)	0.257	0.264	mg/L	1	0.300	<0.00121	86	3	80.6 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0864	0.0920	mg/L	1	0.100	86	92	78.7 - 110

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0864	0.0920	mg/L	1	0.100	86	92	78.7 - 110
4-Bromofluorobenzene (4-BFB)	0.0924	0.0972	mg/L	1	0.100	92	97	77.8 - 110
4-Bromofluorobenzene (4-BFB)	0.0924	0.0972	mg/L	1	0.100	92	97	77.8 - 110

Standard (CCV-1) QC Batch: 4283

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0896	90	85 - 115	2003-09-10
Toluene		mg/L	0.100	0.0909	91	85 - 115	2003-09-10
Ethylbenzene		mg/L	0.100	0.0907	91	85 - 115	2003-09-10
Xylene (isomers)		mg/L	0.300	0.256	85	85 - 115	2003-09-10

Standard (CCV-2) QC Batch: 4283

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0913	91	85 - 115	2003-09-10
Toluene		mg/L	0.100	0.0923	92	85 - 115	2003-09-10
Ethylbenzene		mg/L	0.100	0.0921	92	85 - 115	2003-09-10
Xylene (isomers)		mg/L	0.300	0.259	86	85 - 115	2003-09-10

Page Number: 4 of 4
2 miles south of Jal, NM on Hwy 18

Work Order: 3090413
Jal Basin Station

Report Date: September 11, 2003
106.001

Page 1 of 1

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TraceAnalysis, Inc.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3090413

Company Name: HJA Environmental
Phone #: 713-647-8367
Address: (Street, City, Zip) 1310 Spillers Lane Houston TX 77043
Fax #: 713-984-2064
Contact Person: Monica Skeeta
Invoice to: (If different from above)
Project #: 196-001
Project Name: Jal Station
Project Location: Jal NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
16629	Effluent	2	40	X				X				X		8-31	1100
16630	LRP 1	1	1L			X						X		8-31	1110

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	TPH 8015 DRO							Turn Around Time if different from standard	Hold
	X														X								
															X								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9-2-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				9-3-03	11:26

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 21°c
Log-In Review

REMARKS:
Called Monica 9-4-03
left message. 4:30.
MC. temp 21°.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3090413

Company Name: HJA Environmental
Phone #: 713-647-8367
Address: (Street, City, Zip) 1310 Spillers Lane Houston TX 77043
Fax #: 713-984-2064
Contact Person: Monica Skeeta
Invoice to: (If different from above)
Project #: 196-001
Project Name: Jal Station
Project Location: Jal NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO - TVHC				Turn Around Time if different from standard	Hold
16629	Effluent	2	40	X				X				X		8-31	1100		X														X					
16630	LRP 1	1	1L			X						X		8-31	1110																X					

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9-2-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				9-3-03	11:26

LAB USE ONLY
Intact Y / N
Headspace Y (N)
Temp 21°C
Log-in Review

REMARKS: called Monica 9-4-03 left message. 4:30. nc. temp 21°.

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 8346 7980 2005

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Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: November 5, 2003

Work Order: 3110317

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
20634	Effluent	water	2003-10-29	08:00	2003-11-03

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
20634 - Effluent	0.0630	0.283	0.144	0.572

Summary Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: November 5, 2003

Work Order: 3110317

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
20635	LRP	air	2003-10-29	08:10	2003-11-03

Sample: 20635 - LRP

Param	Flag	Result	Units	RL
TVHC		236	mg/m3	0.100

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: November 5, 2003

Work Order: 3110317

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
20635	LRP	air	2003-10-29	08:10	2003-11-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 20635 - LRP

Analysis:	TVHC	Analytical Method:	S 8015	Prep Method:	N/A
QC Batch:	5500	Date Analyzed:	2003-11-04	Analyzed By:	MT
Prep Batch:	4919	Date Prepared:	2003-11-03	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
TVHC		236	mg/m3	1000	0.100

Method Blank (1) QC Batch: 5500

Parameter	Flag	Result	Units	RL
TVHC		<0.100	mg/L	0.1

Laboratory Control Spike (LCS-1) QC Batch: 5500

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TVHC	1.01	1.01	mg/L	1	1.00	<0.100	101	0	78.1 - 124	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 5500

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	1.03	103	85 - 115	2003-11-04

Standard (CCV-1) QC Batch: 5500

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TVHC		mg/L	1.00	0.969	97	85 - 115	2003-11-04

Report Date: November 5, 2003
106.001

Work Order: 3110317
Jal Basin Station
2 miles south of Jal, NM on Hwy 18

Page Number: 3 of 3

Page 1 of 1

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3110317

Company Name: HJA Environmental Phone #: 281-679-8852

Address: (Street, City, Zip) 11999 Katy Freeway Suite 300 Houston TX 77079 Fax #: 281-679-8854

Contact Person: Marica Slaytz

Invoice to: (If different from above)

Project #: 106.001 Project Name: Jal Station 1

Project Location: Jal NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
20634	Effluent	2	2(40)	X				X				X		10-29	0830
35	LRP	1	1L			X						X		"	0810

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO	Turn Around Time if different from standard	Hold
	X														X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	10-30-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				10-31-03	1029

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 20° °
Log-in Review MK

REMARKS:

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Carrier # Fed Ex 839867454678

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
1310 Spillers Ln
Houston, TX 77043

Report Date: November 5, 2003

Work Order: 3110317

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
20634	Effluent	water	2003-10-29	08:00	2003-11-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 20634 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	5497	Date Analyzed:	2003-11-03	Analyzed By:	MT
Prep Batch:	4917	Date Prepared:	2003-11-03	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0630	mg/L	5	0.00100
Toluene		0.283	mg/L	5	0.00100
Ethylbenzene		0.144	mg/L	5	0.00100
Xylene (isomers)		0.572	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	0.948	mg/L	5	0.100	190	70 - 130
4-Bromofluorobenzene (4-BFB)	[2]	0.967	mg/L	5	0.100	193	70 - 130

Method Blank (1) QC Batch: 5497

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0991	mg/L	1	0.100	99	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 5497

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0980	0.0968	mg/L	1	0.100	<0.000238	98	1	70 - 130	20
Toluene	0.0974	0.0971	mg/L	1	0.100	<0.000532	97	0	70 - 130	20
Ethylbenzene	0.0948	0.0975	mg/L	1	0.100	<0.00160	95	3	70 - 130	20
Xylene (isomers)	0.284	0.292	mg/L	1	0.300	<0.00571	95	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0968	0.0953	mg/L	1	0.100	97	95	70 - 130
4-Bromofluorobenzene (4-BFB)	0.101	0.0961	mg/L	1	0.100	101	96	70 - 130

[1]High surrogate recovery due to peak interference.
[2]High surrogate recovery due to peak interference.

Standard (CCV-1) QC Batch: 5497

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0989	99	85 - 115	2003-11-03
Toluene		mg/L	0.100	0.100	100	85 - 115	2003-11-03
Ethylbenzene	[3]	mg/L	0.100	0.116	116	85 - 115	2003-11-03
Xylene (isomers)		mg/L	0.300	0.325	108	85 - 115	2003-11-03

Standard (CCV-2) QC Batch: 5497

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0953	95	85 - 115	2003-11-03
Toluene		mg/L	0.100	0.110	110	85 - 115	2003-11-03
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2003-11-03
Xylene (isomers)		mg/L	0.300	0.294	98	85 - 115	2003-11-03

[3]Ethylbenzene outside normal limits in ICV/CCV. Average of ICV/CCV components within acceptable range.

Report Date: November 5, 2003
106.001

Work Order: 3110317
Jal Basin Station
2 miles south of Jal, NM on Hwy 18

Page Number: 4 of 4

Page 1 of 1

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3110317

Company Name: HJA Environmental Phone #: 281-679-8852

Address: (Street, City, Zip) 11999 Katy Freeway Suite 300 Houston TX 77079 Fax #: 281-679-8854

Contact Person: Marica Sleyter

Invoice to: (If different from above)

Project #: 106.001 Project Name: Jal Station

Project Location: Jal NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
20634	Effluent	2	2(40)	X				X				X		10-29	0830
35	LRP	1	1L			X						X		"	0830

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO	Turn Around Time if different from standard	Hold
	X																
															X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	10-30-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				10-31-03	1029

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 20c °
Log-in Review MK

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 839867454678

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3110317

Company Name: H2A Environmental Phone #: 281-679-8852
Address: (Street, City, Zip) 11999 Katy Freeway Suite 300 Houston TX 77079 Fax #: 281-679-8854
Contact Person: Monica Slentz
Invoice to: (If different from above)
Project #: 106001 Project Name: Jal Station
Project Location: Jal NM Sampler Signature: [signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO TVHC	Turn Around Time if different from standard	Hold
20634	Effluent	2	2(40)	X				X				X		10-24	0800		X																
35	LRP	1	1L			X						X		"	0810																X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	10-30-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	10-31-03	1029

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2.0°c
Log-in Review MK

REMARKS:

☐ Check If Special Reporting Limits Are Needed

11:50

Carrier # Fed Ex 839867454678

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: December 8, 2003

Work Order: 3120217

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
22412	Effluent	water	2003-11-25	09:15	2003-12-02

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (isomers) (mg/L)
22412 - Effluent	<0.00100	<0.00100	<0.00100	0.00170

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: December 8, 2003

Work Order: 3120217

Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
22412	Effluent	water	2003-11-25	09:15	2003-12-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 22412 - Effluent

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	6188	Date Analyzed:	2003-12-08	Analyzed By:	JBS
Prep Batch:	5517	Date Prepared:	2003-12-04	Prepared By:	BS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene (isomers)		0.00170	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0930	mg/L	1	0.100	93	70 - 135
4-Bromofluorobenzene (4-BFB)		0.0865	mg/L	1	0.100	86	70 - 130

Method Blank (1) QC Batch: 6188

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene (isomers)		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0917	mg/L	1	0.100	92	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 6188

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0995	0.107	mg/L	1	0.100	<0.000238	100	8	70 - 130	20
Benzene	0.0995	0.107	mg/L	1	0.100	<0.000238	100	8	70 - 130	20
Toluene	0.0944	0.104	mg/L	1	0.100	<0.000532	94	9	70 - 130	20
Toluene	0.0944	0.104	mg/L	1	0.100	<0.000532	94	9	70 - 130	20
Ethylbenzene	0.0932	0.104	mg/L	1	0.100	<0.00160	93	11	70 - 130	20
Ethylbenzene	0.0932	0.104	mg/L	1	0.100	<0.00160	93	11	70 - 130	20
Xylene (isomers)	0.278	0.310	mg/L	1	0.300	<0.00571	93	10	70 - 130	20
Xylene (isomers)	0.278	0.310	mg/L	1	0.300	<0.00571	93	10	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.104	0.102	mg/L	1	0.100	104	102	70 - 130

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.104	0.102	mg/L	1	0.100	104	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.102	0.100	mg/L	1	0.100	102	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.102	0.100	mg/L	1	0.100	102	100	70 - 130

Standard (CCV-1) QC Batch: 6188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2003-12-08
Toluene		mg/L	0.100	0.102	102	85 - 115	2003-12-08
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2003-12-08
Xylene (isomers)		mg/L	0.300	0.299	100	85 - 115	2003-12-08

Standard (CCV-2) QC Batch: 6188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2003-12-08
Toluene		mg/L	0.100	0.0991	99	85 - 115	2003-12-08
Ethylbenzene		mg/L	0.100	0.0974	97	85 - 115	2003-12-08
Xylene (isomers)		mg/L	0.300	0.291	97	85 - 115	2003-12-08

Report Date: December 8, 2003
106.001

Work Order: 3120217
Jal Basin Station

Page Number: 4 of 4
2 miles south of Jal, NM on Hwy 18

TRACE ANALYSIS INC.
6701 Aberdeen Ave., Suite 9
Lubbock, TX 79424
800-378-1296 Fax 806-794-1298
Email Lab @ traceanalysis.com

SHELL OIL PRODUCTS US / MOTIVA Chain of Custody Record 3120217

Shell Project Manager to be invoiced:
[X] SCIENCE & ENGINEERING Name: Ken Springer
[ ] TECHNICAL SERVICES Address: 777 Walker St. (TSP 1206)
[ ] CRMT HOUSTON City/Street: Houston TX Zip: 77002
Telephone: 713-241-6926 Email:

INCIDENT NUMBER (S&E ONLY): 3 0 0 1 4 3
SAP or CRMT NUMBER (TS/CRMT):
LAB ORDER ID:
LAB USE ONLY:
PAGE: of

CONSULTANT COMPANY: H2A Environmental
ADDRESS: 11999 Katy Freeway Suite 320
CITY: Houston TX 77043
TELEPHONE: FAX: EMAIL:

SITE NAME/ADDRESS (Street and City): Jal Station, Jal NM
PROJECT CONTACT (Report to): Monica Stanton
CONSULTANT PROJECT NO.: 106.001
SAMPLER NAME(S) (Print): John Savoie

TURNAROUND TIME (BUSINESS DAYS):
[X] 10 DAYS [ ] 5 DAYS [ ] 72 HOURS [ ] 48 HOURS [ ] 24 HOURS [ ] LESS THAN 24 HOURS
[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TPH TX1005 Extended	PAH 8270C	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO				
22412	Effluent	2	2(40)	X				X				X		11-25-03	915		X																	
413	LRP 1	1	1L			X						X		11-26-03	920															X				
414	LRP 2	1	1L			X						X		11-26-03	930															X				

Relinquished by: John Savoie Date: 12-4-03 Time: 1500
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:

LAB USE ONLY
Intact Y/N
Headspace Y/N
Temp °
Log-In Review

REMARKS:
[ ] Check If Dry Weight Reporting Is Required
[ ] Check If Special Reporting Limits Are Needed
[ ] Check If TRRP Reports Are Required

Carrier # Fed Ex 834679802992

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Summary Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: January 14, 2004

Work Order: 3123103

Incident #: 300143
Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
24180	Effluent	water	2003-12-30	08:00	2003-12-31

Sample: 24180 - Effluent

Param	Flag	Result	Units	RL
Chloride		50.9	mg/L	0.500
Fluoride		3.87	mg/L	0.200
Nitrate-N		<1.00	mg/L	0.200
Naphthalene		<0.000200	mg/L	0.200
Acenaphthylene		<0.000200	mg/L	0.200
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		<0.000200	mg/L	0.200
Phenanthrene		<0.000200	mg/L	0.200
Anthracene		<0.000200	mg/L	0.200
Fluoranthene		<0.000200	mg/L	0.200
Pyrene		<0.000200	mg/L	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.200
Chrysene		<0.000200	mg/L	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.200
Benzo(k)fluoranthene		<0.000200	mg/L	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.200
Sulfate		171	mg/L	0.500
Total Dissolved Solids		766.0	mg/L	10.00
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.0100
Total Barium		0.0320	mg/L	0.0100
Total Cadmium		<0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100

continued ...

sample 24180 continued ...

Param	Flag	Result	Units	RL
Total Selenium		<0.0100	mg/L	0.0100
Total Cyanide		<0.0100	mg/L	0.0100
Bromochloromethane		<1.00	µg/L	1.00
Dichlorodifluoromethane		<1.00	µg/L	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1.00
Vinyl Chloride		<1.00	µg/L	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	5.00
Chloroethane		<1.00	µg/L	1.00
Trichlorofluoromethane		<1.00	µg/L	1.00
Acetone		<10.0	µg/L	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	5.00
Carbon Disulfide		<1.00	µg/L	1.00
Acrylonitrile		<1.00	µg/L	1.00
2-Butanone (MEK)		<5.00	µg/L	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	5.00
2-Hexanone		<5.00	µg/L	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10.0
1,1-Dichloroethene		<1.00	µg/L	1.00
Methylene chloride		<5.00	µg/L	5.00
MTBE		<1.00	µg/L	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1.00
1,1-Dichloroethane		<1.00	µg/L	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1.00
2,2-Dichloropropane		<1.00	µg/L	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1.00
Chloroform		<1.00	µg/L	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1.00
1,1-Dichloropropene		<1.00	µg/L	1.00
Benzene		<1.00	µg/L	1.00
Carbon Tetrachloride		<1.00	µg/L	1.00
1,2-Dichloropropane		<1.00	µg/L	1.00
Trichloroethene (TCE)		<1.00	µg/L	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1.00
Bromodichloromethane		<1.00	µg/L	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1.00
1,3-Dichloropropane		<1.00	µg/L	1.00
Dibromochloromethane		<1.00	µg/L	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1.00
Chlorobenzene		<1.00	µg/L	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
Bromoform		<1.00	µg/L	1.00
Styrene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1.00
2-Chlorotoluene		<1.00	µg/L	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1.00

continued ...

sample 24180 continued ...

Param	Flag	Result	Units	RL
Isopropylbenzene		<1.00	µg/L	1.00
Bromobenzene		<1.00	µg/L	1.00
n-Propylbenzene		<1.00	µg/L	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1.00
tert-Butylbenzene		<1.00	µg/L	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1.00
sec-Butylbenzene		<1.00	µg/L	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1.00
p-Isopropyltoluene		<1.00	µg/L	1.00
4-Chlorotoluene		<1.00	µg/L	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1.00
n-Butylbenzene		<1.00	µg/L	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	5.00
Naphthalene		<5.00	µg/L	5.00
Hexachlorobutadiene		<5.00	µg/L	5.00

Analytical and Quality Control Report

Monica Slentz
H2A Environmental
11999 Katy Frwy Suite 320
Houston, TX 77079

Report Date: January 14, 2004

Work Order: 3123103

Incident #: 300143
Project Location: 2 miles south of Jal, NM on Hwy 18
Project Name: Jal Basin Station
Project Number: 106.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
24180	Effluent	water	2003-12-30	08:00	2003-12-31

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 24180 - Effluent

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	6612	Date Analyzed:	2004-01-02	Analyzed By:	JSW
Prep Batch:	5918	Date Prepared:	2003-12-31	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		50.9	mg/L	5	0.500

Sample: 24180 - Effluent

Analysis:	Fluoride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	6612	Date Analyzed:	2004-01-02	Analyzed By:	JSW
Prep Batch:	5918	Date Prepared:	2003-12-31	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		3.87	mg/L	5	0.200

Sample: 24180 - Effluent

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	6612	Date Analyzed:	2004-01-02	Analyzed By:	JSW
Prep Batch:	5918	Date Prepared:	2003-12-31	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		<1.00	mg/L	5	0.200

Sample: 24180 - Effluent

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	6735	Date Analyzed:	2004-01-08	Analyzed By:	RC
Prep Batch:	5955	Date Prepared:	2004-01-05	Prepared By:	JH

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	0.001	0.200
Acenaphthylene		<0.000200	mg/L	0.001	0.200
Acenaphthene		<0.000200	mg/L	0.001	0.200
Fluorene		<0.000200	mg/L	0.001	0.200
Phenanthrene		<0.000200	mg/L	0.001	0.200
Anthracene		<0.000200	mg/L	0.001	0.200
Fluoranthene		<0.000200	mg/L	0.001	0.200
Pyrene		<0.000200	mg/L	0.001	0.200
Benzo(a)anthracene		<0.000200	mg/L	0.001	0.200
Chrysene		<0.000200	mg/L	0.001	0.200
Benzo(b)fluoranthene		<0.000200	mg/L	0.001	0.200

continued ...

sample 24180 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(k)fluoranthene		<0.000200	mg/L	0.001	0.200
Benzo(a)pyrene		<0.000200	mg/L	0.001	0.200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.001	0.200
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.001	0.200
Benzo(g,h,i)perylene		<0.000200	mg/L	0.001	0.200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0572	mg/L	0.001	80.0	72	21 - 145
2-Fluorobiphenyl		0.0603	mg/L	0.001	80.0	75	25 - 145
Terphenyl-d14		0.0613	mg/L	0.001	80.0	77	26 - 127

Sample: 24180 - Effluent

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	6612	Date Analyzed:	2004-01-02	Analyzed By:	JSW
Prep Batch:	5918	Date Prepared:	2003-12-31	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		171	mg/L	5	0.500

Sample: 24180 - Effluent

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	6702	Date Analyzed:	2004-01-06	Analyzed By:	JSW
Prep Batch:	5989	Date Prepared:	2004-01-05	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		766.0	mg/L	2	10.00

Sample: 24180 - Effluent

Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	6697	Date Analyzed:	2004-01-06	Analyzed By:	RR
Prep Batch:	5978	Date Prepared:	2004-01-05	Prepared By:	TP
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	6712	Date Analyzed:	2004-01-07	Analyzed By:	BC
Prep Batch:	6002	Date Prepared:	2004-01-07	Prepared By:	BC

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		0.0320	mg/L	1	0.0100

continued ...

sample 24180 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Chromium		<0.0100	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 24180 - Effluent

Analysis:	Total Cyanide	Analytical Method:	SM 4500-CN C,E	Prep Method:	N/A
QC Batch:	6692	Date Analyzed:	2004-01-05	Analyzed By:	MW
Prep Batch:	5987	Date Prepared:	2004-01-05	Prepared By:	MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cyanide		<0.0100	mg/L	1	0.0100

Sample: 24180 - Effluent

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	6639	Date Analyzed:	2003-12-31	Analyzed By:	JG
Prep Batch:	5936	Date Prepared:	2003-12-31	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00

continued ...

sample 24180 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
1,1,1-Trichloroethane		<1.00		µg/L	1	1.00
1,1-Dichloropropene		<1.00		µg/L	1	1.00
Benzene		<1.00		µg/L	1	1.00
Carbon Tetrachloride		<1.00		µg/L	1	1.00
1,2-Dichloropropane		<1.00		µg/L	1	1.00
Trichloroethene (TCE)		<1.00		µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00		µg/L	1	1.00
Bromodichloromethane		<1.00		µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00		µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00		µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00		µg/L	1	1.00
Toluene		<1.00		µg/L	1	1.00
1,1,2-Trichloroethane		<1.00		µg/L	1	1.00
1,3-Dichloropropane		<1.00		µg/L	1	1.00
Dibromochloromethane		<1.00		µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00		µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00		µg/L	1	1.00
Chlorobenzene		<1.00		µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00		µg/L	1	1.00
Ethylbenzene		<1.00		µg/L	1	1.00
m,p-Xylene		<1.00		µg/L	1	1.00
Bromoform		<1.00		µg/L	1	1.00
Styrene		<1.00		µg/L	1	1.00
o-Xylene		<1.00		µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00		µg/L	1	1.00
2-Chlorotoluene		<1.00		µg/L	1	1.00
1,2,3-Trichloropropane		<1.00		µg/L	1	1.00
Isopropylbenzene		<1.00		µg/L	1	1.00
Bromobenzene		<1.00		µg/L	1	1.00
n-Propylbenzene		<1.00		µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00		µg/L	1	1.00
tert-Butylbenzene		<1.00		µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00		µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00		µg/L	1	1.00
sec-Butylbenzene		<1.00		µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00		µg/L	1	1.00
p-Isopropyltoluene		<1.00		µg/L	1	1.00
4-Chlorotoluene		<1.00		µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00		µg/L	1	1.00
n-Butylbenzene		<1.00		µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00		µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00		µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00		µg/L	1	5.00
Naphthalene		<5.00		µg/L	1	5.00
Hexachlorobutadiene		<5.00		µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.4	µg/L	1	50.0	103	70 - 130
Toluene-d8		49.5	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		47.9	µg/L	1	50.0	96	70 - 130

Method Blank (1) QC Batch: 6612

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 6612

Parameter	Flag	Result	Units	RL
Fluoride		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 6612

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 6612

Parameter	Flag	Result	Units	RL
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 6639

Parameter	Flag	Result	Units	RL
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-Hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	Result	Units	RL
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.3	µg/L	1	50.0	103	70 - 130
Toluene-d8		51.0	µg/L	1	50.0	102	70 - 130
4-Bromofluorobenzene (4-BFB)		48.3	µg/L	1	50.0	97	70 - 130

Method Blank (1) QC Batch: 6692

Parameter	Flag	Result	Units	RL
Total Cyanide		<0.0100	mg/L	0.01

Method Blank (1) QC Batch: 6697

Parameter	Flag	Result	Units	RL
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.01
Total Barium		<0.0100	mg/L	0.01
Total Cadmium		<0.00500	mg/L	0.005
Total Chromium		<0.0100	mg/L	0.01
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0100	mg/L	0.01

Method Blank (1) QC Batch: 6702

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 6712

Parameter	Flag	Result	Units	RL
Total Mercury		<0.000200	mg/L	0.0002

Method Blank (1) QC Batch: 6735

Parameter	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.2
Acenaphthylene		<0.000200	mg/L	0.2
Acenaphthene		<0.000200	mg/L	0.2
Fluorene		<0.000200	mg/L	0.2
Phenanthrene		<0.000200	mg/L	0.2
Anthracene		<0.000200	mg/L	0.2

continued ...

method blank continued ...

Parameter	Flag	Result	Units	RL
Fluoranthene		<0.000200	mg/L	0.2
Pyrene		<0.000200	mg/L	0.2
Benzo(a)anthracene		<0.000200	mg/L	0.2
Chrysene		<0.000200	mg/L	0.2
Benzo(b)fluoranthene		<0.000200	mg/L	0.2
Benzo(k)fluoranthene		<0.000200	mg/L	0.2
Benzo(a)pyrene		<0.000200	mg/L	0.2
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.2
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.2
Benzo(g,h,i)perylene		<0.000200	mg/L	0.2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0465	mg/L	0.001	80.0	58	21 - 145
2-Fluorobiphenyl		0.0522	mg/L	0.001	80.0	65	25 - 145
Terphenyl-d14		0.0622	mg/L	0.001	80.0	78	26 - 127

Duplicate (1) QC Batch: 6702

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	826.0	766.0	mg/L	2	8	8.7

Laboratory Control Spike (LCS-1) QC Batch: 6612

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.5	11.4	mg/L	1	12.5	<1.49	92	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6612

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Fluoride	2.40	2.41	mg/L	1	2.50	<0.0153	96	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6612

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.47	2.43	mg/L	1	2.50	<0.126	99	2	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6612

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	11.8	11.7	mg/L	1	12.5	<0.171	94	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6639

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	104	104	µg/L	1	100	<0.136	104	0	70 - 130	20
Benzene	102	102	µg/L	1	100	0.15	102	0	70 - 130	20
Trichloroethene (TCE)	100	97.7	µg/L	1	100	0.17	100	2	70 - 130	20
Toluene	89.9	90.6	µg/L	1	100	0.19	90	1	70 - 130	20
Chlorobenzene	105	103	µg/L	1	100	<0.0540	105	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	49.5	50.2	µg/L	1	50.0	99	100	70 - 130
Toluene-d8	51.1	50.3	µg/L	1	50.0	102	101	70 - 130
4-Bromofluorobenzene (4-BFB)	49.8	49.7	µg/L	1	50.0	100	99	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 6692

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Cyanide	0.112	0.111	mg/L	1	0.120	<0.00430	93	1	77.1 - 106	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6697

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.120	0.116	mg/L	1	0.125	<0.00274	96	3	85 - 115	20
Total Arsenic	0.502	0.482	mg/L	1	0.500	<0.00489	100	4	85 - 115	20
Total Barium	0.962	0.963	mg/L	1	1.00	<0.000450	96	0	85 - 114	20
Total Cadmium	0.237	0.240	mg/L	1	0.250	<0.000268	95	1	86 - 115	20
Total Chromium	0.0980	0.0990	mg/L	1	0.100	<0.00357	98	1	85 - 115	20
Total Lead	0.476	0.471	mg/L	1	0.500	<0.00698	95	1	86.1 - 112	20
Total Selenium	0.525	0.508	mg/L	1	0.500	<0.00556	105	3	85 - 113	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6712

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.00100	0.00100	mg/L	1	0.00100	<0.0000360	100	0	82 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 6735

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Naphthalene	39.8	39.4	mg/L	1	80.0	<0.0445	50	1	21.4 - 134	20
Acenaphthylene	53.1	52.4	mg/L	1	80.0	<0.0383	66	1	42.1 - 135	20
Acenaphthene	53.1	52.6	mg/L	1	80.0	<0.0421	66	1	41 - 133	20
Fluorene	57.4	56.3	mg/L	1	80.0	<0.0655	72	2	49.3 - 133	20
Phenanthrene	61.3	59.9	mg/L	1	80.0	<0.0383	77	2	54.4 - 135	20
Anthracene	62.7	61.8	mg/L	1	80.0	<0.0468	78	1	42.2 - 130	20
Fluoranthene	62.4	60.0	mg/L	1	80.0	<0.0550	78	4	44.4 - 146	20
Pyrene	82.6	84.7	mg/L	1	80.0	<0.0904	103	2	52.8 - 137	20
Benzo(a)anthracene	70.3	69.5	mg/L	1	80.0	<0.0993	88	1	59 - 134	20
Chrysene	58.2	57.6	mg/L	1	80.0	<0.121	73	1	49.6 - 107	20
Benzo(b)fluoranthene	86.4	72.2	mg/L	1	80.0	<0.171	108	18	43.2 - 134	20
Benzo(k)fluoranthene	86.4	88.7	mg/L	1	80.0	<0.0951	108	3	55.2 - 145	20
Benzo(a)pyrene	82.2	81.8	mg/L	1	80.0	<0.135	103	0	63.9 - 138	20
Indeno(1,2,3-cd)pyrene	82.7	83.4	mg/L	1	80.0	<0.176	103	1	64.6 - 145	20
Dibenzo(a,h)anthracene	94.8	94.3	mg/L	1	80.0	<0.184	118	0	48.6 - 142	20
Benzo(g,h,i)perylene	79.0	78.5	mg/L	1	80.0	<0.134	99	1	71.5 - 146	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	37.4	37.8	mg/L	1	80.0	47	47	20 - 146
2-Fluorobiphenyl	46.1	45.0	mg/L	1	80.0	58	56	25.3 - 146
Terphenyl-d14	71.5	72.2	mg/L	1	80.0	89	90	26 - 127

Matrix Spike (MS-1) QC Batch: 6612

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1030	1040	mg/L	50	12.5	450	93	1	56.4 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6612

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Fluoride	121	121	mg/L	50	2.50	<0.767	97	0	65.1 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6612

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	130	129	mg/L	50	2.50	<6.30	104	1	65.8 - 123	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6612

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	706	707	mg/L	50	12.5	127	93	0	69.9 - 114	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6692

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Cyanide	0.243	0.250	mg/L	1	0.120	0.117	105	3	41.9 - 134	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 6697

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.123	0.119	mg/L	1	0.125	<0.00274	98	3	75 - 125	20
Total Arsenic	0.495	0.497	mg/L	1	0.500	<0.00489	99	0	75 - 125	20
Total Barium	1.06	1.06	mg/L	1	1.00	<0.000450	106	0	75 - 125	20
Total Cadmium	0.248	0.250	mg/L	1	0.250	<0.000268	99	1	75 - 125	20
Total Chromium	0.101	0.100	mg/L	1	0.100	<0.00357	101	1	75 - 125	20
Total Lead	0.511	0.510	mg/L	1	0.500	<0.00698	102	0	75 - 125	20
Total Selenium	0.467	0.472	mg/L	1	0.500	<0.00556	93	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) QC Batch: 6712

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.000990	0.00100	mg/L	1	0.00100	<0.0000360	99	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2004-01-02

Standard (ICV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.46	98	90 - 110	2004-01-02

Standard (ICV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.45	98	90 - 110	2004-01-02

Standard (ICV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.9	95	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.43	97	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.43	97	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6612

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.8	94	90 - 110	2004-01-02

Standard (CCV-1) QC Batch: 6639

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	46.4	93	80 - 120	2003-12-31
1,1-Dichloroethene		µg/L	50.0	51.2	102	80 - 120	2003-12-31
Chloroform		µg/L	50.0	45.7	91	80 - 120	2003-12-31
1,2-Dichloropropane		µg/L	50.0	49.6	99	80 - 120	2003-12-31
Toluene		µg/L	50.0	43.5	87	80 - 120	2003-12-31
Chlorobenzene		µg/L	50.0	49.2	98	80 - 120	2003-12-31
Ethylbenzene		µg/L	50.0	50.3	101	80 - 120	2003-12-31

Standard (ICV-1) QC Batch: 6692

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.120	0.112	93	85 - 115	2004-01-05

Standard (CCV-1) QC Batch: 6692

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.120	0.126	105	85 - 115	2004-01-05

Standard (ICV-1) QC Batch: 6697

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.116	93	90 - 110	2004-01-06
Total Arsenic		mg/L	1.00	0.990	99	90 - 110	2004-01-06
Total Barium		mg/L	1.00	0.981	98	90 - 110	2004-01-06
Total Cadmium		mg/L	1.00	0.978	98	90 - 110	2004-01-06
Total Chromium		mg/L	1.00	0.989	99	90 - 110	2004-01-06
Total Lead		mg/L	1.00	0.975	98	90 - 110	2004-01-06
Total Selenium		mg/L	1.00	1.01	101	90 - 110	2004-01-06

Standard (CCV-1) QC Batch: 6697

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.121	97	90 - 110	2004-01-06
Total Arsenic		mg/L	1.00	1.03	103	90 - 110	2004-01-06
Total Barium		mg/L	1.00	1.01	101	90 - 110	2004-01-06
Total Cadmium		mg/L	1.00	0.994	99	90 - 110	2004-01-06
Total Chromium		mg/L	1.00	1.01	101	90 - 110	2004-01-06
Total Lead		mg/L	1.00	0.992	99	90 - 110	2004-01-06
Total Selenium		mg/L	1.00	1.02	102	90 - 110	2004-01-06

Standard (ICV-1) QC Batch: 6702

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	991.0	99	90 - 110	2004-01-06

Standard (CCV-1) QC Batch: 6702

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1011	101	90 - 110	2004-01-06

Standard (CCV-1) QC Batch: 6712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000960	96	80 - 120	2004-01-07

Standard (CCV-2) QC Batch: 6712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000960	96	80 - 120	2004-01-07

Standard (CCV-1) QC Batch: 6735

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.9	98	80 - 120	2004-01-08
Acenaphthylene		mg/L	60.0	54.0	90	80 - 120	2004-01-08
Acenaphthene		mg/L	60.0	51.8	86	80 - 120	2004-01-08
Fluorene		mg/L	60.0	53.4	89	80 - 120	2004-01-08
Phenanthrene		mg/L	60.0	64.0	107	80 - 120	2004-01-08
Anthracene		mg/L	60.0	62.4	104	80 - 120	2004-01-08
Fluoranthene		mg/L	60.0	58.7	98	80 - 120	2004-01-08
Pyrene		mg/L	60.0	61.4	102	80 - 120	2004-01-08
Benzo(a)anthracene		mg/L	60.0	59.4	99	80 - 120	2004-01-08
Chrysene		mg/L	60.0	49.7	83	80 - 120	2004-01-08
Benzo(b)fluoranthene		mg/L	60.0	64.0	107	80 - 120	2004-01-08
Benzo(k)fluoranthene		mg/L	60.0	55.5	92	80 - 120	2004-01-08
Benzo(a)pyrene		mg/L	60.0	60.4	101	80 - 120	2004-01-08
Indeno(1,2,3-cd)pyrene		mg/L	60.0	57.1	95	80 - 120	2004-01-08
Dibenzo(a,h)anthracene		mg/L	60.0	50.0	83	80 - 120	2004-01-08
Benzo(g,h,i)perylene		mg/L	60.0	56.5	94	80 - 120	2004-01-08

continued ...

standard continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		69.4	mg/L	1	60.0	116	80 - 120
2-Fluorobiphenyl		65.0	mg/L	1	60.0	108	80 - 120
Terphenyl-d14		69.1	mg/L	1	60.0	115	80 - 120

Report Date: January 14, 2004
106.001

Work Order: 3123103
Jal Basin Station

Page Number: 17 of 17
2 miles south of Jal, NM on Hwy 18

SHELL OIL PRODUCTS US / MOTIVA Chain of Custody Record

3123103

TRACE ANALYSIS INC.
6701 Aberdeen Ave., Suite 9
Lubbock, TX 79424
800-378-1296 Fax 806-794-1298
Email Lab @ traceanalysis.com

Shell Project Manager to be invoiced:
☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON
Name: Ken Springer
Address: 777 Walker Street TSP 1206
City/Street: Houston TX Zip: 77002
Telephone: 713-241-9979 Email:

INCIDENT NUMBER (S&E ONLY): 3 0 0 1 4 3
SAP or CRMT NUMBER (TS/CRMT):
LAB ORDER ID:
LAB USE ONLY:
PAGE: of

CONSULTANT COMPANY: H2A Environmental
ADDRESS: 11999 Katy Freeway Suite 320
CITY: Houston TX 77043
TELEPHONE: 713-647-8167 FAX: 713-784-6064 EMAIL:

SITE NAME/ADDRESS (Street and City): Jal Station / Jal NM
PROJECT CONTACT (Report to): Monica Skanta
CONSULTANT PROJECT NO.:
SAMPLER NAME(S) (Print): John Savoie

TURNAROUND TIME (BUSINESS DAYS):
☐ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	[illegible]	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH [illegible]	TPH TX1005 Extended	PAH 8270C	Toxicity Characteristic Leaching Procedure	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	Total Cyanide	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Total Mercury 7470	Nitrate - Chloride	Sulfate - Fluoride	TDS	Turn Around Time if different from standard	Hold
24180	Effluent	6	2-1L 2-40 2-VOA	X				X	X		X	X		12-30-03	0900					X	X				X	X					X	X	X	X		
24181	LRP 1	1	1L			X						X		12-30-03	0810			X																		
24182	LRP 2	1	1L			X						X		12-30-03	0820			X																		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	12-30-03	1200			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Lem	Date: 12-31-03	Time: 10:45

LAB USE ONLY
Intact Y N
Headspace Y N
Temp 3°c
Log-In Review [signature]

REMARKS:

☐ Check If Dry Weight Reporting Is Required
☐ Check If Special Reporting Limits Are Needed ☐ Check If TRRP Reports Are Required

Carrier # FedEx 841816026263249

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

GROUND WATER MONITORING DATA SHEET

Job No. 106.001
Project Shell - Jal Basin Station

H2A ENVIRONMENTAL LTD

Date 3/22/2003
Field Tech. John Savoie

Well No.	PVC Elev.	GS Elev.	DTW		GW Elevation		Well Depth	Depth to LNAPL		LNAPL Elev.	LNAPL Thickness
			DTWgs	DTWpvc	Actual	Corrected		DTPgs	DTPpvc		
MW-1	2994.62	2992.30	92.83	95.15	2899.47	---	98.75	---		---	---
MW-2	2989.43	2987.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-3	2990.81	2987.91	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-4	2991.16	2988.22	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-5	2991.38	2988.47	89.34	92.25	2899.13	---	98.30	---		---	---
MW-6	2990.17	2987.40	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-8	2990.73	2987.97	92.59	95.35	2895.38	2898.60	NM	88.84	91.60	2899.13	3.75
MW-9	2990.31	2987.39	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	2990.84	2987.96	91.12	94.00	2896.84	2899.11	NM	88.47	91.35	2899.49	2.65
MW-11	2992.30	2989.37	90.47	93.40	2898.90	---	100.20	---		---	---
MW-12	2990.99	2987.79	92.90	96.10	2894.89	2898.32	NM	88.90	92.10	2898.89	4.00
MW-13	2992.97	2989.79	90.57	93.75	2899.22	---	100.60	---		---	---
MW-14	2989.12	2986.02	92.00	95.10	2894.02	2898.31	NM	87.00	90.10	2899.02	5.00
MW-15	2989.64	2986.45	87.91	91.10	2898.54	---	101.00	---		---	---
MW-16	2988.71	2985.80	88.29	91.20	2897.51	---	103.00	---		---	---
MW-17	2987.77	2985.09	88.72	91.40	2896.37	---	103.00	---		---	---
MW-18	2989.68	2987.16	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	2991.92	2988.86	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	2989.64	2987.22	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-21	2989.19	2986.63	88.74	91.30	2897.89	---	103.00	---		---	---
MW-22	2991.56	2989.24	92.58	94.90	2896.66	2898.93	NM	89.93	92.25	2899.31	2.65

Note :
1. All measurements are reported in feet unless otherwise indicated
2. The corrected ground water elevation was calculated using a specific gravity for LNAPL of : 0.86

Comments : NM indicates the parameter was not measured.
Monitoring/Recovery Wells MW-2, MW-3, MW-4, MW-6, MW-9, MW-18, MW-19, and MW-20 were pumping during this quarterly event.

GROUND WATER MONITORING DATA SHEET

Job No. 106.001
Project Shell - Jal Basin Station

H2A ENVIRONMENTAL LTD

Date 6/18/2003
Field Tech. John Savoie

Well No.	PVC Elev.	GS Elev.	DTW		GW Elevation		Well Depth	Depth to LNAPL		LNAPL Elev.	LNAPL Thickness
			DTWgs	DTWpvc	Actual	Corrected		DTPgs	DTPpvc		
MW-1	2994.62	2992.30	92.88	95.20	2899.42	---	98.75	---		---	---
MW-2	2989.43	2987.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-3	2990.81	2987.91	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-4	2991.16	2988.22	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-5	2991.38	2988.47	89.29	92.20	2899.18	---	98.30	---		---	---
MW-6	2990.17	2987.40	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-8	2990.73	2987.97	90.99	93.75	2896.98	2898.61	NM	89.09	91.85	2898.88	1.90
MW-9	2990.31	2987.39	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	2990.84	2987.96	91.12	94.00	2896.84	2899.07	NM	88.52	91.40	2899.44	2.60
MW-11	2992.30	2989.37	90.47	93.40	2898.90	---	100.20	---		---	---
MW-12	2990.99	2987.79	92.90	96.10	2894.89	2898.32	NM	88.90	92.10	2898.89	4.00
MW-13	2992.97	2989.79	90.72	93.90	2899.07	---	100.60	---		---	---
MW-14	2989.12	2986.02	89.20	92.30	2896.82	2898.45	NM	87.30	90.40	2898.72	1.90
MW-15	2989.64	2986.45	87.81	91.00	2898.64	---	101.00	---		---	---
MW-16	2988.71	2985.80	88.24	91.15	2897.56	---	103.00	---		---	---
MW-17	2987.77	2985.09	87.67	90.35	2897.42	---	103.00	---		---	---
MW-18	2989.68	2987.16	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	2991.92	2988.86	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	2989.64	2987.22	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-21	2989.19	2986.63	88.64	91.20	2897.99	---	103.00	---		---	---
MW-22	2991.56	2989.24	92.58	94.90	2896.66	2898.98	NM	89.88	92.20	2899.36	2.70

Note : 1. All measurements are reported in feet unless otherwise indicated

2. The corrected ground water elevation was calculated using a specific gravity for LNAPL of : 0.86

Comments : NM indicates the parameter was not measured.

Monitoring/Recovery Wells MW-2, MW-3, MW-4, MW-6, MW-9, MW-18, MW-19, and MW-20 were pumping during this quarterly event.

GROUND WATER MONITORING DATA SHEET

Job No. 106.001
Project Shell - Jal Basin Station

H2A ENVIRONMENTAL LTD

Date 9/22/2003
Field Tech. John Savoie

Well No.	PVC Elev.	GS Elev.	DTW		GW Elevation		Well Depth	Depth to LNAPL		LNAPL Elev.	LNAPL Thickness
			DTWgs	DTWpvc	Actual	Corrected		DTPgs	DTPpvc		
MW-1	2994.62	2992.30	93.13	95.45	2899.17	---	98.75	---		---	---
MW-2	2989.43	2987.02	87.89	90.30	2899.13	2899.17	NM	87.84	90.25	2899.18	0.05
MW-3	2990.81	2987.91	90.30	93.20	2897.61	2897.65	NM	90.25	93.15	2897.66	0.05
MW-4	2991.16	2988.22	90.46	93.40	2897.76	2897.78	NM	90.44	93.38	2897.78	0.02
MW-5	2991.38	2988.47	89.59	92.50	2898.88	---	98.30	---		---	---
MW-6	2990.17	2987.40	91.43	94.20	2895.97	2898.63	NM	88.33	91.10	2899.07	3.10
MW-8	2990.73	2987.97	91.44	94.20	2896.53	2898.59	NM	89.04	91.80	2898.93	2.40
MW-9	2990.31	2987.39	88.88	91.80	2898.51	2898.55	NM	88.83	91.75	2898.56	0.05
MW-10	2990.84	2987.96	91.27	94.15	2896.69	2898.75	NM	88.87	91.75	2899.09	2.40
MW-11	2992.30	2989.37	89.57	92.50	2899.80	---	100.20	---		---	---
MW-12	2990.99	2987.79	91.50	94.70	2896.29	2898.39	NM	89.05	92.25	2898.74	2.45
MW-13	2992.97	2989.79	90.92	94.10	2898.87	---	100.60	---		---	---
MW-14	2989.12	2986.02	91.40	94.50	2894.62	2898.27	NM	87.15	90.25	2898.87	4.25
MW-15	2989.64	2986.45	87.91	91.10	2898.54	---	101.00	---		---	---
MW-16	2988.71	2985.80	88.29	91.20	2897.51	---	103.00	---		---	---
MW-17	2987.77	2985.09	87.67	90.35	2897.42	---	103.00	---		---	---
MW-18	2989.68	2987.16	92.58	95.10	2894.58	2898.57	NM	87.93	90.45	2899.23	4.65
MW-19	2991.92	2988.86	91.24	94.30	2897.62	2899.04	NM	89.59	92.65	2899.27	1.65
MW-20	2989.64	2987.22	93.03	95.45	2894.19	2898.14	NM	88.43	90.85	2898.79	4.60
MW-21	2989.19	2986.63	88.89	91.45	2897.74	---	103.00	---		---	---
MW-22	2991.56	2989.24	93.13	95.45	2896.11	2898.86	NM	89.93	92.25	2899.31	3.20

Note :
1. All measurements are reported in feet unless otherwise indicated
2. The corrected ground water elevation was calculated using a specific gravity for LNAPL of : 0.86

Comments : NM indicates the parameter was not measured.
Monitoring/Recovery Wells MW-6, MW-18, MW-19, and MW-20 were pumping during this quarterly event.

GROUND WATER MONITORING DATA SHEET

Job No. 106.001
Project Shell - Jal Basin Station

Date 12/22/2003 - 12/23/2003
Field Tech. John Savoie

Well No.	PVC Elev.	GS Elev.	DTW		GW Elevation		Well Depth	Depth to LNAPL		LNAPL Elev.	LNAPL Thickness
			DTWgs	DTWpvc	Actual	Corrected		DTPgs	DTPpvc		
MW-1	2994.62	2992.30	93.33	95.65	2898.97	---	98.75	---		---	---
MW-2	2989.43	2987.02	88.34	90.75	2898.68	2898.72	NM	88.29	90.70	2898.73	0.05
MW-3	2990.81	2987.91	89.20	92.10	2898.71	2898.75	NM	89.15	92.05	2898.76	0.05
MW-4	2991.16	2988.22	89.51	92.45	2898.71	2898.75	NM	89.46	92.40	2898.76	0.05
MW-5	2991.38	2988.47	89.79	92.70	2898.68	---	98.30	---		---	---
MW-6	2990.17	2987.40	89.28	92.05	2898.12	2898.16	NM	89.23	92.00	2898.17	0.05
MW-8	2990.73	2987.97	92.79	95.55	2895.18	2898.31	NM	89.14	91.90	2898.83	3.65
MW-9	2990.31	2987.39	89.23	92.15	2898.16	2898.29	NM	89.08	92.00	2898.31	0.15
MW-10	2990.84	2987.96	91.22	94.10	2896.74	2898.71	NM	88.92	91.80	2899.04	2.30
MW-11	2992.30	2989.37	90.82	93.75	2898.55	---	100.20	---		---	---
MW-12	2990.99	2987.79	92.20	95.40	2895.59	2898.21	NM	89.15	92.35	2898.64	3.05
MW-13	2992.97	2989.79	91.12	94.30	2898.67	---	100.60	---		---	---
MW-14	2989.12	2986.02	91.90	95.00	2894.12	2897.85	NM	87.55	90.65	2898.47	4.35
MW-15	2989.64	2986.45	88.16	91.35	2898.29	---	101.00	---		---	---
MW-16	2988.71	2985.80	88.39	91.30	2897.41	---	103.00	---		---	---
MW-17	2987.77	2985.09	87.82	90.50	2897.27	---	103.00	---		---	---
MW-18	2989.68	2987.16	89.38	91.90	2897.78	2897.82	NM	89.33	91.85	2897.83	0.05
MW-19	2991.92	2988.86	89.61	92.67	2899.25	2899.27	NM	89.59	92.65	2899.27	0.02
MW-20	2989.64	2987.22	89.60	92.02	2897.62	2897.64	NM	89.58	92.00	2897.64	0.02
MW-21	2989.19	2986.63	88.99	91.55	2897.64	---	103.00	---		---	---
MW-22	2991.56	2989.24	93.23	95.55	2896.01	2898.67	NM	90.13	92.45	2899.11	3.10

Note :
1. All measurements are reported in feet unless otherwise indicated
2. The corrected ground water elevation was calculated using a specific gravity for LNAPL of : 0.86

Comments : NM indicates the parameter was not measured.
Monitoring/Recovery Wells MW-2, MW-3, MW-4, MW-6, MW-9, MW-18, MW-19 and MW-20 were pumping during this quarterly event.

E & E / ENVIRONMENTAL

Please Remit To:
P.O. Box 683
Brownfield, Texas 79316

For Service Call:
(806) 637-9336
(800) 658-2137

Please Pay From This CUSTOMER INVOICE #

11- 9235

Service Centers
BROWNFIELD TX / ABILENE TX / AMARILLO TX / CHILDRESS TX / ODESSA TX / OKLAHOMA CITY OK

Service Date	Customer PO Number	Customer Phone Number	Waste Manifest Document Number	Customer I.D. Number
3-20				

BILL TO ADDRESS	GENERATOR SITE LOCATION
Generator US EPA ID#	**Generator State ID#**

RECYCLING SERVICES

Description	Empty Containers		Quantity		Unit Charge	Line Total
Non-Hazardous Used Oil Filters						
Used Antifreeze / Glycol						
Non-Hazardous Used Oil						

G=GAL P=LBS. T=TON D=DRUM Y=YD OP=OVERPAC RO=ROLL-OFF **RECYCLING SERVICES SECTION TOTAL**

PARTS WASHERS

Machine Number	Svc. Charge	Cycle Week	Size	Gallons of Spent Solvent	Svc. Wk.	Unit Charge

Parts Washer Section Total

PAYMENT

Check Number — Total Received

Inv. # _____ Amount _____

Inv. # _____ Amount _____

Inv. # _____ Amount _____

TICKET TOTAL

SALES TAX

TOTAL DUE

GENERATOR CERTIFICATION I hereby declare that the contents of this consignment are full and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations.

Print Name of Generator	Signature of Generator	DATE
Print Name of Transporter	**Signature of Transporter**	**DATE**

Facility Certification of Receipt of Materials — **Designated Facility** — **E&E / ENVIRONMENTAL, Lubbock Hwy., Brownfield, TX**

Print Name of Facility Operator	Signature of Facility Operator	DATE

US EPA TRANSPORTER I.D. # TXD982756868 **US DOT I.D. # 374897**