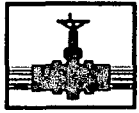


AP - 54

STAGE 1 & 2 REPORTS

DATE:

7-17-08



**PLAINS
PIPELINE**

RECEIVED

2008 JUL 21 PM 2 19

July 17, 2008

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline, L. P. Hobbs Junction Mainline Release Site
NMOCD Reference # AP-054
Unit Letter M of Section 26, Township 18 South, Range 37 East
Lea County, New Mexico

Dear Mr. Hansen,

Plains Pipeline, L. P. is pleased to submit the attached Quarterly Report, dated July 18, 2008, for the Hobbs Junction Mainline release site located in Section 26 of Township 18 South, and Range 37 East of Lea County, New Mexico. This document details soil and groundwater activities conducted in the first quarter of 2008.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Bryant
Remediation Coordinator
Plains Pipeline

CC: Larry Johnson, NMOCD, Hobbs Office

Enclosure



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JUL 21 PM 2 19

July 18, 2008

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921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

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Building C-100
Round Rock, Texas 78664
Phone 512.989.3428
Fax 512.989.3487

MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

SAN ANTONIO
17170 Jordan Road
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Selma, Texas 78154
Phone 210.579.0235
Fax 210.568.2191

TULSA
9906 East 43rd Street
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HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
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Mr. Edward Hansen
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline, L.P. Hobbs Junction Mainline (Plains SRS#2003-00017)
First Quarter 2008 Summary
NMOCD Reference # AP-054
UL-M (SW¼ of the SW¼) of Section 26, T18S, R37E
Latitude: 32° 42' 40.85"N and Longitude: 103° 13' 42.01"W
Landowner: State of New Mexico and Ms. Faye Klein
Lea County, New Mexico

Dear Mr. Hansen:

Talon/LPE on behalf of Plains Pipeline, L.P. (Plains) submits this letter summarizing the first quarter activities.

Five skimmer pumps and one total fluid pump were utilized to recover phase separated hydrocarbons (PSH) and inhibit migration of the PSH plume. The system is maintained weekly to optimize recovery rates. The skimmer and total fluid pumps are being effective in decreasing the PSH levels across the site. A frac tank is utilized to contain the purge water and PSH. The frac tank is gauged weekly to monitor PSH recovery. Accurate product volumes are determined when the PSH is removed via vacuum truck. A summary of the historical groundwater gauging data is provided in Table 1.

On March 11, 2008, a groundwater sampling event occurred. During the sampling event, groundwater samples from monitor wells MW-7 through MW-11, MW-13, MW-16, and MW-18 through MW-22 were submitted for quantification of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using SW-846 Method 8021B. Groundwater monitor wells MW-1 through MW-6, MW-14, MW-15, and MW-17 were not sampled due to the presence of PSH. Analytical results for the first quarter sampling event are summarized in Table 2 and Figure 3a. A groundwater gradient map is presented in Figure 2a.

Analytical results from the March 11, 2008 sampling event indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-10, MW-11, MW-16, and MW-20. Benzene concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.010 mg/L in monitor wells MW-10 (1.69 mg/L), MW-11 (24.7 mg/L), MW-16 (0.0124 mg/L), and MW-20 (38.9 mg/L).

On March 17, 2008, Plains installed monitor wells MW-23 and MW-24 to further delineate the extent of groundwater impact as requested by the New Mexico Oil Conservation Division (NMOCD). The BTEX and TPH concentrations, from soil



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samples collected from 5', 20', and 35' sampling intervals, were below NMOCD regulatory guidelines. Analytical results from the soil samples are summarized in Table 5.

Analytical results from the groundwater sampling event conducted on the newly installed monitor wells MW-23 and MW-24 indicated BTEX and polycyclic aromatic hydrocarbons (PAH) constituents below laboratory reporting limits. The analytical results for monitor wells MW-23 and MW-24 are summarized in Table 3.

The Eunice Water Well #6 was sampled per the request of Mr. Wayne Price, NMOCD, according to the email dated February 29, 2008. On March 31, 2008, Talon personnel met with the City of Eunice personnel to gain access to the Water Well #6. A groundwater sample was collected directly from the well. The Water Well #6 groundwater samples were submitted for quantification of Total Metals, Volatile Organic Compounds (VOC), Inorganic Contaminants (IOC), Secondaries (SEC), and benzo (a) pyrene. The analytical results indicate concentrations were below the regulatory guideline thresholds for all constituents sampled. Analytical results for the Eunice Water Well #6 sampling event are summarized in Table 4. A map showing the location of the Eunice water wells in reference to the Hobbs Junction Mainline site is included as Figure 2.

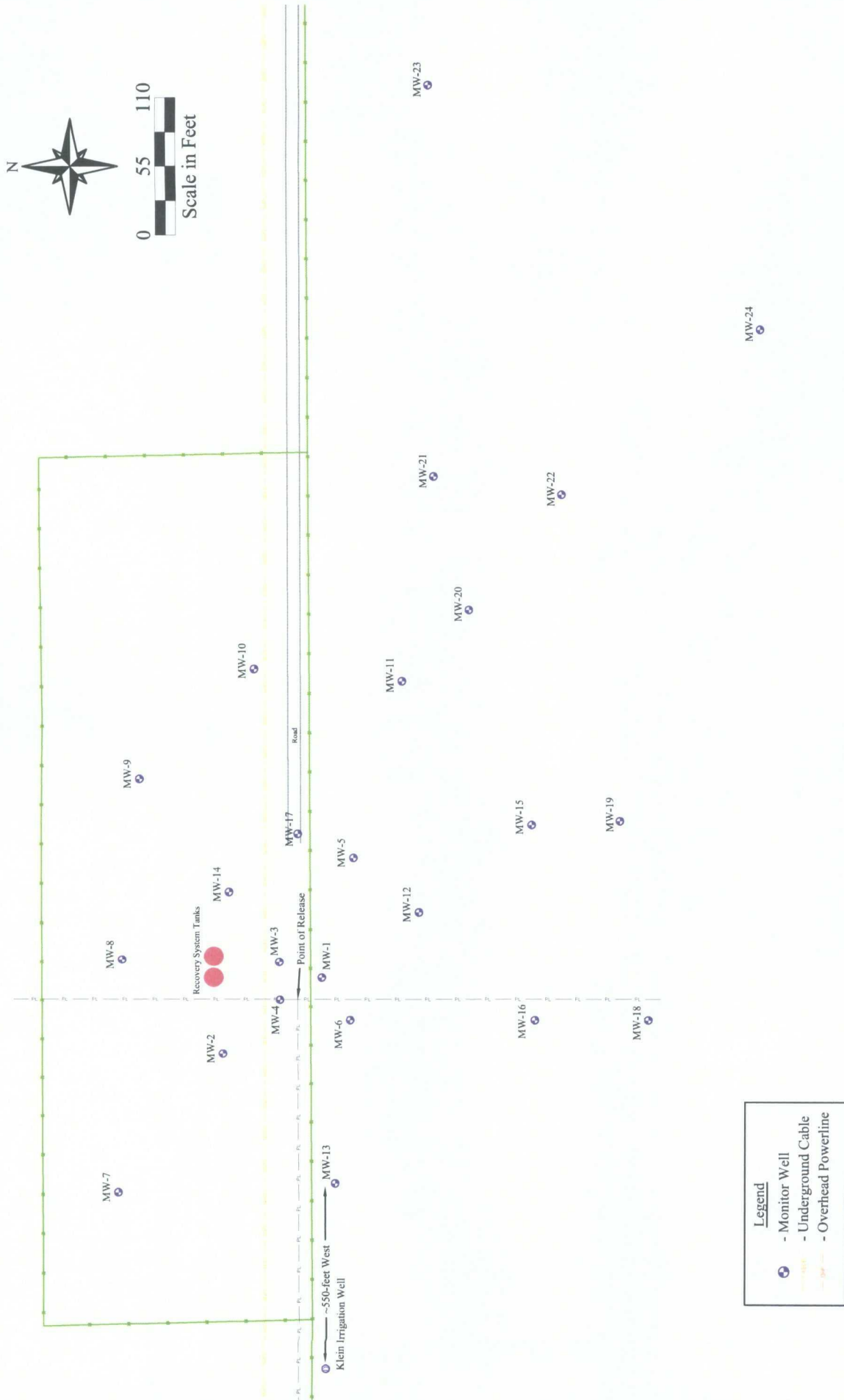
Due to an oversight during the initial sampling event conducted on monitor wells MW-23 and MW-24 (i.e. general chemistry and metals were not sampled), the general chemistry and metals parameters will be sampled from MW-23 and MW-24 during the next sampling event in June 2008.

If you have any questions or require further information, please contact me at (432) 522-2133 or Ms. Camille Bryant at (505) 441-0965.

Sincerely,

Shanna L. Smith
Project Manager

Enclosures



Hobbs Junction Mainline
 SRS # 2003-00017, NMOCD REF. # AP-054
 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
 Figure 1 - Site Plan

Date: 05/23/2008

Scale: 1" = 110'

Drawn By: SJA





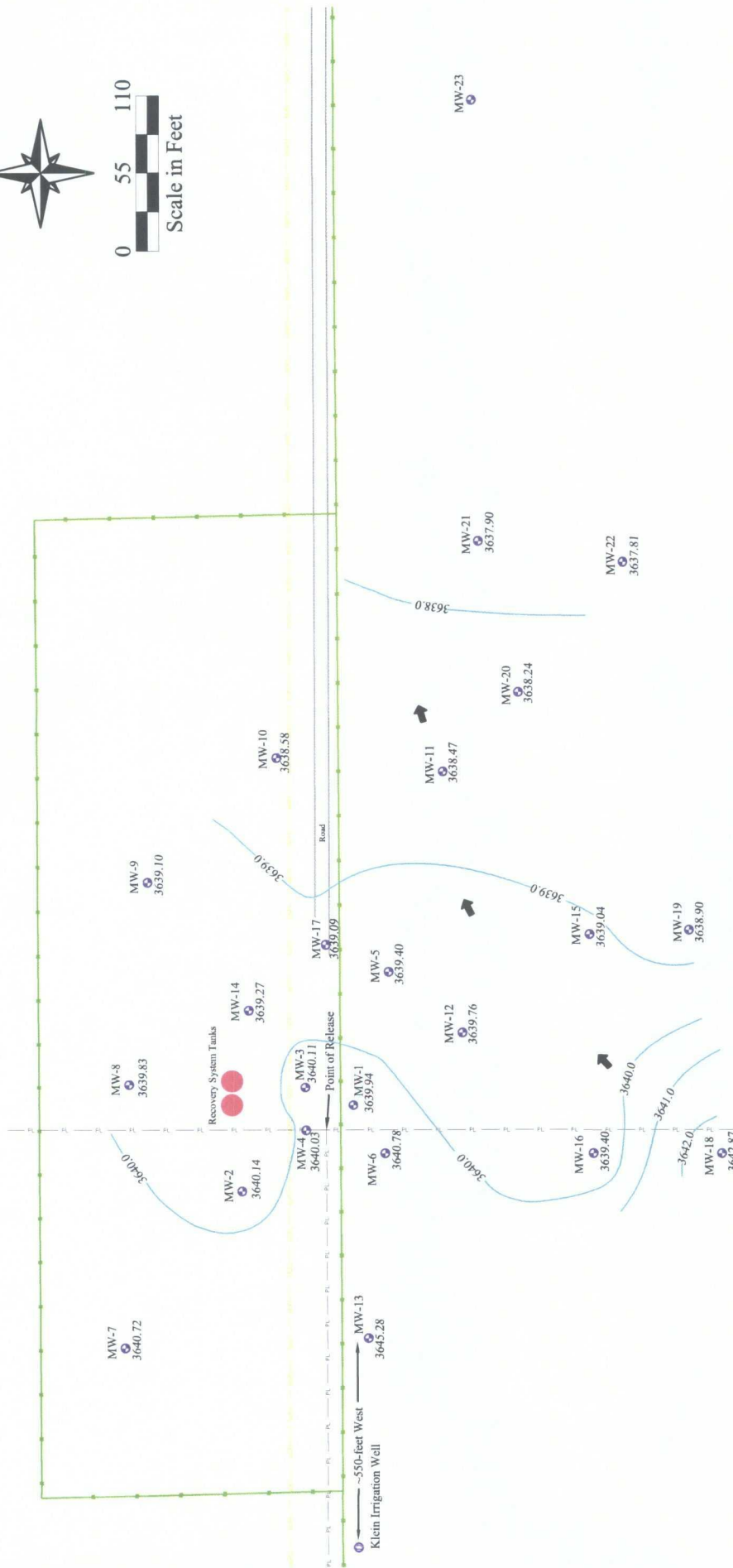
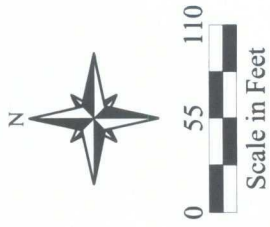
Hobbs Junction Mainline
 SRS # 2003-00017, NMOCD REF. # AP-054
 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
 Figure 2 - Eunice City Wells

Date: 07/17/2008

Scale: 1" = 1500'

Drawn By: SJA





Legend

- Monitor Well
 - Underground Cable
 - Overhead Powerline
 - Groundwater Gradient Contour Line
 - Groundwater Gradient Contour Elevation
 - Groundwater Flow Direction
- 983.49 - Groundwater Gradient Contour Elevation

Data not included for MW-23 and MW-24

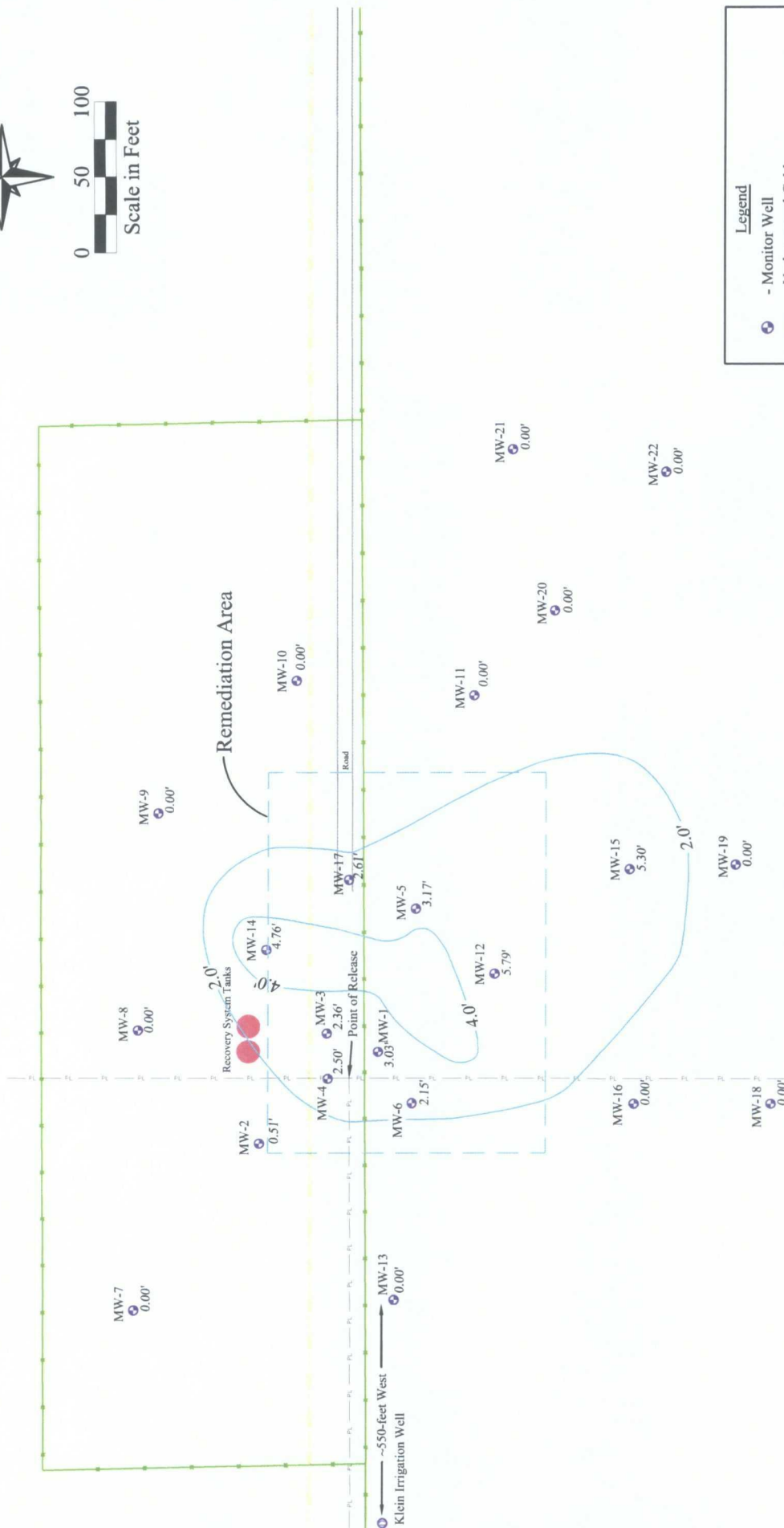
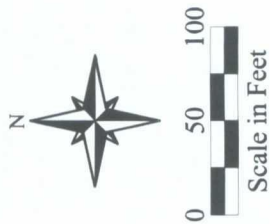


Date: 07/17/2008

Scale: 1" = 110'

Drawn By: SJA

Hobbs Junction Mainline
 SRS # 2003-00017, NMOCD REF. # AP-054
 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
 Figure 2a - Groundwater Gradient Map, (03/11/2008)



Data not included for MW-23 and MW-24



Date: 06/10/2008

Scale: 1" = 100'

Drawn By: SJA

Hobbs Junction Mainline

SRS # 2003-00017, NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (03/11/2008)



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-1	06/23/03	3,678.50	38.49	45.43	6.94		3,639.32
MW-1	06/25/03		38.48	45.43	6.95		3,639.33
MW-1	07/01/03		36.64	48.25	11.61		3,640.70
MW-1	07/07/03		38.73	45.55	6.82		3,639.09
MW-1	07/22/03		37.32	48.05	10.73		3,640.11
MW-1	07/23/03		37.33	48.06	10.73		3,640.10
MW-1	07/24/03		37.40	47.90	10.50		3,640.05
MW-1	07/30/03		37.41	47.90	10.49		3,640.04
MW-1	10/13/03		36.81	47.34	10.53		3,640.64
MW-1	12/11/03		37.79	46.85	9.06		3,639.80
MW-1	12/15/03		37.75	46.77	9.02		3,639.85
MW-1	02/18/04		38.42	47.64	9.22		3,639.16
MW-1	03/29/04		37.45	45.35	7.90		3,640.26
MW-1	04/29/04		38.26	42.18	3.92		3,639.85
MW-1	05/03/04		37.44	46.11	8.67		3,640.19
MW-1	07/12/04		38.34	45.66	7.32		3,639.43
MW-1	12/09/04		35.90	43.54	7.64		3,641.84
MW-1	02/16/05		35.15	42.54	7.39		3,642.61
MW-1	03/31/05		35.27	42.81	7.54		3,642.48
MW-1	05/13/05		35.31	42.60	7.29		3,642.46
MW-1	05/26/05		35.41	42.61	7.20		3,642.37
MW-1	06/28/05		35.48	42.65	7.17		3,642.30
MW-1	08/15/05		35.72	42.16	6.44		3,642.14
MW-1	11/14/05		36.26	41.80	5.54		3,641.69
MW-1	01/23/06		36.71	42.14	5.43		3,641.25
MW-1	03/02/06		36.36	41.41	5.05		3,641.64
MW-1	06/01/06		37.58	42.01	4.43		3,640.48
MW-1	08/14/06		37.63	43.68	6.05		3,640.27
MW-1	11/28/06		37.27	42.50	5.23		3,640.71
MW-1	12/12/06		37.25	41.49	4.24		3,640.83
MW-1	01/09/07		37.31	42.71	5.40		3,640.65
MW-1	02/08/07		37.25	42.78	5.53		3,640.70
MW-1	02/27/07		37.34	42.88	5.54	8.00	3,640.61
MW-1	03/09/07		37.30	42.74	5.44		3,640.66
MW-1	03/13/07		37.28	42.78	5.50	4.00	3,640.67
MW-1	03/15/07		37.31	42.79	5.48	4.00	3,640.64
MW-1	03/23/07		37.32	42.80	5.48		3,640.63
MW-1	03/28/07		37.30	42.78	5.48		3,640.65
MW-1	04/12/07		38.03	42.40	4.37		3,640.03
MW-1	04/18/07		37.47	42.61	5.14		3,640.52



TABLE 1
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PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-1	05/23/07		38.28	42.24	3.96		3,639.82
MW-1	06/20/07		37.90	41.74	3.84		3,640.22
MW-1	06/28/07		37.87	41.69	3.82		3,640.25
MW-1	07/18/07		37.95	41.63	3.68		3,640.18
MW-1	08/15/07		37.74	42.62	4.88		3,640.27
MW-1	08/22/07		38.41	39.20	0.79		3,640.01
MW-1	08/28/07		38.76	39.08	0.32		3,639.71
MW-1	09/19/07		37.99	40.99	3.00		3,640.21
MW-1	09/25/07		39.30	39.93	0.63		3,639.14
MW-1	10/09/07		38.52	38.90	0.38		3,639.94
MW-1	10/17/07		38.51	38.88	0.37		3,639.95
MW-1	10/26/07		38.49	38.91	0.42		3,639.97
MW-1	11/05/07		38.16	42.11	3.95		3,639.95
MW-1	11/12/07		38.51	38.96	0.45		3,639.95
MW-1	12/05/07		38.12	40.88	2.76		3,640.10
MW-1	01/03/08		38.12	41.04	2.92		3,640.09
MW-1	01/30/08		38.03	41.94	3.91		3,640.08
MW-1	02/04/08		38.02	41.97	3.95		3,640.09
MW-1	02/12/08		38.04	41.96	3.92		3,640.07
MW-1	03/11/08		38.26	41.29	3.03		3,639.94
MW-1	03/26/08		38.82	39.06	0.24		3,639.66
MW-2	06/26/03	3,679.47	38.72	44.93	6.21		3,640.13
MW-2	07/01/03		38.65	45.42	6.77		3,640.14
MW-2	07/22/03		38.63	45.63	7.00		3,640.14
MW-2	07/23/03		38.64	45.63	6.99		3,640.13
MW-2	07/24/03		39.20	43.57	4.37		3,639.83
MW-2	07/30/03		39.21	43.58	4.37		3,639.82
MW-2	12/11/03		38.88	45.51	6.63		3,639.93
MW-2	12/15/03		38.84	45.41	6.57		3,639.97
MW-2	03/23/04		38.36	44.52	6.16		3,640.49
MW-2	03/29/04		38.47	44.04	5.57		3,640.44
MW-2	04/29/04		38.16	48.06	9.90		3,640.32
MW-2	05/03/04		38.39	44.27	5.88		3,640.49
MW-2	07/12/04		39.42	44.67	5.25		3,639.53
MW-2	12/09/04		37.00	42.52	5.52		3,641.92
MW-2	02/16/05		36.87	44.03	7.16		3,641.88
MW-2	03/31/05		36.17	41.85	5.68		3,642.73
MW-2	05/13/05		36.27	42.10	5.83		3,642.62
MW-2	05/26/05		36.84	39.29	2.45		3,642.39



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-2	06/28/05		36.39	41.57	5.18		3,642.56
MW-2	08/15/05		37.15	38.92	1.77		3,642.14
MW-2	11/14/05		37.56	39.16	1.60		3,641.75
MW-2	01/23/06		38.01	39.54	1.53		3,641.31
MW-2	03/02/06		37.60	38.93	1.33		3,641.74
MW-2	06/01/06		38.48	41.05	2.57		3,640.73
MW-2	08/14/06		39.23	41.24	2.01		3,640.04
MW-2	11/28/06		38.33	40.73	2.40		3,640.90
MW-2	12/12/06		37.80	44.10	6.30		3,641.04
MW-2	01/09/07		38.20	42.21	4.01		3,640.87
MW-2	02/08/07		37.94	42.60	4.66		3,641.06
MW-2	02/27/07		38.15	43.34	5.19	8.00	3,640.80
MW-2	03/09/07		38.07	42.24	4.17		3,640.98
MW-2	03/13/07		38.07	42.32	4.25	3.50	3,640.98
MW-2	03/15/07		38.09	42.39	4.30	4.50	3,640.95
MW-2	03/23/07		38.16	42.00	3.84		3,640.93
MW-2	03/28/07		38.13	42.22	4.09		3,640.93
MW-2	04/12/07		38.51	41.93	3.42		3,640.62
MW-2	04/18/07		38.97	39.73	0.76		3,640.42
MW-2	05/23/07		38.98	39.50	0.52		3,640.44
MW-2	06/20/07		38.94	39.90	0.96		3,640.43
MW-2	06/28/07		38.66	40.88	2.22		3,640.59
MW-2	07/18/07		38.53	41.85	3.32		3,640.61
MW-2	08/15/07		38.50	42.11	3.61		3,640.61
MW-2	08/28/07		38.40	42.21	3.81		3,640.69
MW-2	09/19/07		38.41	42.18	3.77		3,640.68
MW-2	09/25/07		38.41	42.20	3.79		3,640.68
MW-2	10/09/07		38.86	40.37	1.51		3,640.46
MW-2	10/17/07		38.93	40.07	1.14		3,640.43
MW-2	10/26/07		38.68	41.27	2.59		3,640.53
MW-2	11/05/07		38.80	40.64	1.84		3,640.49
MW-2	11/12/07		38.91	40.23	1.32		3,640.43
MW-2	12/05/07		38.72	41.51	2.79		3,640.47
MW-2	01/03/08		39.87	41.11	1.24		3,639.48
MW-2	01/30/08		38.76	41.78	3.02		3,640.41
MW-2	02/04/08		38.81	41.82	3.01		3,640.36
MW-2	02/12/08		38.78	41.80	3.02		3,640.39
MW-2	03/11/08		39.28	39.79	0.51		3,640.14
MW-2	03/26/08		39.38	39.65	0.27		3,640.06



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-3	10/13/03	3,679.81	39.21	48.75	9.54		3,639.65
MW-3	12/11/03		39.15	48.95	9.80		3,639.68
MW-3	12/15/03		39.08	50.91	11.83		3,639.55
MW-3	02/18/04		38.72	48.26	9.54		3,640.14
MW-3	03/12/04		39.82	48.49	8.67		3,639.12
MW-3	03/29/04		38.81	46.32	7.51		3,640.25
MW-3	04/29/04		39.49	44.11	4.62		3,639.86
MW-3	05/03/04		38.77	46.51	7.74		3,640.27
MW-3	07/12/04		39.68	46.81	7.13		3,639.42
MW-3	12/09/04		37.21	45.06	7.85		3,641.82
MW-3	02/16/05		36.70	42.67	5.97		3,642.51
MW-3	03/31/05		38.17	38.20	0.03		3,641.64
MW-3	05/13/05		36.67	44.45	7.78		3,642.36
MW-3	05/26/05		36.92	42.88	5.96		3,642.29
MW-3	06/28/05		36.72	44.05	7.33		3,642.36
MW-3	08/15/05		37.12	43.17	6.05		3,642.09
MW-3	11/14/05		37.69	42.67	4.98		3,641.62
MW-3	01/23/06		38.08	43.31	5.23		3,641.21
MW-3	03/02/06		37.80	42.37	4.57		3,641.55
MW-3	06/01/06		38.50	42.53	4.03		3,640.91
MW-3	08/14/06		39.27	44.64	5.37		3,640.00
MW-3	11/28/06		38.61	43.75	5.14		3,640.69
MW-3	12/12/06		38.56	43.91	5.35		3,640.72
MW-3	01/09/07		38.36	43.21	4.85		3,640.97
MW-3	02/08/07		38.50	44.15	5.65		3,640.75
MW-3	02/27/07		38.67	44.25	5.58	9.00	3,640.58
MW-3	03/09/07		38.89	44.13	5.24		3,640.40
MW-3	03/13/07		38.58	44.19	5.61	4.50	3,640.67
MW-3	03/15/07		38.62	44.23	5.61	5.00	3,640.63
MW-3	03/23/07		38.61	44.12	5.51		3,640.65
MW-3	03/28/07		38.61	44.23	5.62		3,640.64
MW-3	04/12/07		39.88	39.93	0.05		3,639.93
MW-3	04/18/07		39.64	41.30	1.66		3,640.00
MW-3	05/23/07		39.96	40.32	0.36		3,639.81
MW-3	06/20/07		39.86	40.20	0.34		3,639.92
MW-3	06/28/07		39.86	40.12	0.26		3,639.92
MW-3	07/18/07		39.89	40.19	0.30		3,639.89
MW-3	08/15/07		39.12	43.68	4.56		3,640.23
MW-3	08/22/07		39.11	43.56	4.45		3,640.26
MW-3	08/28/07		39.30	43.09	3.79		3,640.13



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-3	09/19/07		39.12	43.20	4.08		3,640.28
MW-3	09/25/07		39.17	42.94	3.77		3,640.26
MW-3	10/09/07		39.07	41.74	2.67		3,640.47
MW-3	10/17/07		39.12	43.44	4.32		3,640.26
MW-3	10/26/07		39.24	42.99	3.75		3,640.20
MW-3	11/05/07		39.19	43.10	3.91		3,640.23
MW-3	11/12/07		39.90	40.21	0.31		3,639.88
MW-3	12/05/07		39.64	41.52	1.88		3,639.98
MW-3	01/03/08		39.68	41.72	2.04		3,639.93
MW-3	01/30/08		39.65	41.53	1.88		3,639.97
MW-3	02/04/08		39.70	41.59	1.89		3,639.92
MW-3	02/12/08		39.65	41.59	1.94		3,639.97
MW-3	03/11/08		39.46	41.82	2.36		3,640.11
MW-3	03/26/08		40.15	40.41	0.26		3,639.63
MW-4	10/13/03	3,679.64	39.01	48.75	9.74		3,639.66
MW-4	12/11/03		38.92	47.32	8.40		3,639.88
MW-4	12/15/03		38.84	47.16	8.32		3,639.97
MW-4	02/18/04		38.48	46.62	8.14		3,640.35
MW-4	03/12/04		39.09	47.51	8.42		3,639.71
MW-4	03/29/04		38.59	45.62	7.03		3,640.35
MW-4	04/29/04		39.94	44.23	4.29		3,639.27
MW-4	05/03/04		38.55	46.33	7.78		3,640.31
MW-4	07/12/04		39.49	46.24	6.75		3,639.48
MW-4	12/09/04		37.03	44.15	7.12		3,641.90
MW-4	02/16/05		36.28	43.01	6.73		3,642.69
MW-4	03/31/05		36.45	42.62	6.17		3,642.57
MW-4	05/13/05		36.37	43.25	6.88		3,642.58
MW-4	05/26/05		36.51	42.79	6.28		3,642.50
MW-4	06/28/05		36.47	43.26	6.79		3,642.49
MW-4	08/15/05		36.79	42.80	6.01		3,642.25
MW-4	11/14/05		37.35	42.24	4.89		3,641.80
MW-4	01/23/06		37.80	42.66	4.86		3,641.35
MW-4	03/02/06		37.43	41.97	4.54		3,641.76
MW-4	06/01/06		38.16	43.90	5.74		3,640.91
MW-4	08/14/06		39.01	44.12	5.11		3,640.12
MW-4	11/28/06		38.37	43.91	5.54		3,640.72
MW-4	12/12/06		38.35	43.06	4.71		3,640.82
MW-4	01/09/07		37.86	44.18	6.32		3,641.15
MW-4	02/08/07		38.28	44.93	6.65		3,640.70



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-4	02/27/07		38.40	44.38	5.98	9.00	3,640.64
MW-4	03/09/04		38.34	43.32	4.98		3,640.80
MW-4	03/13/07		38.34	43.35	5.01	3.50	3,640.80
MW-4	03/15/07		38.30	43.38	5.08	5.00	3,640.83
MW-4	03/23/07		38.38	43.37	4.99		3,640.76
MW-4	03/28/07		38.37	43.42	5.05		3,640.77
MW-4	04/12/07		38.71	42.96	4.25		3,640.51
MW-4	04/18/07		38.00	43.14	5.14		3,641.13
MW-4	05/23/07		39.87	42.73	2.86		3,639.48
MW-4	06/20/07		38.90	42.52	3.62		3,640.38
MW-4	06/28/07		38.92	42.34	3.42		3,640.38
MW-4	07/18/07		38.99	42.36	3.37		3,640.31
MW-4	08/15/07		39.00	42.33	3.33		3,640.31
MW-4	08/22/07		38.97	42.27	3.30		3,640.34
MW-4	08/28/07		39.12	41.89	2.77		3,640.24
MW-4	09/19/07		38.89	42.32	3.43		3,640.41
MW-4	09/25/07		39.07	41.64	2.57		3,640.31
MW-4	10/09/07		39.12	41.74	2.62		3,640.26
MW-4	10/17/07		39.12	41.66	2.54		3,640.27
MW-4	10/26/07		39.10	41.42	2.32		3,640.31
MW-4	11/05/07		38.94	42.60	3.66		3,640.33
MW-4	11/12/07		39.27	41.09	1.82		3,640.19
MW-4	12/05/07		39.04	41.98	2.94		3,640.31
MW-4	01/03/08		39.26	41.74	2.48		3,640.13
MW-4	01/30/08		39.08	41.55	2.47		3,640.31
MW-4	02/04/08		39.15	41.61	2.46		3,640.24
MW-4	02/12/08		39.10	41.62	2.52		3,640.29
MW-4	03/11/08		39.36	41.86	2.50		3,640.03
MW-4	03/26/08		39.18	42.99	3.81		3,640.08
MW-5	10/13/03	3,679.26	40.35	43.02	2.67		3,638.64
MW-5	12/11/03		38.95	47.81	8.86		3,639.42
MW-5	12/15/03		38.91	47.72	8.81		3,639.47
MW-5	02/18/04		38.61	47.44	8.83		3,639.77
MW-5	03/29/04		38.76	46.15	7.39		3,639.76
MW-5	04/29/04		38.55	47.41	8.86		3,639.82
MW-5	05/03/04		38.52	47.46	8.94		3,639.85
MW-5	07/12/04		39.24	47.72	8.48		3,639.17
MW-5	12/09/04		36.99	45.01	8.02		3,641.47
MW-5	02/16/05		36.24	44.48	8.24		3,642.20



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-5	02/22/05		36.20	44.50	8.30		3,642.23
MW-5	03/31/05		36.38	44.38	8.00		3,642.08
MW-5	05/13/05		36.43	44.29	7.86		3,642.04
MW-5	05/26/05		36.66	43.50	6.84		3,641.92
MW-5	06/28/05		36.58	44.45	7.87		3,641.89
MW-5	08/15/05		36.93	43.52	6.59		3,641.67
MW-5	11/14/05		37.45	43.27	5.82		3,641.23
MW-5	01/23/06		37.85	43.90	6.05		3,640.81
MW-5	03/02/06		37.46	43.41	5.95		3,641.21
MW-5	06/01/06		38.74	43.32	4.58		3,640.06
MW-5	08/14/06		38.92	45.05	6.13		3,639.73
MW-5	11/28/06		38.39	44.35	5.96		3,640.27
MW-5	12/12/06		38.32	44.91	6.59		3,640.28
MW-5	01/09/07		38.47	43.56	5.09		3,640.28
MW-5	02/08/07		38.28	44.42	6.14		3,640.37
MW-5	02/27/07		38.36	45.29	6.93	10.00	3,640.21
MW-5	03/09/07		38.44	45.22	6.78		3,640.14
MW-5	03/13/07		38.36	45.08	6.72	6.00	3,640.23
MW-5	03/15/07		38.37	45.09	6.72	5.00	3,640.22
MW-5	03/23/07		38.33	45.15	6.82		3,640.25
MW-5	03/28/07		38.35	45.17	6.82		3,640.23
MW-5	04/12/07		39.69	41.87	2.18		3,639.35
MW-5	04/18/07		40.31	42.84	2.53		3,638.70
MW-5	05/23/07		39.96	40.60	0.64		3,639.24
MW-5	06/20/07		39.38	42.16	2.78		3,639.60
MW-5	06/28/07		39.87	40.41	0.54		3,639.34
MW-5	07/18/07		39.95	40.35	0.40		3,639.27
MW-5	08/22/07		39.85	40.20	0.35		3,639.38
MW-5	08/28/07		39.20	42.98	3.78		3,639.68
MW-5	09/19/07		38.97	43.67	4.70		3,639.82
MW-5	09/25/07		39.14	42.87	3.73		3,639.75
MW-5	10/09/07		40.07	40.29	0.22		3,639.17
MW-5	10/17/07		39.01	43.06	4.05		3,639.85
MW-5	11/05/07		39.07	43.02	3.95		3,639.80
MW-5	12/05/07		39.13	42.26	3.13		3,639.82
MW-5	01/30/08		38.94	44.87	5.93		3,639.73
MW-5	02/04/08		39.05	44.96	5.91		3,639.62
MW-5	02/12/08		38.97	44.90	5.93		3,639.70
MW-5	03/11/08		39.54	42.71	3.17		3,639.40
MW-5	03/26/08		40.10	40.31	0.21		3,639.14



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-6	10/13/03	3,680.63	40.04	50.12	10.08		3,639.58
MW-6	12/11/03		40.01	48.43	8.42		3,639.78
MW-6	12/15/03		39.92	48.33	8.41		3,639.87
MW-6	02/18/04		39.63	47.81	8.18		3,640.18
MW-6	03/12/04		39.68	47.51	7.83		3,640.17
MW-6	03/29/04		39.67	46.50	6.83		3,640.28
MW-6	04/29/04		40.18	44.76	4.58		3,639.99
MW-6	05/03/04		39.66	46.63	6.97		3,640.27
MW-6	07/12/04		40.52	47.68	7.16		3,639.39
MW-6	12/09/04		38.11	45.06	6.95		3,641.83
MW-6	02/16/05		36.25	44.44	8.19		3,643.56
MW-6	02/22/05		37.25	44.44	7.19		3,642.66
MW-6	03/31/05		37.52	44.15	6.63		3,642.45
MW-6	05/13/05		37.46	44.75	7.29		3,642.44
MW-6	05/26/05		37.71	43.31	5.60		3,642.36
MW-6	06/28/05		37.62	44.18	6.56		3,642.35
MW-6	08/15/05		38.09	42.77	4.68		3,642.07
MW-6	11/14/05		38.64	43.31	4.67		3,641.52
MW-6	01/23/06		39.08	42.67	3.59		3,641.19
MW-6	03/02/06		38.85	41.45	2.60		3,641.52
MW-6	06/01/06		40.06	41.84	1.78		3,640.39
MW-6	08/14/06		40.19	44.64	4.45		3,640.00
MW-6	11/28/06		39.36	44.31	4.95		3,640.78
MW-6	12/12/06		39.32	43.81	4.49		3,640.86
MW-6	01/09/07		39.71	42.41	2.70		3,640.65
MW-6	02/08/07		39.30	44.49	5.19		3,640.81
MW-6	02/27/07		39.41	44.54	5.13	7.00	3,640.71
MW-6	03/09/07		39.40	44.47	5.07		3,640.72
MW-6	03/13/07		39.40	44.47	5.07	4.00	3,640.72
MW-6	03/15/07		39.40	44.50	5.10	4.50	3,640.72
MW-6	03/23/07		39.41	44.42	5.01		3,640.72
MW-6	03/28/07		39.45	44.80	5.35		3,640.65
MW-6	04/12/07		40.33	41.37	1.04		3,640.20
MW-6	04/18/07		40.61	40.83	0.22		3,640.00
MW-6	05/23/07		40.50	40.90	0.40		3,640.09
MW-6	06/20/07		40.58	41.25	0.67		3,639.98
MW-6	06/28/07		40.24	42.01	1.77		3,640.21
MW-6	07/18/07		39.94	43.74	3.80		3,640.31
MW-6	08/15/07		40.51	41.06	0.55		3,640.07



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-6	08/22/07		40.56	40.81	0.25		3,640.05
MW-6	08/28/07		40.30	42.31	2.01		3,640.13
MW-6	09/19/07		39.78	44.04	4.26		3,640.42
MW-6	09/25/07		39.84	44.15	4.31		3,640.36
MW-6	10/09/07		39.82	44.15	4.33		3,640.38
MW-6	10/17/07		40.55	40.83	0.28		3,640.05
MW-6	10/26/07		39.98	43.54	3.56		3,640.29
MW-6	11/05/07		39.88	43.98	4.10		3,640.34
MW-6	11/12/07		39.91	43.99	4.08		3,640.31
MW-6	12/05/07		39.98	43.97	3.99		3,640.25
MW-6	01/03/08		39.66	40.44	0.78		3,640.89
MW-6	01/30/08		40.11	43.81	3.70		3,640.15
MW-6	02/04/08		40.23	43.96	3.73		3,640.03
MW-6	02/12/08		40.15	43.90	3.75		3,640.11
MW-6	03/11/08		39.64	41.79	2.15		3,640.78
MW-6	03/26/08		40.38	43.19	2.81		3,639.97
MW-7	01/23/04	3,679.85		39.64			3,640.21
MW-7	04/29/04			39.29			3,640.56
MW-7	05/12/04			39.29			3,640.56
MW-7	06/03/04			39.27			3,640.58
MW-7	07/12/04			40.42			3,639.43
MW-7	07/19/04			40.68			3,639.17
MW-7	11/08/04			38.66			3,641.19
MW-7	03/31/05			37.07			3,642.78
MW-7	05/13/05			37.10			3,642.75
MW-7	05/23/05			37.09			3,642.76
MW-7	05/26/05			37.13			3,642.69
MW-7	06/28/05			37.16			3,642.69
MW-7	08/15/05			37.32			3,642.45
MW-7	08/17/05			37.26			3,642.59
MW-7	11/14/05			37.40			3,642.45
MW-7	01/23/06			38.12			3,641.73
MW-7	03/02/06			37.49			3,642.36
MW-7	06/01/06			38.40			3,641.45
MW-7	08/14/06			39.50			3,640.35
MW-7	11/28/06			38.61			3,641.24
MW-7	12/12/06			38.62			3,641.23
MW-7	01/09/07			38.22			3,641.63
MW-7	02/08/07			38.43			3,641.42



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
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NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-7	02/27/07			38.67			3,641.18
MW-7	03/09/07			38.67			3,641.18
MW-7	03/13/07			38.65			3,641.20
MW-7	03/15/07			38.64			3,641.21
MW-7	03/23/07			38.51			3,641.34
MW-7	03/28/07			38.60			3,641.25
MW-7	04/12/07			38.75			3,641.10
MW-7	04/18/07			38.73			3,641.12
MW-7	05/23/07			38.70			3,641.15
MW-7	06/20/07			38.81			3,641.04
MW-7	07/18/07			38.90			3,640.95
MW-7	09/19/07			38.87			3,640.98
MW-7	11/02/07			38.96			3,640.89
MW-7	11/16/07			38.90			3,640.95
MW-7	12/05/07			38.99			3,640.86
MW-7	01/30/08			39.03			3,640.82
MW-7	03/11/08			39.13			3,640.72
MW-8	01/23/04	3,679.07		39.56			3,639.51
MW-8	04/29/04			39.33			3,639.74
MW-8	05/12/04			39.34			3,639.73
MW-8	06/03/04			39.32			3,639.75
MW-8	07/12/04			40.13			3,638.94
MW-8	07/19/04			40.32			3,638.75
MW-8	11/08/04			39.60			3,639.47
MW-8	03/31/05			37.11			3,641.96
MW-8	05/13/05			37.16			3,641.91
MW-8	05/23/05			37.16			3,641.91
MW-8	05/26/05			37.19			3,641.88
MW-8	06/28/05			37.23			3,641.84
MW-8	08/15/05			37.40			3,641.67
MW-8	08/17/05			37.34			3,641.73
MW-8	11/14/05			37.52			3,641.55
MW-8	01/23/06			38.23			3,640.84
MW-8	03/02/06			37.63			3,641.44
MW-8	06/01/06			38.90			3,640.17
MW-8	08/14/06			39.34			3,639.73
MW-8	11/28/06			38.71			3,640.36
MW-8	12/12/06			38.73			3,640.34
MW-8	01/09/07			38.71			3,640.36



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-8	02/08/07			38.55			3,640.52
MW-8	02/21/07			38.78			3,640.29
MW-8	02/27/07			38.79			3,640.28
MW-8	03/09/07			38.78			3,640.29
MW-8	03/13/07			38.78			3,640.29
MW-8	03/15/07			38.76			3,640.31
MW-8	03/23/07			38.62			3,640.45
MW-8	03/28/07			38.74			3,640.33
MW-8	04/12/07			38.90			3,640.17
MW-8	04/18/07			38.88			3,640.19
MW-8	05/23/07			38.86			3,640.21
MW-8	06/20/07			38.96			3,640.11
MW-8	07/18/07			39.05			3,640.02
MW-8	09/19/07			38.99			3,640.08
MW-8	11/02/07			39.06			3,640.01
MW-8	11/16/07			39.06			3,640.01
MW-8	12/05/07			39.09			3,639.98
MW-8	01/30/08			39.11			3,639.96
MW-8	03/11/08			39.24			3,639.83
MW-9	01/23/04	3,678.76		39.91			3,638.85
MW-9	04/29/04			39.68			3,639.08
MW-9	05/12/04			39.69			3,639.07
MW-9	06/03/04			39.67			3,639.09
MW-9	07/12/04			40.34			3,638.42
MW-9	07/19/04			40.44			3,638.32
MW-9	11/08/04			38.84			3,639.92
MW-9	03/31/05			37.48			3,641.28
MW-9	05/13/05			37.54			3,641.22
MW-9	05/23/05			37.55			3,641.21
MW-9	05/26/05			37.59			3,641.17
MW-9	06/28/05			37.64			3,641.12
MW-9	08/15/05			37.82			3,640.94
MW-9	08/17/05			37.77			3,640.99
MW-9	11/14/05			37.95			3,640.81
MW-9	01/23/06			38.65			3,640.11
MW-9	03/02/06			38.05			3,640.71
MW-9	06/01/06			38.73			3,640.03
MW-9	08/14/06			39.57			3,639.19
MW-9	11/28/06			39.12			3,639.64



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-9	12/12/06			53.10			3,625.66
MW-9	01/09/07			39.14			3,639.62
MW-9	02/08/07			38.97			3,639.79
MW-9	02/21/07			39.22			3,639.54
MW-9	02/27/07			39.21			3,639.55
MW-9	03/09/07			39.21			3,639.55
MW-9	03/13/07			39.20			3,639.56
MW-9	03/15/07			39.20			3,639.56
MW-9	03/23/07			39.04			3,639.72
MW-9	03/28/07			39.16			3,639.60
MW-9	04/12/07			39.36			3,639.40
MW-9	04/18/07			39.30			3,639.46
MW-9	05/22/07			39.31			3,639.45
MW-9	06/20/07			39.40			3,639.36
MW-9	07/18/07			39.49			3,639.27
MW-9	09/19/07			39.45			3,639.31
MW-9	11/02/07			39.51			3,639.25
MW-9	11/16/07			39.48			3,639.28
MW-9	12/05/07			39.51			3,639.25
MW-9	01/30/08			39.54			3,639.22
MW-9	03/11/08			39.66			3,639.10
MW-10	01/23/04	3,678.36		39.89			3,638.47
MW-10	04/29/04			39.74			3,638.62
MW-10	05/12/04			39.74			3,638.62
MW-10	06/03/04			39.74			3,638.62
MW-10	07/12/04			40.24			3,638.12
MW-10	07/19/04			40.33			3,638.03
MW-10	11/08/04			38.76			3,639.60
MW-10	03/31/05			37.46			3,640.90
MW-10	05/13/05			37.58			3,640.78
MW-10	05/23/05			37.58			3,640.78
MW-10	05/26/05			37.62			3,640.74
MW-10	06/28/05			37.70			3,640.66
MW-10	08/15/05			37.87			3,640.49
MW-10	08/17/05			37.02			3,641.34
MW-10	11/14/05			38.02			3,640.34
MW-10	01/23/06			38.73			3,639.63
MW-10	03/02/06			38.16			3,640.20
MW-10	06/01/06			38.81			3,639.55



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-10	08/14/06			39.51			3,638.85
MW-10	11/28/06			39.19			3,639.17
MW-10	12/12/06			39.21			3,639.15
MW-10	01/09/07			39.21			3,639.15
MW-10	02/08/07			39.10			3,639.26
MW-10	02/21/07			39.33			3,639.03
MW-10	02/27/07			39.29			3,639.07
MW-10	03/09/07			39.24			3,639.12
MW-10	03/13/07			39.29			3,639.07
MW-10	03/15/07			39.30			3,639.06
MW-10	03/23/07			39.11			3,639.25
MW-10	03/28/07			39.24			3,639.12
MW-10	04/12/07			39.46			3,638.90
MW-10	04/18/07			39.41			3,638.95
MW-10	04/18/07			39.31			3,639.05
MW-10	06/20/07			39.48			3,638.88
MW-10	07/18/07			39.59			3,638.77
MW-10	09/19/07			39.51			3,638.85
MW-10	11/02/07			39.50			3,638.86
MW-10	11/16/07			39.91			3,638.45
MW-10	12/05/07			39.52			3,638.84
MW-10	01/30/08			39.57			3,638.79
MW-10	03/11/08			39.78			3,638.58
MW-11	01/23/04	3,678.03		41.40			3,636.63
MW-11	04/29/04			41.07			3,636.96
MW-11	05/12/04			39.57			3,638.46
MW-11	06/03/04			39.61			3,638.42
MW-11	07/12/04			40.04			3,637.99
MW-11	07/19/04			40.10			3,637.93
MW-11	11/08/04			38.66			3,639.37
MW-11	03/31/05			37.25			3,640.78
MW-11	05/13/05			37.40			3,640.63
MW-11	05/23/05			37.34			3,640.69
MW-11	05/26/05			31.45			3,646.58
MW-11	06/28/05			37.54			3,640.49
MW-11	08/15/05			37.60			3,640.43
MW-11	08/17/05			37.61			3,640.42
MW-11	11/14/05			37.80			3,640.23
MW-11	01/23/06			38.58			3,639.45



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-11	03/02/06			37.97			3,640.06
MW-11	06/01/06			39.15			3,638.88
MW-11	08/14/06			39.33			3,638.70
MW-11	11/28/06			39.00			3,639.03
MW-11	12/12/06			39.06			3,638.97
MW-11	01/09/07			39.06			3,638.97
MW-11	02/08/07			38.91			3,639.12
MW-11	02/21/07			39.11			3,638.92
MW-11	02/27/07			44.87			3,633.16
MW-11	03/09/07			39.17			3,638.86
MW-11	03/13/07			39.13			3,638.90
MW-11	03/15/07			39.16			3,638.87
MW-11	03/23/07			39.01			3,639.02
MW-11	03/28/07			39.05			3,638.98
MW-11	04/12/07			39.34			3,638.69
MW-11	04/18/07			39.25			3,638.78
MW-11	05/22/07			39.24			3,638.79
MW-11	06/20/07			39.30			3,638.73
MW-11	07/18/07			39.42			3,638.61
MW-11	09/19/07			39.55			3,638.48
MW-11	11/02/07			39.37			3,638.66
MW-11	11/16/07			39.46			3,638.57
MW-11	12/05/07			39.47			3,638.56
MW-11	01/30/08			39.51			3,638.52
MW-11	03/11/08			39.56			3,638.47
MW-12	01/23/04	3,679.63	39.49	45.30	5.81		3,639.56
MW-12	03/23/04		38.89	47.39	8.50		3,639.89
MW-12	03/29/04		38.86	47.33	8.47		3,639.92
MW-12	04/29/04		38.86	48.57	9.71		3,639.80
MW-12	05/03/04		38.83	46.63	7.80		3,640.02
MW-12	07/12/04		39.58	47.53	7.95		3,639.26
MW-12	12/09/04		37.50	44.28	6.78		3,641.45
MW-12	02/16/05		36.68	43.87	7.19		3,642.23
MW-12	03/31/05		36.95	42.97	6.02		3,642.08
MW-12	05/13/05		36.83	43.97	7.14		3,642.09
MW-12	05/26/05		36.95	43.71	6.76		3,642.00
MW-12	06/28/05		36.97	44.14	7.17		3,641.94
MW-12	08/15/05		37.25	43.60	6.35		3,641.75
MW-12	11/14/05		37.73	43.51	5.78		3,641.32



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-12	01/23/06		38.08	44.34	6.26		3,640.92
MW-12	03/02/06		37.71	43.82	6.11		3,641.31
MW-12	06/01/06		38.87	44.25	5.38		3,640.22
MW-12	08/14/06		39.11	45.85	6.74		3,639.85
MW-12	11/28/06		38.64	44.91	6.27		3,640.36
MW-12	12/12/06		38.63	44.92	6.29		3,640.37
MW-12	01/09/07		38.41	44.87	6.46		3,640.57
MW-12	02/08/07		nd	42.02	na		3,636.01
MW-12	03/09/07		38.67	45.13	6.46		3,640.31
MW-12	03/13/07		38.64	45.14	6.50	7.00	3,640.34
MW-12	03/15/07		38.64	45.16	6.52	6.00	3,640.34
MW-12	03/23/07		38.68	45.14	6.46		3,640.30
MW-12	03/28/07		38.68	45.19	6.51		3,640.30
MW-12	04/12/07		39.22	44.25	5.03		3,639.91
MW-12	04/18/07		39.96	44.68	4.72		3,639.20
MW-12	05/22/07		39.51	43.75	4.24		3,639.70
MW-12	06/20/07		39.42	43.40	3.98		3,639.81
MW-12	06/28/07		39.47	43.06	3.59		3,639.80
MW-12	07/18/07		39.65	42.80	3.15		3,639.67
MW-12	08/15/07		39.27	43.96	4.69		3,639.89
MW-12	08/22/07		39.50	42.90	3.40		3,639.79
MW-12	08/28/07		39.78	42.04	2.26		3,639.62
MW-12	09/19/07		39.39	43.31	3.92		3,639.85
MW-12	09/25/07		39.29	43.67	4.38		3,639.90
MW-12	10/09/07		39.14	44.79	5.65		3,639.93
MW-12	10/17/07		39.57	42.72	3.15		3,639.75
MW-12	10/26/07		39.21	41.22	2.01		3,640.22
MW-12	11/05/07		39.13	44.61	5.48		3,639.95
MW-12	11/12/07		39.33	44.70	5.37		3,639.76
MW-12	12/05/07		39.34	44.87	5.53		3,639.74
MW-12	01/03/08		39.37	44.14	4.77		3,639.78
MW-12	01/30/08		38.29	44.71	6.42		3,640.70
MW-12	02/04/08		38.35	44.81	6.46		3,640.63
MW-12	02/12/08		38.30	44.75	6.45		3,640.69
MW-12	03/11/08		39.29	45.08	5.79		3,639.76
MW-12	03/26/08		39.44	44.43	4.99		3,639.69
MW-13	01/23/04	3,681.42		39.67			3,641.75
MW-13	04/29/04			39.58			3,641.84
MW-13	05/12/04			41.05			3,640.37



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-13	06/03/04			41.05			3,640.37
MW-13	07/12/04			42.18			3,639.24
MW-13	07/19/04			42.44			3,638.98
MW-13	11/08/04			40.24			3,641.18
MW-13	03/31/05			38.79			3,642.63
MW-13	05/13/05			38.83			3,642.59
MW-13	05/23/05			38.82			3,642.60
MW-13	05/26/05			38.87			3,642.55
MW-13	06/28/05			38.63			3,642.79
MW-13	08/15/05			39.07			3,642.35
MW-13	08/17/05			39.02			3,642.40
MW-13	11/14/05			39.15			3,642.27
MW-13	01/23/06			39.84			3,641.58
MW-13	03/02/06			39.28			3,642.14
MW-13	06/01/06			40.73			3,640.69
MW-13	08/14/06			41.22			3,640.20
MW-13	11/28/06			40.38			3,641.04
MW-13	12/12/06			40.37			3,641.05
MW-13	01/09/07			40.36			3,641.06
MW-13	02/08/07			42.02			3,639.40
MW-13	02/27/07			40.41			3,641.01
MW-13	03/09/07			40.42			3,641.00
MW-13	03/13/07			40.42			3,641.00
MW-13	03/15/07			40.44			3,640.98
MW-13	03/23/07			40.25			3,641.17
MW-13	03/28/07			40.35			3,641.07
MW-13	04/12/07			40.55			3,640.87
MW-13	04/18/07			40.48			3,640.94
MW-13	05/23/07			40.48			3,640.94
MW-13	06/20/07			40.60			3,640.82
MW-13	07/18/07			40.68			3,640.74
MW-13	09/19/07			39.55			3,641.87
MW-13	11/02/07			40.58			3,640.84
MW-13	11/16/07			40.43			3,640.99
MW-13	12/05/07			40.75			3,640.67
MW-13	01/30/08			40.78			3,640.64
MW-13	03/11/08			36.14			3,645.28
MW-14	06/03/04	3,679.00	39.16	42.87	3.71		3,639.47
MW-14	07/12/04		39.29	46.46	7.17		3,638.99



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-14	07/19/04		39.45	46.59	7.14		3,638.84
MW-14	08/26/04		38.92	45.94	7.02		3,639.38
MW-14	12/09/04		37.11	43.08	5.97		3,641.29
MW-14	02/16/05		36.62	42.53	5.91		3,641.79
MW-14	03/31/05		36.34	43.32	6.98		3,641.96
MW-14	05/13/05		36.45	43.34	6.89		3,641.86
MW-14	05/26/05		36.48	45.27	8.79		3,641.64
MW-14	06/28/05		36.54	44.83	8.29		3,641.63
MW-14	08/15/05		37.14	41.59	4.45		3,641.42
MW-14	11/14/05		37.55	41.70	4.15		3,641.04
MW-14	01/23/06		37.85	42.74	4.89		3,640.66
MW-14	03/02/06		37.58	41.71	4.13		3,641.01
MW-14	06/01/06		38.84	41.75	2.91		3,639.87
MW-14	08/14/06		0.00	39.00	39.00		3,675.10
MW-14	11/28/06		38.30	43.55	5.25		3,640.18
MW-14	12/12/06		38.24	44.02	5.78		3,640.18
MW-14	01/09/07		38.21	42.26	4.05		3,640.39
MW-14	02/08/07		38.18	44.27	6.09		3,640.21
MW-14	02/27/07		38.26	44.32	6.06	9.00	3,640.13
MW-14	03/09/07		38.27	44.41	6.14		3,640.12
MW-14	03/13/07		38.20	44.21	6.01		3,640.20
MW-14	03/15/07		38.22	44.20	5.98	6.00	3,640.18
MW-14	03/23/07		38.28	44.22	5.94		3,640.13
MW-14	03/28/07		38.25	44.27	6.02		3,640.15
MW-14	04/12/07		39.41	40.64	1.23		3,639.47
MW-14	04/18/07		39.69	40.01	0.32		3,639.28
MW-14	05/23/07		39.71	40.02	0.31		3,639.26
MW-14	06/20/07		38.96	41.88	2.92		3,639.75
MW-14	06/28/07		39.05	41.85	2.80		3,639.67
MW-14	07/18/07		39.58	39.91	0.33		3,639.39
MW-14	08/15/07		39.63	39.87	0.24		3,639.35
MW-14	08/22/07		39.54	40.15	0.61		3,639.40
MW-14	08/28/07		39.39	41.62	2.23		3,639.39
MW-14	09/19/07		39.07	41.79	2.72		3,639.66
MW-14	09/25/07		39.34	40.94	1.60		3,639.50
MW-14	10/09/07		39.44	41.15	1.71		3,639.39
MW-14	10/17/07		39.61	39.80	0.19		3,639.37
MW-14	10/26/07		39.56	39.88	0.32		3,639.41
MW-14	11/05/07		39.08	42.21	3.13		3,639.61
MW-14	11/12/07		38.95	43.05	4.10		3,639.64



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-14	12/05/07		38.99	43.75	4.76		3,639.53
MW-14	01/03/08		38.94	43.60	4.66		3,639.59
MW-14	01/30/08		39.03	43.88	4.85		3,639.49
MW-14	02/04/08		39.19	44.12	4.93		3,639.32
MW-14	02/12/08		39.06	43.91	4.85		3,639.46
MW-14	03/11/08		39.56	41.27	1.71		3,639.27
MW-14	03/26/08		39.94	40.14	0.20		3,639.04
MW-15	06/03/04	3,674.92		36.22			3,638.70
MW-15	07/12/04			36.77			3,638.15
MW-15	07/19/04			36.90			3,638.02
MW-15	11/08/04			35.10			3,639.82
MW-15	03/31/05			33.92			3,641.00
MW-15	05/13/05			34.00			3,640.92
MW-15	05/23/05			35.34			3,639.58
MW-15	05/26/05			35.38			3,639.54
MW-15	06/28/05			35.46			3,639.46
MW-15	08/15/05			34.32			3,640.60
MW-15	08/17/05			34.29			3,640.63
MW-15	11/14/05			34.47			3,640.45
MW-15	01/23/06			35.17			3,639.75
MW-15	03/02/06			34.60			3,640.32
MW-15	06/01/06			37.18			3,637.74
MW-15	08/10/06			35.62			3,639.30
MW-15	11/28/06			35.63			3,639.29
MW-15	12/12/06			36.92			3,638.00
MW-15	01/09/07			36.93			3,637.99
MW-15	02/27/07		35.16	35.67	0.51	10.00	3,639.71
MW-15	03/09/07		35.16	35.92	0.76		3,639.68
MW-15	03/13/07		35.65	36.01	0.36		3,639.23
MW-15	03/15/07		35.64	36.20	0.56		3,639.22
MW-15	03/23/07		35.68	36.14	0.46		3,639.19
MW-15	03/28/07		35.70	36.21	0.51		3,639.17
MW-15	04/12/07		35.75	36.51	0.76		3,639.09
MW-15	04/18/07		35.70	36.46	0.76		3,639.14
MW-15	05/22/07		35.70	37.04	1.34		3,639.09
MW-15	06/20/07		35.90	37.52	1.62		3,638.86
MW-15	07/18/07		35.60	38.10	2.50		3,639.07
MW-15	08/15/07		35.47	38.56	3.09		3,639.14
MW-15	08/22/07		35.48	38.58	3.10		3,639.13



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-15	08/28/07		35.59	38.15	2.56		3,639.07
MW-15	09/19/07		35.78	36.98	1.20		3,639.02
MW-15	09/25/07		36.43	37.27	0.84		3,638.41
MW-15	10/09/07		35.61	37.99	2.38		3,639.07
MW-15	10/17/07		35.49	38.36	2.87		3,639.14
MW-15	10/26/07		35.47	38.71	3.24		3,639.13
MW-15	11/05/07		35.46	39.89	4.43		3,639.02
MW-15	11/12/07		35.37	39.18	3.81		3,639.17
MW-15	12/05/07		35.31	39.75	4.44		3,639.17
MW-15	01/03/08		35.31	40.26	4.95		3,639.12
MW-15	01/30/08		35.27	40.47	5.20		3,639.13
MW-15	02/04/08		35.33	40.60	5.27		3,639.06
MW-15	02/12/08		35.28	40.48	5.20		3,639.12
MW-15	03/11/08		35.35	40.65	5.30		3,639.04
MW-15	03/26/08		35.40	40.71	5.31		3,638.99
MW-16	06/03/04	3,676.86		37.66			3,639.20
MW-16	07/12/04			38.35			3,638.51
MW-16	07/19/04			38.57			3,638.29
MW-16	11/08/04			36.38			3,640.48
MW-16	03/31/05			35.29			3,641.57
MW-16	05/13/05			35.31			3,641.55
MW-16	05/23/05			35.18			3,641.68
MW-16	05/26/05			34.04			3,642.82
MW-16	06/28/05			34.11			3,642.75
MW-16	08/15/05			35.61			3,641.25
MW-16	08/17/05			35.56			3,641.30
MW-16	11/14/05			35.73			3,641.13
MW-16	01/23/06			36.45			3,640.41
MW-16	03/02/06			35.85			3,641.01
MW-16	06/01/06			35.82			3,641.04
MW-16	08/14/06			37.50			3,639.36
MW-16	11/28/06			37.94			3,638.92
MW-16	12/12/06			35.65			3,641.21
MW-16	01/09/07			35.67			3,641.19
MW-16	03/09/07			36.00			3,640.86
MW-16	03/13/07			36.98			3,639.88
MW-16	03/15/07			36.96			3,639.90
MW-16	03/23/07			36.84			3,640.02
MW-16	03/28/07			36.96			3,639.90



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-16	04/12/07			37.14			3,639.72
MW-16	04/18/07			37.03			3,639.83
MW-16	05/23/07			37.08			3,639.78
MW-16	06/20/07			37.16			3,639.70
MW-16	07/18/07			37.28			3,639.58
MW-16	09/19/07			37.27			3,639.59
MW-16	11/02/07			37.30			3,639.56
MW-16	11/16/07			37.32			3,639.54
MW-16	12/05/07			37.36			3,639.50
MW-16	01/30/08			37.38			3,639.48
MW-16	03/11/08			37.46			3,639.40
MW-17	06/03/04	3,679.01	39.66	42.05	2.39		3,639.11
MW-17	07/12/04		39.39	46.94	7.55		3,638.87
MW-17	07/19/04		39.50	46.97	7.47		3,638.76
MW-17	08/26/04		39.04	46.59	7.55		3,639.22
MW-17	12/09/04		37.11	44.60	7.49		3,641.15
MW-17	02/16/05		37.00	41.07	4.07		3,641.60
MW-17	03/31/05		36.49	44.13	7.64		3,641.76
MW-17	05/13/05		36.52	44.24	7.72		3,641.72
MW-17	05/26/05		36.72	44.28	7.56		3,641.53
MW-17	06/28/05		36.95	44.76	7.81		3,641.28
MW-17	08/15/05		37.25	42.35	5.10		3,641.25
MW-17	11/14/05		37.69	42.33	4.64		3,640.86
MW-17	01/23/06		38.15	43.41	5.26		3,640.33
MW-17	03/02/06		37.59	43.25	5.66		3,640.85
MW-17	06/01/06		38.95	42.48	3.53		3,639.71
MW-17	08/14/06		39.10	44.41	5.31		3,639.38
MW-17	11/28/06		38.49	44.04	5.55		3,639.97
MW-17	12/12/06		38.42	44.33	5.91		3,640.00
MW-17	01/09/07		38.42	43.07	4.65		3,640.13
MW-17	02/08/07		38.38	44.95	6.57		3,639.97
MW-17	02/27/07		38.51	45.22	6.71	11.00	3,639.83
MW-17	03/09/07		38.41	45.11	6.70		3,639.93
MW-17	03/13/07		38.39	45.02	6.63		3,639.96
MW-17	03/15/07		38.41	45.01	6.60	6.00	3,639.94
MW-17	03/23/07		38.43	45.11	6.68		3,639.91
MW-17	03/28/07		38.43	45.26	6.83		3,639.90
MW-17	04/12/07		39.06	43.82	4.76		3,639.47
MW-17	04/18/07		39.13	44.32	5.19		3,639.36



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-17	05/23/07		39.41	43.65	4.24		3,639.18
MW-17	06/20/07		39.52	41.72	2.20		3,639.27
MW-17	06/28/07		39.79	40.75	0.96		3,639.12
MW-17	07/18/07		39.82	40.81	0.99		3,639.09
MW-17	08/15/07		39.92	40.18	0.26		3,639.06
MW-17	08/22/07		39.87	40.17	0.30		3,639.11
MW-17	08/28/07		39.90	40.39	0.49		3,639.06
MW-17	09/25/07		39.78	40.17	0.39		3,639.19
MW-17	10/09/07		39.92	40.38	0.46		3,639.04
MW-17	10/17/07		39.83	40.17	0.34		3,639.15
MW-17	10/26/07		39.91	40.03	0.12		3,639.09
MW-17	11/05/07		39.17	43.19	4.02		3,639.44
MW-17	11/12/07		39.89	40.04	0.15		3,639.11
MW-17	12/05/07		39.75	41.97	2.22		3,639.04
MW-17	01/03/08		39.50	42.39	2.89		3,639.22
MW-17	01/30/08		39.10	44.36	5.26		3,639.38
MW-17	02/04/08		39.21	44.44	5.23		3,639.28
MW-17	02/12/08		39.14	44.38	5.24		3,639.35
MW-17	03/11/08		39.66	42.27	2.61		3,639.09
MW-17	03/26/08		40.22	40.39	0.17		3,638.77
MW-18	11/28/06			35.64			
MW-18	12/12/06			35.65			
MW-18	01/09/07			35.62			
MW-18	02/08/07			35.50			
MW-18	03/09/07			35.70			
MW-18	03/13/07			35.71			
MW-18	03/15/07			35.70			
MW-18	03/23/07			35.57			
MW-18	03/28/07			36.65			
MW-18	04/12/07			35.83			
MW-18	04/18/07			35.84			
MW-18	05/22/07			35.86			
MW-18	06/20/07			35.86			
MW-18	07/18/07			35.98			
MW-18	09/19/07	3,679.01		35.94			3,643.07
MW-18	11/02/07			35.97			3,643.04
MW-18	12/05/07			36.04			3,642.97
MW-18	01/30/08			36.08			3,642.93
MW-18	03/11/08			36.14			3,642.87



TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-19	11/28/06			35.55			
MW-19	12/12/06			35.55			
MW-19	01/09/07			35.57			
MW-19	02/08/07			35.43			
MW-19	03/09/07			35.65			
MW-19	03/13/07			35.65			
MW-19	03/15/07			35.66			
MW-19	03/23/07			35.48			
MW-19	03/28/07			35.54			
MW-19	04/12/07			35.77			
MW-19	04/18/07			35.72			
MW-19	05/23/07			35.71			
MW-19	06/20/07			35.81			
MW-19	07/18/07			35.90			
MW-19	09/19/07	3,674.96		35.87			3,639.09
MW-19	11/02/07			35.90			3,639.06
MW-19	11/16/07			35.96			3,639.00
MW-19	12/05/07			36.56			3,638.40
MW-19	01/30/08			36.59			3,638.37
MW-19	03/11/08			36.06			3,638.90
MW-20	11/28/06			35.61			
MW-20	12/12/06			35.63			
MW-20	01/09/07			35.67			
MW-20	02/08/07			35.53			
MW-20	03/09/07			35.75			
MW-20	03/13/07			35.73			
MW-20	03/15/07			35.70			
MW-20	03/23/07			35.60			
MW-20	03/28/07			35.67			
MW-20	04/12/07			35.87			
MW-20	04/18/07			35.81			
MW-20	05/23/07			35.80			
MW-20	06/20/07			35.90			
MW-20	07/18/07			36.01			
MW-20	09/19/07	3,674.38		35.99			3,638.39
MW-20	11/02/07			36.01			3,638.37
MW-20	12/05/07			35.97			3,638.41
MW-20	01/30/08			36.01			3,638.37

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-20	03/11/08			36.14			3,638.24
MW-20	03/11/08			36.14			3,638.24
MW-21	12/05/07	3,674.38		36.34			3,638.04
MW-21	01/30/08			36.41			3,637.97
MW-21	03/11/08			36.48			3,637.90
MW-22	12/05/07	3,674.07		36.08			3,637.99
MW-22	01/30/08			36.19			3,637.88
MW-22	03/11/08			36.26			3,637.81
MW-23	03/17/08	WELL INSTALLATION					
MW-23	03/25/08						
MW-23	03/29/08			36.08			
MW-24	03/17/08	WELL INSTALLATION					
MW-24	03/25/08			36.04			
MW-24	03/29/08			36.04			

Total manual recovery

159.50

Approximate system recovery

76.60 bbls

PSH - Phase Separated Hydrocarbons

na - not applicable

amsl - above mean sea level

btoc - below top of casing

*Corrected Groundwater Elevation = Top of Casing Elevation - [Depth to Water Below Top of Casing - (SG)(PSH Thickness)].



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene	Total BTEX
MW-1	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/11/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	03/11/08	0.0054	<0.001	<0.001	<0.001	0.0054
MW-9	03/11/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	03/11/08	1.69	<0.005	0.105	0.0122	1.810



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene	Total BTEX
MW-11	03/11/08	24.7	1.19	1.66	1.330	28.9
MW-12	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	03/11/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-14	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	03/11/08	0.0124	<0.001	<0.001	<0.001	0.0124
MW-17	03/11/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-18	03/11/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-19	03/11/08	<0.005	<0.005	<0.005	<0.005	<0.005
MW-20	03/11/08	38.9	<0.2	2.170	1.240	42.30



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene	Total BTEX
MW-21	03/11/08	<0.005	<0.005	<0.005	<0.005	<0.005
MW-22	03/11/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-23	03/25/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-24	03/25/08	<0.001	<0.001	<0.001	<0.001	<0.001
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620	

***Bolded** values are in excess of the NMWQCC Remediation Thresholds*



Table 3
Summary of Semi-Volatile and Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
Hobbs Junction Mainline
NMOCD REF. # AP-054
Lea County, New Mexico - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Pyridine	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosodimethylamine	03/25/08	<0.00500	<0.00500	mg/L
2-Picoline	03/25/08	<0.00500	<0.00500	mg/L
Methyl methanesulfonate	03/25/08	<0.00500	<0.00500	mg/L
Ethyl methanesulfonate	03/25/08	<0.00500	<0.00500	mg/L
Phenol	03/25/08	<0.00500	<0.00500	mg/L
Aniline	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroethyl)ether	03/25/08	<0.00500	<0.00500	mg/L
2-Chlorophenol	03/25/08	<0.00500	<0.00500	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.00500	<0.00500	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.00500	<0.00500	mg/L
Benzyl alcohol	03/25/08	<0.00500	<0.00500	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.00500	<0.00500	mg/L
2-Methylphenol	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroisopropyl)ether	03/25/08	<0.00500	<0.00500	mg/L
4-Methylphenol / 3-Methylphenol	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosodi-n-propylamine	03/25/08	<0.00500	<0.00500	mg/L
Hexachloroethane	03/25/08	<0.00500	<0.00500	mg/L
Acetophenone	03/25/08	<0.00500	<0.00500	mg/L
Nitrobenzene	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosopiperidine	03/25/08	<0.00500	<0.00500	mg/L
Isophorone	03/25/08	<0.00500	<0.00500	mg/L
2-Nitrophenol	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dimethylphenol	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroethoxy)methane	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dichlorophenol	03/25/08	<0.00500	<0.00500	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
Benzoic acid	03/25/08	<0.00500	<0.00500	mg/L



Table 3
Summary of Semi-Volatile and Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
Hobbs Junction Mainline
NMOCD REF. # AP-054
Lea County, New Mexico - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Naphthalene	03/25/08	<0.00500	<0.00500	mg/L
a,a-Dimethylphenethylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Chloroaniline	03/25/08	<0.00500	<0.00500	mg/L
2,6-Dichlorophenol	03/25/08	<0.0100	<0.0100	mg/L
Hexachlorobutadiene	03/25/08	<0.00500	<0.00500	mg/L
N-Nitroso-di-n-butylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Chloro-3-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
2-Methylnaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1-Methylnaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1,2,4,5-Tetrachlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
Hexachlorocyclopentadiene	03/25/08	<0.00500	<0.00500	mg/L
2,4,6-Trichlorophenol	03/25/08	<0.0100	<0.0100	mg/L
2,4,5-Trichlorophenol	03/25/08	<0.00500	<0.00500	mg/L
2-Chloroaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1-Chloronaphthalene	03/25/08	<0.00500	<0.00500	mg/L
2-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
Dimethylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Acenaphthylene	03/25/08	<0.00500	<0.00500	mg/L
2,6-Dinitrotoluene	03/25/08	<0.00500	<0.00500	mg/L
3-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
Aceaphthene	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dinitrophenol	03/25/08	<0.00500	<0.00500	mg/L
Dibenzofuran	03/25/08	<0.00500	<0.00500	mg/L
Pentachlororbenzene	03/25/08	<0.00500	<0.00500	mg/L
4-Nitrophenol	03/25/08	<0.0250	<0.0250	mg/L



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Hobbs Junction Mainline
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Lea County, New Mexico - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
2,4-Dinitrotoluene	03/25/08	<0.00500	<0.00500	mg/L
1-Naphthylamine	03/25/08	<0.00500	<0.00500	mg/L
2,3,4,6-Tetrachlorophenol	03/25/08	<0.0100	<0.0100	mg/L
2-Naphthylamine	03/25/08	<0.00500	<0.00500	mg/L
Fluorene	03/25/08	<0.00500	<0.00500	mg/L
4-chlorophenyl-phenylether	03/25/08	<0.00500	<0.00500	mg/L
Diethylphthalate	03/25/08	<0.00500	<0.00500	mg/L
4-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
Diphenylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Bromophenyl-phenylether	03/25/08	<0.00500	<0.00500	mg/L
Phenacetin	03/25/08	<0.00500	<0.00500	mg/L
Hexachlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
4-Aminobiphenyl	03/25/08	<0.00500	<0.00500	mg/L
Pentachlorophenol	03/25/08	<0.0100	<0.0100	mg/L
Anthracene	03/25/08	<0.00500	<0.00500	mg/L
Pentachloronitrobenzene	03/25/08	<0.00500	<0.00500	mg/L
Pronamide	03/25/08	<0.00500	<0.00500	mg/L
Phenanthrene	03/25/08	<0.00500	<0.00500	mg/L
Di-n-butylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
Benzidine	03/25/08	<0.0250	<0.0250	mg/L
Pyrene	03/25/08	<0.00500	<0.00500	mg/L



Table 3
Summary of Semi-Volatile and Volatile Groundwater Analytical Results
Plains Pipeline, L.P.

Hobbs Junction Mainline

NMOCD REF. # AP-054

Lea County, New Mexico - SRS# 2003-00017

Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
p-Dimthylaminoazobenzene	03/25/08	<0.00500	<0.00500	mg/L
Butylebenzylphthalae	03/25/08	<0.00500	<0.00500	mg/L
Benzo(a)anthracene	03/25/08	<0.00500	<0.00500	mg/L
3,3-Dichlorobenzidine	03/25/08	<0.00500	<0.00500	mg/L
Chrysene	03/25/08	<0.00500	<0.00500	mg/L
bis(2-ethylhexyl)phthalate	03/25/08	<0.00500	<0.00500	mg/L
Di-n-octylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Benzo(b)fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(k)fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
7,12-Dimethylbenz(a)anthracene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(a)pyrene	03/25/08	<0.00500	<0.00500	mg/L
3-Mthylcholanthrene	03/25/08	<0.00500	<0.00500	mg/L
Dibenzo(a,j)acridine	03/25/08	<0.00500	<0.00500	mg/L
Indeno(1,2,3-cd)pyrene	03/25/08	<0.00500	<0.00500	mg/L
Dibenzo(a,h)anthracene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(g,h,i)perylene	03/25/08	<0.00500	<0.00500	mg/L
Bromochloromethane	03/25/08	<0.001	<0.001	mg/L
Dichlorodifluoromethane	03/25/08	<0.001	<0.001	mg/L
Chloroethane (methyl chloride)	03/25/08	<0.001	<0.001	mg/L
Vinyl Chloride	03/25/08	<0.001	<0.001	mg/L
Bromomethane (methyl iodide)	03/25/08	<0.005	<0.005	mg/L
Chloroethane	03/25/08	<0.001	<0.001	mg/L
Trichlorofluoromethane	03/25/08	<0.001	<0.001	mg/L
Acetone	03/25/08	<0.010	<0.010	mg/L
Iodomethane (methyl iodide)	03/25/08	<0.005	<0.005	mg/L
Carbon Disulfide	03/25/08	<0.001	<0.001	mg/L
Acrylonitrile	03/25/08	<0.001	<0.001	mg/L
2-Butanone (MEK)	03/25/08	<0.005	<0.005	mg/L
4-Mthyl-2-pentanone (MIBK)	03/25/08	<0.005	<0.005	mg/L



Table 3
Summary of Semi-Volatile and Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
Hobbs Junction Mainline
NMOCD REF. # AP-054
Lea County, New Mexico - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
2-Hexanone	03/25/08	<0.005	<0.005	mg/L
trans 1,4-Dichloro-2-butene	03/25/08	<0.010	<0.010	mg/L
1,1-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
Methylene chloride	03/25/08	<0.005	<0.005	mg/L
MTBE	03/25/08	<0.001	<0.001	mg/L
trans-1,2-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
1,1-Dichloroethane	03/25/08	<0.001	<0.001	mg/L
cis-1,2-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
2,2-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
1,2-Dichloroethane (EDC)	03/25/08	<0.001	<0.001	mg/L
Chloroform	03/25/08	<0.001	<0.001	mg/L
1,1,1-Trichloroethane	03/25/08	<0.001	<0.001	mg/L
1,1-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
Benzene	03/25/08	<0.001	<0.001	mg/L
Carbon Tetrachloride	03/25/08	<0.001	<0.001	mg/L
1,2-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
Trichloroethene (TCE)	03/25/08	<0.001	<0.001	mg/L
Dibromomethane (methylene bromide)	03/25/08	<0.001	<0.001	mg/L
Bromodichloromethane	03/25/08	<0.001	<0.001	mg/L
2-Chloroethyl vinyl ether	03/25/08	<0.005	<0.005	mg/L
cis-1,3-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
trans-1,3-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
Toluene	03/25/08	<0.001	<0.001	mg/L
1,1,2-Trichloroethane	03/25/08	<0.001	<0.001	mg/L
1,3-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
Dibromochloromethane	03/25/08	<0.001	<0.001	mg/L
1,2-Dibromoethane (EDB)	03/25/08	<0.001	<0.001	mg/L



Table 3
Summary of Semi-Volatile and Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
Hobbs Junction Mainline
NMOCD REF. # AP-054
Lea County, New Mexico - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Tetrachloroethene (PCE)	03/25/08	<0.001	<0.001	mg/L
Chlorobenzene	03/25/08	<0.001	<0.001	mg/L
1,1,1,2-Tetrachloroethane	03/25/08	<0.001	<0.001	mg/L
Ethylbenzene	03/25/08	<0.001	<0.001	mg/L
m,p-Xylene	03/25/08	<0.001	<0.001	mg/L
Bromoform	03/25/08	<0.001	<0.001	mg/L
Styrene	03/25/08	<0.001	<0.001	mg/L
o-Xylene	03/25/08	<0.001	<0.001	mg/L
1,1,2,2-Tetrachloroethane	03/25/08	<0.001	<0.001	mg/L
2-Chlorotoluene	03/25/08	<0.001	<0.001	mg/L
1,2,3-Trichloropropane	03/25/08	<0.001	<0.001	mg/L
Isopropylbenzene	03/25/08	<0.001	<0.001	mg/L
Bromobenzene	03/25/08	<0.001	<0.001	mg/L
n-Propylbenzene	03/25/08	<0.001	<0.001	mg/L
1,3,5-Trimethylebenzene	03/25/08	<0.001	<0.001	mg/L
tert-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,2,4-Trimethylbenzene	03/25/08	<0.001	<0.001	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.001	<0.001	mg/L
sec-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.001	<0.001	mg/L
p-Isopropyltoluene	03/25/08	<0.001	<0.001	mg/L
4-Chlorotoluene	03/25/08	<0.001	<0.001	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.001	<0.001	mg/L
n-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,2-Dibromo-3-chloropropane	03/25/08	<0.005	<0.005	mg/L
1,2,3-Trichlorobenzene	03/25/08	<0.005	<0.005	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.005	<0.005	mg/L
Naphthalene	03/25/08	<0.005	<0.005	mg/L
Hexachlorobutadiene	03/25/08	<0.005	<0.005	mg/L



TABLE 4
SUMMARY OF EUNICE WATER WELL#6
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

PARAM	Sample Date	Result	NMWQCC MCL	EPA MCL
Total Silver	03/31/08	<0.00500 mg/L	0.05 mg/L	
Total Aluminum	03/31/08	<0.0500 mg/L	5.0 mg/L	
Total Arsenic	03/31/08	0.013 mg/L	0.1 mg/L	
Total Barium	03/31/08	0.055 mg/L	1.0 mg/L	
Total Beryllium	03/31/08	<0.00200 mg/L		0.004 mg/L
Total Cadmium	03/31/08	<0.00100 mg/L	0.01 mg/L	
Chloride	03/31/08	41.5 mg/L	250 mg/L	
Corrosivity	03/31/08	non-corrosive mm/yr		
pH	03/31/08	7.48 s.u.	6-9	
Total Chromium	03/31/08	<0.00100mg/L	0.05 mg/L	
Total Copper	03/31/08	<0.00500 mg/L	1.0 mg/L	
Total Iron	03/31/08	0.034 mg/L	1.0 mg/L	
Fluoride	03/31/08	1.26 mg/L	1.6 mg/L	
Free Cyanide	03/31/08	<0.0100 mg/L	0.2 mg/L	
Total Mercury	03/31/08	<0.000200 mg/L	0.002 mg/L	
Total Manganese	03/31/08	<0.00250 mg/L	0.2 mg/L	
Nitrite-N	03/31/08	<1.00 mg/L		1.0 mg/L
Nitrate-N	03/31/08	3.5 mg/L	10.0 mg/L	
Benzo(a)pyrene	03/31/08	<0.0002000 mg/L	0.0007 mg/L	
Total Lead	03/31/08	<0.00500 mg/L	0.05 mg/L	
Total Antimony	03/31/08	<0.0200 mg/L		0.006 mg/L
Total Selenium	03/31/08	<0.0100 mg/L	0.05 mg/L	
Sulfate	03/31/08	66.7 mg/L	600 mg/L	
Surfactants	03/31/08	<0.100 MBAS mg/L		
Total Dissolved Solids	03/31/08	364 mg/L	1000 mg/L	
Total Thallium	03/31/08	<0.0200 mg/L		0.002 mg/L
Vinyl Chloride	03/31/08	<0.001 mg/L	0.001 mg/L	
1,1-Dichloroethylene	03/31/08	<0.001 mg/L	0.005 mg/L	
Mythylene chloride	03/31/08	<0.005 mg/L	0.1 mg/L	
trans-1,2-Dichloroethylene	03/31/08	<0.001 mg/L		0.1 mg/L
cis-1,2-Dichloroethylene	03/31/08	<0.001 mg/L		0.07 mg/L



TABLE 4
SUMMARY OF EUNICE WATER WELL#6
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

PARAM	Sample Date	Result	NMWQCC MCL	EPA MCL
1,2-Dichloroethane (EDC)	03/31/08	<0.001 mg/L	0.01 mg/L	
Benzene	03/31/08	<0.001 mg/L	0.01 mg/L	
Carbon Tetrachloride	03/31/08	<0.001 mg/L	0.01 mg/L	
1,2-Dichloropropane	03/31/08	<0.001 mg/L		0.005 mg/L
Trichloroethylene (TCE)	03/31/08	<0.001 mg/L		0.005 mg/L
Toluene	03/31/08	<0.001 mg/L	0.75 mg/L	
1,1,2-Trichloroethane	03/31/08	<0.001 mg/L	0.01 mg/L	
Tetrachloroethylene (PCE)	03/31/08	<0.001 mg/L		0.005 mg/L
Chlorobenzene	03/31/08	<0.001 mg/L		0.1 mg/L
Ethylbenzene	03/31/08	<0.001 mg/L	0.75 mg/L	
m,p-Xylene	03/31/08	<0.001 mg/L		
Styrene	03/31/08	<0.001 mg/L		0.1 mg/L
o-Xylene	03/31/08	<0.001 mg/L		
1,4-Dichlorobenzene (para)	03/31/08	<0.001 mg/L		0.075 mg/L
1,2-Dichlorobenzene (ortho)	03/31/08	<0.001 mg/L		0.6 mg/L
1,2,4-Trichlorobenzene	03/31/08	<0.001 mg/L		0.07 mg/L
Total Zinc	03/31/08	<0.00700 mg/L	10 mg/L	
Odor ²	03/31/08	no detectable odor		
Color	03/31/08	3 HU		

¹ **Bolded** values are in excess of the New Mexico Water Quality Control Commission Ground Water Standards

² No Detectable Odor corresponding to odor thresholds of 1,4,17, & 70

TABLE 5
Summary of Soil Sample Laboratory Analytical Results
Plains Pipeline, L. P.
Hobbs Junction Mainline
NMOCD REF# AP-054
Lea County, New Mexico SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW1 (BH1) (PSH) ^B	2	SEHM21303BH1-2	12-Feb-99	In Situ	Caliche	--	169	981	562	942	2,650	21,400	31,700	53,100	21.8	52.3
	5	SEHM21303BH1-5	12-Feb-99	In Situ	Caliche	--	38.8	177	107	164	487	3,950	6,070	10,020	--	--
	10	SEHM21303BH1-10	12-Feb-99	In Situ	Caliche	--	44.6	196	113	176	529	2,650	3,860	6,510	--	--
	15	SEHM21303BH1-15	12-Feb-99	In Situ	Caliche	--	27.3	142	98.4	156	424	3,940	6,710	10,650	--	--
	20	SEHM21303BH1-20	12-Feb-99	In Situ	Caliche	--	10.6	84.5	66.3	111	272	2,990	5,870	8,860	--	--
MW2 (PSH)	25	SEHM21303BH1-25	12-Feb-99	In Situ	Tan Sand	--	9.75	95.5	94.2	150	349	2,820	5,760	8,580	--	--
	5	SEHM8503MW2-5	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	10	SEHM8503MW2-10	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW2-15	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	20	SEHM8503MW2-20	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
MW3 (PSH)	25	SEHM8503MW2-25	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW2-30	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	35	SEHM8503MW2-35	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW2-40	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	5	SEHM8503MW3-5	04-Aug-99	In Situ	Tan Caliche Sand	978	--	--	--	--	--	--	--	--	--	--
MW4 (PSH)	10	SEHM8503MW3-10	04-Aug-99	In Situ	Brown Caliche Sand	990	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW3-15	04-Aug-99	In Situ	Brown Caliche Sand	1,040	--	--	--	--	--	--	--	--	--	--
	20	SEHM8503MW3-20	04-Aug-99	In Situ	Tan Sand	1,247	--	--	--	--	--	--	--	--	--	--
	25	SEHM8503MW3-25	04-Aug-99	In Situ	Brown Caliche Sand	1,800	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW3-30	04-Aug-99	In Situ	Brown Sand	1,450	--	--	--	--	--	--	--	--	--	--
MW4 (PSH)	35	SEHM8503MW3-35	04-Aug-99	In Situ	Fine Brown Sand	1,576	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW3-40	04-Aug-99	In Situ	Fine Brown Sand	1,860	--	--	--	--	--	--	--	--	--	--
	5	SEHM8503MW4-5	04-Aug-99	In Situ	Brown Sand	850	--	--	--	--	--	--	--	--	--	--
	10	SEHM8503MW4-10	04-Aug-99	In Situ	Brown Sand	506	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW4-15	04-Aug-99	In Situ	Brown Caliche Sand	710	--	--	--	--	--	--	--	--	--	--
MW4 (PSH)	20	SEHM8503MW4-20	04-Aug-99	In Situ	Brown Sand	770	--	--	--	--	--	--	--	--	--	--
	25	SEHM8503MW4-25	04-Aug-99	In Situ	Brown Sand	690	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW4-30	04-Aug-99	In Situ	Brown Sand	750	--	--	--	--	--	--	--	--	--	--
	35	SEHM8503MW4-35	04-Aug-99	In Situ	Fine Brown Sand	900	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW4-40	04-Aug-99	In Situ	Fine Brown Oily Sand	1,350	--	--	--	--	--	--	--	--	--	--



TABLE 5

Summary of Soil Sample Laboratory Analytical Results

Plains Pipeline, L. P.

Hobbs Junction Mainline

NMOCD REF# AP-054

Lea County, New Mexico SRS# 2003-00017

Talon/LPE Project Number PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW5 (PSH)	5	SEHM8603MW5-5	05-Aug-99	In Situ	Tan Caliche Sand	6.7	-	-	-	-	-	-	-	-	-	-
	10	SEHM8603MW5-10	05-Aug-99	In Situ	Tan Caliche Sand	13.4	-	-	-	-	-	-	-	-	-	-
	15	SEHM8603MW5-15	05-Aug-99	In Situ	Tan Caliche Sand	30.7	-	-	-	-	-	-	-	-	-	-
	20	SEHM8603MW5-20	05-Aug-99	In Situ	Tan Sand	37.4	-	-	-	-	-	-	-	-	-	-
	25	SEHM8603MW5-25	05-Aug-99	In Situ	Brown Sand	18.6	-	-	-	-	-	-	-	-	-	-
	30	SEHM8603MW5-30	05-Aug-99	In Situ	Tan Caliche Sand	15	-	-	-	-	-	-	-	-	-	-
	35	SEHM8603MW5-35	05-Aug-99	In Situ	Brown Sand	1,880	-	-	-	-	-	-	-	-	-	-
	40	SEHM8603MW5-40	05-Aug-99	In Situ	Fine Brown Silty Sand	1,900	-	-	-	-	-	-	-	-	-	-
MW6 (PSH)	5	SEHM8603MW6-5	05-Aug-99	In Situ	Tan Caliche Sand	14.5	-	-	-	-	-	-	-	-	-	-
	10	SEHM8603MW6-10	05-Aug-99	In Situ	Tan Caliche Sand	62.7	-	-	-	-	-	-	-	-	-	-
	15	SEHM8603MW6-15	05-Aug-99	In Situ	Tan Caliche Sand	70.4	-	-	-	-	-	-	-	-	-	-
	20	SEHM8603MW6-20	05-Aug-99	In Situ	Tan Sand	36.9	-	-	-	-	-	-	-	-	-	-
	25	SEHM8603MW6-25	05-Aug-99	In Situ	Tan Sand	39.4	-	-	-	-	-	-	-	-	-	-
	30	SEHM8603MW6-30	05-Aug-99	In Situ	Tan Sand	27.5	-	-	-	-	-	-	-	-	-	-
	35	SEHM8603MW6-35	05-Aug-99	In Situ	Brown Sand	1,150	-	-	-	-	-	-	-	-	-	-
	40	SEHM8603MW6-40	05-Aug-99	In Situ	Fine Brown Silty Sand	2,400	-	-	-	-	-	-	-	-	-	-
MW7	23	SSL11904MW7	18-Jan-00	In Situ	Tan Caliche Sand	1.8	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW7	18-Jan-00	In Situ	Brown Wet Sand	0.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW8	23	SSL11904MW8	18-Jan-00	In Situ	Brown Sand	5.2	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW8	18-Jan-00	In Situ	Brown Wet Sand	13.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW9	23	SSL11904MW9	18-Jan-00	In Situ	Brown Sand	5.8	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW9	18-Jan-00	In Situ	Brown Wet Sand	10.1	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW10	23	SSL12004MW10	19-Jan-00	In Situ	Red Brown Sand	5.2	-	-	-	-	-	-	-	-	-	-
	40	SSL12004MW10	19-Jan-00	In Situ	Red Brown Wet Sand	9.8	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW11	23	SSL012004MW11	19-Jan-00	In Situ	Tan Sand	4.8	-	-	-	-	-	-	-	-	-	-
	40	SSL012004MW11	19-Jan-00	In Situ	Red Brown Wet Sand	9.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW12 (PSH)	23	SSL012004MW12	19-Jan-00	In Situ	Tan Caliche Sand	21.9	-	-	-	-	-	-	-	-	-	-
	40	SSL012004MW12	19-Jan-00	In Situ	Red Brown Sand	456	8.84	98.0	54.2	94.3	255	1,910	3,490	5,400	-	-
MW13	23	SSL012004MW13	19-Jan-00	In Situ	Tan Caliche Sand	11.4	-	-	-	-	-	-	-	-	-	-
	40	SSL012004MW13	19-Jan-00	In Situ	Red Brown Wet Sand	7	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-



TABLE 5

Summary of Soil Sample Laboratory Analytical Results

Plains Pipeline, L. P.

Hobbs Junction Mainline

NMOCD REF# AP-054

Lea County, New Mexico SRS# 2003-00017

Talon/LPE Project Number PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW14 (PSH)	3	LSHUM5-24-04MMW14 (3'-5')	23-May-00	In Situ	Caliche	81.8	-	-	-	-	-	-	-	-	-	-
	8	LSHUM5-24-04MMW14 (8'-10')	23-May-00	In Situ	Caliche	33.4	-	-	-	-	-	-	-	-	-	-
	13	LSHUM5-24-04MMW14 (13'-15')	23-May-00	In Situ	Caliche	23.8	-	-	-	-	-	-	-	-	-	-
	18	LSHUM5-24-04MMW14 (18'-20')	23-May-00	In Situ	Caliche	102	-	-	-	-	-	-	-	-	-	-
	23	LSHUM5-24-04MMW14 (23'-25')	23-May-00	In Situ	Tan Sand	73.3	-	-	-	-	-	-	-	-	-	-
	28	LSHUM5-24-04MMW14 (28'-30')	23-May-00	In Situ	Tan Sand	170	-	-	-	-	-	-	-	-	-	-
	33	LSHUM5-24-04MMW14 (33'-35')	23-May-00	In Situ	Tan Sand	76.7	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHUM5-24-04MMW14 (38'-40')	23-May-00	In Situ	Tan Sand	394	-	-	-	-	-	-	-	-	-	-
	43	LSHUM5-24-04MMW14 (43'-45')	23-May-00	In Situ	Tan Sand	58.3	-	-	-	-	-	-	-	-	-	-
	40	LSHUM5-26-04MMW15 (43'-45')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-
MW15	3	LSHUM5-26-04MMW15 (3'-5')	25-May-00	In Situ	Caliche	7.7	-	-	-	-	-	-	-	-	-	-
	8	LSHUM5-26-04MMW15 (8'-10')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	13	LSHUM5-26-04MMW15 (13'-15')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	18	LSHUM5-26-04MMW15 (18'-20')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	23	LSHUM5-26-04MMW15 (23'-25')	25-May-00	In Situ	Tan Sand	0	-	-	-	-	-	-	-	-	-	-
	28	LSHUM5-26-04MMW15 (28'-30')	25-May-00	In Situ	Tan Sand	4.5	-	-	-	-	-	-	-	-	-	-
	33	LSHUM5-26-04MMW15 (33'-35')	25-May-00	In Situ	Tan Caliche Sand	32.5	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHUM5-26-04MMW15 (38'-40')	25-May-00	In Situ	Tan Sand	0	-	-	-	-	-	-	-	-	-	-
	43	LSHUM5-26-04MMW15 (43'-45')	25-May-00	In Situ	Tan Sand	8.1	-	-	-	-	-	-	-	-	-	-
	40	LSHUM5-26-04MMW16 (43'-45')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-
MW16	3	LSHUM5-26-04MMW16 (3'-5')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	8	LSHUM5-26-04MMW16 (8'-10')	25-May-00	In Situ	Caliche	36.9	-	-	-	-	-	-	-	-	-	-
	13	LSHUM5-26-04MMW16 (13'-15')	25-May-00	In Situ	Caliche	0.3	-	-	-	-	-	-	-	-	-	-
	18	LSHUM5-26-04MMW16 (18'-20')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	23	LSHUM5-26-04MMW16 (23'-25')	25-May-00	In Situ	Tan Caliche Sand	117	-	-	-	-	-	-	-	-	-	-
	28	LSHUM5-26-04MMW16 (28'-30')	25-May-00	In Situ	Tan Caliche Sand	287	-	-	-	-	-	-	-	-	-	-
	33	LSHUM5-26-04MMW16 (33'-35')	25-May-00	In Situ	Tan Sand	413	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHUM5-26-04MMW16 (38'-40')	25-May-00	In Situ	Tan Sand	436	-	-	-	-	-	-	-	-	-	-
	43	LSHUM5-26-04MMW16 (43'-45')	25-May-00	In Situ	Tan Sand	180	-	-	-	-	-	-	-	-	-	-
	40	LSHUM5-26-04MMW17 (43'-45')	25-May-00	In Situ	Caliche	4.1	-	-	-	-	-	-	-	-	-	-
MW17 (PSH)	3	LSHUM5-24-04MMW17 (3'-5')	23-May-00	In Situ	Caliche	10.9	-	-	-	-	-	-	-	-	-	-
	8	LSHUM5-24-04MMW17 (8'-10')	23-May-00	In Situ	Caliche	6.5	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	13	LSHUM5-24-04MMW17 (13'-15')	23-May-00	In Situ	Caliche	5.6	-	-	-	-	-	-	-	-	-	-
	18	LSHUM5-24-04MMW17 (18'-20')	23-May-00	In Situ	Caliche	13.2	-	-	-	-	-	-	-	-	-	-
	23	LSHUM5-24-04MMW17 (23'-25')	23-May-00	In Situ	Tan Sand	130	-	-	-	-	-	-	-	-	-	-
	28	LSHUM5-26-04MMW17 (28'-30')	25-May-00	In Situ	Tan Sand	1,189	-	-	-	-	-	-	-	-	-	-
	34	LSHUM5-26-04MMW17 (34'-36')	25-May-00	In Situ	Tan Sand	387	-	-	-	-	-	-	-	-	-	-
	38	LSHUM5-26-04MMW17 (38'-40')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-
	40	LSHUM5-26-04MMW17 (43'-45')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-
	40	LSHUM5-26-04MMW17 (43'-45')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-

TABLE 5
Summary of Soil Sample Laboratory Analytical Results
Plains Pipeline, L. P.
Hobbs Junction Mainline
NMOCD REF# AP-054
Lea County, New Mexico SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW-21	35	MW-21 35'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-21	55	MW-21 55'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-22	35	MW-22 35'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-22	50	MW-22 55'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-23	5	MW-23 5'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	2.18	<50.0			
MW-23	20	MW-23 20'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-23	35	MW-23 35'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-24	5	MW-24 5'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-24	20	MW-24 20'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
MW-24	35	MW-24 35'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0			
NMOCD Remedial Thresholds																
											50			100	600 ^A	250 ^A

Bolded values are in excess of NMOCD Remediation Thresholds

^A Chloride and Sulfate residuals may not be capable of impacting local groundwater above the NMWQCC groundwater standards 250 and 600 mg/L, respectively.

^B Indicates Phase Separated Hydrocarbons (PSH) detected during drilling activities.



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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: March 19, 2008

Work Order: 8031211



Project Location: Hobbs, NM
Project Name: Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

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
153289	MW #10	water	2008-03-11	14:17	2008-03-12
153290	MW #9	water	2008-03-11	14:21	2008-03-12
153291	MW #8	water	2008-03-11	14:25	2008-03-12
153292	MW #7	water	2008-03-11	14:29	2008-03-12
153293	MW #11	water	2008-03-11	15:05	2008-03-12
153294	MW #21	water	2008-03-11	14:55	2008-03-12
153295	MW #22	water	2008-03-11	15:10	2008-03-12
153296	MW #20	water	2008-03-11	14:58	2008-03-12
153297	MW #19	water	2008-03-11	15:28	2008-03-12
153298	MW #16	water	2008-03-11	14:41	2008-03-12
153299	MW #13	water	2008-03-11	14:35	2008-03-12
153300	MW #18	water	2008-03-11	14:50	2008-03-12

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.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 153289 - MW #10

Analysis: BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.69	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.105	mg/L	5	0.00100
Xylene		0.0122	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.528	mg/L	5	0.500	106	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.280	mg/L	5	0.500	56	40.1 - 136

Sample: 153289 - MW #10

Analysis: Total BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		1.81	mg/L	5	0.00100

Sample: 153290 - MW #9

Analysis: BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

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		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0671	mg/L	1	0.100	67	40.1 - 136

Sample: 153290 - MW #9

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

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

Sample: 153291 - MW #8

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00540	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0768	mg/L	1	0.100	77	40.1 - 136

Sample: 153291 - MW #8

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		0.00540	mg/L	1	0.00100

Sample: 153292 - MW #7

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

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		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0674	mg/L	1	0.100	67	40.1 - 136

Sample: 153292 - MW #7

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46566 Date Analyzed: 2008-03-15 Analyzed By: DC
Prep Batch: 40022 Sample Preparation: 2008-03-14 Prepared By: DC

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

Sample: 153293 - MW #11

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.7	mg/L	100	0.00100
Toluene		1.19	mg/L	100	0.00100
Ethylbenzene		1.66	mg/L	100	0.00100
Xylene		1.33	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.7	mg/L	100	10.0	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		8.52	mg/L	100	10.0	85	40.1 - 136

Sample: 153293 - MW #11

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		28.9	mg/L	100	0.00100

Sample: 153294 - MW #21

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.511	mg/L	5	0.500	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.433	mg/L	5	0.500	87	40.1 - 136

Sample: 153294 - MW #21

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00500	mg/L	5	0.00100

Sample: 153295 - MW #22

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

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		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0730	mg/L	1	0.100	73	40.1 - 136

Sample: 153295 - MW #22

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

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

Sample: 153296 - MW #20

Analysis: BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		38.9	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		2.17	mg/L	200	0.00100
Xylene		1.24	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.8	mg/L	200	20.0	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		16.4	mg/L	200	20.0	82	40.1 - 136

Sample: 153296 - MW #20

Analysis: Total BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		42.3	mg/L	200	0.00100

Sample: 153297 - MW #19

Analysis: BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

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		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.522	mg/L	5	0.500	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.301	mg/L	5	0.500	60	40.1 - 136

Sample: 153297 - MW #19

Analysis: Total BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00500	mg/L	5	0.00100

Sample: 153298 - MW #16

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0124	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0426	mg/L	1	0.100	43	40.1 - 136

Sample: 153298 - MW #16

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		0.0124	mg/L	1	0.00100

Sample: 153299 - MW #13

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

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		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0429	mg/L	1	0.100	43	40.1 - 136

Sample: 153299 - MW #13

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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

Sample: 153300 - MW #18

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0431	mg/L	1	0.100	43	40.1 - 136

Sample: 153300 - MW #18

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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

Method Blank (1) QC Batch: 46566

QC Batch: 46566 Date Analyzed: 2008-03-15 Analyzed By: DC
Prep Batch: 40022 QC Preparation: 2008-03-14 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	69.1 - 122.3

Method Blank (1) QC Batch: 46610

QC Batch: 46610
Prep Batch: 40073

Date Analyzed: 2008-03-17
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0832	mg/L	1	0.100	83	69.1 - 122.3

Method Blank (1) QC Batch: 46633

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch: 46566
Prep Batch: 40022

Date Analyzed: 2008-03-15
QC Preparation: 2008-03-14

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	¹ 0.106	mg/L	1	0.100	<0.00110	106	84 - 119.7

continued ...

¹MS/MSD benzene out of range. Use LCS/LCSD to show method is in control. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	0.108	mg/L	1	0.100	<0.00100	108	84.9 - 118.2
Ethylbenzene	0.109	mg/L	1	0.100	<0.00100	109	84.4 - 118.6
Xylene	0.334	mg/L	1	0.300	<0.00290	111	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	84 - 119.7	1	20
Toluene	0.106	mg/L	1	0.100	<0.00100	106	84.9 - 118.2	2	20
Ethylbenzene	0.107	mg/L	1	0.100	<0.00100	107	84.4 - 118.6	2	20
Xylene	0.328	mg/L	1	0.300	<0.00290	109	84.8 - 117.8	2	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)	0.105	0.105	mg/L	1	0.100	105	105	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.105	0.104	mg/L	1	0.100	105	104	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46610
 Prep Batch: 40073

Date Analyzed: 2008-03-17
 QC Preparation: 2008-03-17

Analyzed By: DC
 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7
Toluene	0.104	mg/L	1	0.100	<0.00100	104	84.9 - 118.2
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6
Xylene	0.316	mg/L	1	0.300	<0.00290	105	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	0	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	84.9 - 118.2	1	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6	0	20
Xylene	0.317	mg/L	1	0.300	<0.00290	106	84.8 - 117.8	0	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)	0.105	0.105	mg/L	1	0.100	105	105	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0866	0.0876	mg/L	1	0.100	87	88	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46633
 Prep Batch: 40116

Date Analyzed: 2008-03-18
 QC Preparation: 2008-03-18

Analyzed By: DC
 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.112	mg/L	1	0.100	<0.00110	112	84 - 119.7
Toluene	0.113	mg/L	1	0.100	<0.00100	113	84.9 - 118.2
Ethylbenzene	0.115	mg/L	1	0.100	<0.00100	115	84.4 - 118.6
Xylene	0.352	mg/L	1	0.300	<0.00290	117	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.109	mg/L	1	0.100	<0.00110	109	84 - 119.7	3	20
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2	3	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.00100	112	84.4 - 118.6	3	20
Xylene	0.346	mg/L	1	0.300	<0.00290	115	84.8 - 117.8	2	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)	0.109	0.108	mg/L	1	0.100	109	108	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.110	0.109	mg/L	1	0.100	110	109	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 153373

QC Batch: 46610
Prep Batch: 40073

Date Analyzed: 2008-03-17
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	11.1	mg/L	50	5.00	5.3987	114	77.5 - 121.1
Toluene	5.20	mg/L	50	5.00	0.075	102	78.8 - 119.6
Ethylbenzene	5.07	mg/L	50	5.00	0.0987	99	77.9 - 120.5
Xylene	14.8	mg/L	50	15.0	0.5208	95	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	10.8	mg/L	50	5.00	5.3987	108	77.5 - 121.1	3	20
Toluene	4.86	mg/L	50	5.00	0.075	96	78.8 - 119.6	7	20
Ethylbenzene	4.83	mg/L	50	5.00	0.0987	95	77.9 - 120.5	5	20
Xylene	14.3	mg/L	50	15.0	0.5208	92	78.3 - 119.4	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5.02	5.05	mg/L	50	5	100	101	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	² ³ 2.73	2.82	mg/L	50	5	55	56	59.4 - 127.3

²BFB out of control limits; TFT shows method to be in control.

³BFB out of control limits; TFT shows method to be in control.

Matrix Spike (MS-1) Spiked Sample: 153297

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.503	mg/L	5	0.500	<0.00550	101	77.5 - 121.1
Toluene	0.500	mg/L	5	0.500	<0.00500	100	78.8 - 119.6
Ethylbenzene	0.486	mg/L	5	0.500	<0.00500	97	77.9 - 120.5
Xylene	1.41	mg/L	5	1.50	<0.0145	94	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.501	mg/L	5	0.500	<0.00550	100	77.5 - 121.1	0	20
Toluene	0.501	mg/L	5	0.500	<0.00500	100	78.8 - 119.6	0	20
Ethylbenzene	0.491	mg/L	5	0.500	<0.00500	98	77.9 - 120.5	1	20
Xylene	1.43	mg/L	5	1.50	<0.0145	95	78.3 - 119.4	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.525	0.519	mg/L	5	0.5	105	104	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.293	0.298	mg/L	5	0.5	59	60	59.4 - 127.3

Standard (ICV-1)

QC Batch: 46566

Date Analyzed: 2008-03-15

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2008-03-15
Toluene		mg/L	0.100	0.104	104	85 - 115	2008-03-15
Ethylbenzene		mg/L	0.100	0.105	105	85 - 115	2008-03-15
Xylene		mg/L	0.300	0.324	108	85 - 115	2008-03-15

Standard (CCV-1)

QC Batch: 46566

Date Analyzed: 2008-03-15

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.112	112	85 - 115	2008-03-15
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-03-15
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-03-15
Xylene		mg/L	0.300	0.312	104	85 - 115	2008-03-15

⁴BFB out of control limits; TFT shows method to be in control.

Standard (ICV-1)

QC Batch: 46610

Date Analyzed: 2008-03-17

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-03-17
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-03-17
Ethylbenzene		mg/L	0.100	0.0999	100	85 - 115	2008-03-17
Xylene		mg/L	0.300	0.298	99	85 - 115	2008-03-17

Standard (CCV-1)

QC Batch: 46610

Date Analyzed: 2008-03-17

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0999	100	85 - 115	2008-03-17
Toluene		mg/L	0.100	0.0996	100	85 - 115	2008-03-17
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2008-03-17
Xylene		mg/L	0.300	0.286	95	85 - 115	2008-03-17

Standard (ICV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.114	114	85 - 115	2008-03-18
Xylene	⁵	mg/L	0.300	0.350	117	85 - 115	2008-03-18

Standard (CCV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

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	2008-03-18
Toluene		mg/L	0.100	0.0995	100	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.0964	96	85 - 115	2008-03-18
Xylene		mg/L	0.300	0.278	93	85 - 115	2008-03-18

⁵Xylene outside of control limits on ICV. ICV component average is 0.1130 which is within acceptable range. This is acceptable by Method 8000.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

LAB Order ID # 5031211

Page 1 of 2

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Company Name: Talon LPE Phone #: 432-522-2133
Address: (Street, City, Zip) Fax #: 432-522-2180
Contact Person: Shanna Smith Email: Camille Reynolds - Plains
Voice to: 5smith@talonlpe.com
different from above) Plains Camille Reynolds
Object #: PLAINS 0475PL Project Name: SRS 2003-00017 Junction Mainline
Object Location (including state): Hobbs, NM Sampler Signature: Cuibo Chung

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD	DATE	TIME	Turn Around Time if different from standard
53289		MW #10	2	✓	WATER	HCl	3-11-08	2:17	
290		MW #9	2	✓	WATER	HCl	3-11-08	2:21	
291		MW #8	2	✓	WATER	HCl	3-11-08	2:25	
292		MW #7	2	✓	WATER	HCl	3-11-08	2:29	
293		MW #11	2	✓	WATER	HCl	3-11-08	3:05	
294		MW #21	2	✓	WATER	HCl	3-11-08	2:55	
295		MW #22	2	✓	WATER	HCl	3-11-08	3:10	
296		MW #20	2	✓	WATER	HCl	3-11-08	2:58	
297		MW #19	2	✓	WATER	HCl	3-11-08	3:26	
298		MW #16	2	✓	WATER	HCl	3-11-08	2:41	
299		MW #13	2	✓	WATER	HCl	3-11-08	2:35	

LAB USE ONLY
Intact: Y N
Headspace: Y N
Temp: 30 °
Log-in-Review: Log-in-Review

REMARKS: All tests - Midland

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

linquished by: Cuibo Chung Date: 3-12-08 Time: 0700
linquished by: Shanna Smith Date: 3/12/08 Time: 10:10
linquished by: Shanna Smith Date: 3/12/08 Time: 10:10

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

ORIGINAL COPY

Carrier # camp

6701 Aberdeen Avenue, Suite 9
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email: lab@traceanalysis.com

Company Name: Talon LPE Phone #: 432-522-2133
Address: (Street, City, Zip) Fax #: 432-522-2180
2901 Rankin Hwy
Contact Person: _____ E-mail: _____

Company Name: Talon LPE
Address: 2901 Rankin Hwy
City/State/Zip: (Street, City, Zip)
Phone #: 432-522-2133
Fax #: 432-522-2180
Contact Person: Shawna Smith
E-mail: ssmith@talonlpe.com

voice to:	different from above)	Plain	Cornelia Reynolds
-----------	-----------------------	-------	-------------------

Project #: PLANS 047 SPL
Project Location (including state): Hobbs, NM
Project Name: CAMILLE REYNOLDS
SRS 2003-00017 Junction Mainline
Sampler Signature: C. Reynolds

Chubb Chubb

[illegible]

Inquired by:	Date:	Time:	Received by:	Date:	Time:
C. L. C. C.	3-12-08	0700	[Signature]	3/12/08	7:00
[Signature]	3/12/08	10:10	[Signature]	3/12/08	10:10

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

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ANALYSIS REQUEST
((Circle or Specify Method No.))

[illegible]

REMARKS:

ABUSE ONLY

All tasks - Midland

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # cont



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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: March 26, 2008

Work Order: 8032420



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: SRS#2003-00017

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
154490	MW-23 5'	soil	2008-03-17	11:31	2008-03-24
154491	MW-23 20'	soil	2008-03-17	11:43	2008-03-24
154492	MW-23 35'	soil	2008-03-17	11:53	2008-03-24
154493	MW-24 5'	soil	2008-03-17	15:04	2008-03-24
154494	MW-24 20'	soil	2008-03-17	15:14	2008-03-24
154495	MW-24 35'	soil	2008-03-17	15:23	2008-03-24

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.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 154490 - MW-23 5'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154490 - MW-23 5'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		92.6	mg/Kg	1	100	93	10 - 250.4

Sample: 154490 - MW-23 5'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	2.18	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	74.9 - 140.5

¹ High surrogate recovery. Sample non-detect, result bias high.

Sample: 154491 - MW-23 20'

Analysis: BTEX, Total BTEX
 QC Batch: 46818
 Prep Batch: 40266

Analytical Method: S 8021B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: S 5035
 Analyzed By: DC
 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154491 - MW-23 20'

Analysis: TPH DRO
 QC Batch: 46817
 Prep Batch: 40273

Analytical Method: Mod. 8015B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: N/A
 Analyzed By: LD
 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		83.1	mg/Kg	1	100	83	10 - 250.4

Sample: 154491 - MW-23 20'

Analysis: TPH GRO
 QC Batch: 46823
 Prep Batch: 40266

Analytical Method: S 8015B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: S 5035
 Analyzed By: DC
 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	74.9 - 140.5

²High surrogate recovery. Sample non-detect, result bias high.

Sample: 154492 - MW-23 35'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154492 - MW-23 35'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		84.4	mg/Kg	1	100	84	10 - 250.4

Sample: 154492 - MW-23 35'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.970	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	74.9 - 140.5

³High surrogate recovery. Sample non-detect, result bias high.

Sample: 154493 - MW-24 5'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	4	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154493 - MW-24 5'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		82.1	mg/Kg	1	100	82	10 - 250.4

Sample: 154493 - MW-24 5'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.967	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	74.9 - 140.5

⁴High surrogate recovery. Sample non-detect, result bias high.

Sample: 154494 - MW-24 20'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁵	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154494 - MW-24 20'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		72.6	mg/Kg	1	100	73	10 - 250.4

Sample: 154494 - MW-24 20'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.973	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	1	1.00	98	74.9 - 140.5

⁵High surrogate recovery. Sample non-detect, result bias high.

Sample: 154495 - MW-24 35'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁶	1.11	mg/Kg	1	1.00	111	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154495 - MW-24 35'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		89.6	mg/Kg	1	100	90	10 - 250.4

Sample: 154495 - MW-24 35'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.989	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.998	mg/Kg	1	1.00	100	74.9 - 140.5

⁶High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 46817

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<15.8	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		93.9	mg/Kg	1	100	94	30.9 - 146.4

Method Blank (1) QC Batch: 46818

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0110	mg/Kg	0.01
Toluene		<0.0109	mg/Kg	0.01
Ethylbenzene		<0.0109	mg/Kg	0.01
Xylene		<0.0331	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	82.3 - 121.6
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	72 - 123

Method Blank (1) QC Batch: 46823

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.685	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.987	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.927	mg/Kg	1	1.00	93	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	297	mg/Kg	1	250	<15.8	119	27.8 - 152.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	300	mg/Kg	1	250	<15.8	120	27.8 - 152.1	1	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
n-Triacontane	122	120	mg/Kg	1	100	122	120	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.08	mg/Kg	1	1.00	<0.0110	108	72.7 - 129.8
Toluene	1.09	mg/Kg	1	1.00	<0.0109	109	71.6 - 129.6
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.0109	110	70.8 - 129.7
Xylene	3.37	mg/Kg	1	3.00	<0.0331	112	70.9 - 129.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.978	mg/Kg	1	1.00	<0.0110	98	72.7 - 129.8	10	20
Toluene	0.983	mg/Kg	1	1.00	<0.0109	98	71.6 - 129.6	10	20
Ethylbenzene	0.998	mg/Kg	1	1.00	<0.0109	100	70.8 - 129.7	10	20
Xylene	3.07	mg/Kg	1	3.00	<0.0331	102	70.9 - 129.4	9	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)	1.14	1.14	mg/Kg	1	1.00	114	114	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	1.15	1.16	mg/Kg	1	1.00	115	116	73.8 - 122.4

Laboratory Control Spike (LCS-1)

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.70	mg/Kg	1	10.0	0.685	80	69.6 - 97.3

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.70	mg/Kg	1	10.0	0.685	90	69.6 - 97.3	11	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.07	1.05	mg/Kg	1	1.00	107	105	70 - 130
4-Bromofluorobenzene (4-BFB)	1.03	1.03	mg/Kg	1	1.00	103	103	70 - 130

Matrix Spike (MS-1) Spiked Sample: 154490

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	370	mg/Kg	1	250	<15.8	148	18 - 179.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	298	mg/Kg	1	250	<15.8	119	18 - 179.5	22	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	128	128	mg/Kg	1	100	128	128	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	⁸ 2.20	mg/Kg	1	1.00	<0.0110	220	58.6 - 165.2
Toluene	⁹ 2.26	mg/Kg	1	1.00	<0.0109	226	64.2 - 153.8
Ethylbenzene	¹⁰ 2.33	mg/Kg	1	1.00	<0.0109	233	61.6 - 159.4
Xylene	¹¹ 6.84	mg/Kg	1	3.00	<0.0331	228	64.4 - 155.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	¹² 1.62	mg/Kg	1	1.00	<0.0110	162	58.6 - 165.2	30	20

continued ...

⁷MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	¹³	1.65	mg/Kg	1	1.00	<0.0109	165	64.2 - 153.8	31	20
Ethylbenzene	¹⁴	1.66	mg/Kg	1	1.00	<0.0109	166	61.6 - 159.4	34	20
Xylene	¹⁵	5.03	mg/Kg	1	3.00	<0.0331	168	64.4 - 155.3	30	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.12	1.13	mg/Kg	1	1	112	113	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)	1.16	1.17	mg/Kg	1	1	116	117	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	¹⁶	17.3	mg/Kg	1	10.0	<0.171	173	22.3 - 134.6

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹⁷	23.0	mg/Kg	1	10.0	<0.171	230	22.3 - 134.6	28	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.975	0.978	mg/Kg	1	1	98	98	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)	1.05	1.12	mg/Kg	1	1	105	112	66.7 - 134.3

Standard (ICV-1)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

¹³Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁴Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁵Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁶Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁷Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.109	109	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.346	115	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.112	112	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.343	114	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.978	98	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2008-03-25

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name:

Address:

City, State, Zip

Contact Person:

Shanna Smith

Invoice to:

PLAINS Camille Reynolds

Project #:

PLAINS 47 SPL SR 5# 2003-20017 Hobbs Junction Mainline

Project Location (including state):

Hobbs, N.M.

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
154490	MW-23 5'	1	4oz	X								X		3/24/08	11:31
491	MW-23 20'	1	4oz	X								X		3/27/08	11:43
492	MW-23 35'	1	4oz	X								X		3/29/08	11:53
493	MW-24 5'	1	4oz	X								X		3/27/08	15:04
494	MW-24 20'	1	4oz	X								X		3/29/08	15:14
495	MW-24 35'	1	4oz	X								X		3/27/08	15:23

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shanna Smith	3/24/08	14:00	Shanna Smith	3/24/08	16:04
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

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

ORIGINAL COPY

LAB Order ID # 8032420

Page 1 of 1

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ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 EX(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	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	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard
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LAB USE ONLY

REMARKS:

all tests - midland

Infect ☐ / N
Headspace ☒ Y / N
Temp 3.9°C
Log-in-Review 2D

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Larry J. Smith



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: April 17, 2008

Work Order: 8032711



Project Location: Hobbs, NM
Project Name: Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

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
154838	MW-23	water	2008-03-25	12:18	2008-03-25
154839	MW-24	water	2008-03-25	12:41	2008-03-25

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.

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 154838 - MW-23

Analysis: Semivolatiles
QC Batch: 47137
Prep Batch: 40542

Analytical Method: S 8270C
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-01

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
N-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
N-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
N-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
N-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500

continued ...

sample 154838 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500
2,6-Dinitrotoluene		<0.00500	mg/L	1	0.00500
3-Nitroaniline		<0.00500	mg/L	1	0.00500
Acenaphthene		<0.00500	mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500	mg/L	1	0.00500
Dibenzofuran		<0.00500	mg/L	1	0.00500
Pentachlorobenzene		<0.00500	mg/L	1	0.00500
4-Nitrophenol		<0.0250	mg/L	1	0.0250
2,4-Dinitrotoluene		<0.00500	mg/L	1	0.00500
1-Naphthylamine		<0.00500	mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100	mg/L	1	0.0100
2-Naphthylamine		<0.00500	mg/L	1	0.00500
Fluorene		<0.00500	mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500	mg/L	1	0.00500
Diethylphthalate		<0.00500	mg/L	1	0.00500
4-Nitroaniline		<0.00500	mg/L	1	0.00500
Diphenylhydrazine		<0.00500	mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500	mg/L	1	0.00500
Diphenylamine		<0.00500	mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500	mg/L	1	0.00500
Phenacetin		<0.00500	mg/L	1	0.00500
Hexachlorobenzene		<0.00500	mg/L	1	0.00500
4-Aminobiphenyl		<0.00500	mg/L	1	0.00500
Pentachlorophenol		<0.0100	mg/L	1	0.0100
Anthracene		<0.00500	mg/L	1	0.00500
Pentachloronitrobenzene		<0.00500	mg/L	1	0.00500
Pronamide		<0.00500	mg/L	1	0.00500
Phenanthrene		<0.00500	mg/L	1	0.00500
Di-n-butylphthalate		<0.00500	mg/L	1	0.00500
Fluoranthene		<0.00500	mg/L	1	0.00500
Benzidine		<0.0250	mg/L	1	0.0250
Pyrene		<0.00500	mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500	mg/L	1	0.00500
Butylbenzylphthalate		<0.00500	mg/L	1	0.00500
Benzo(a)anthracene		<0.00500	mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500	mg/L	1	0.00500
Chrysene		<0.00500	mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500	mg/L	1	0.00500
Di-n-octylphthalate		<0.00500	mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500	mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500	mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500	mg/L	1	0.00500
Benzo(a)pyrene		<0.00500	mg/L	1	0.00500
3-Methylcholanthrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500	mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500	mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500	mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0155	mg/L	1	0.0800	19	10 - 84.7
Phenol-d5		0.0109	mg/L	1	0.0800	14	10 - 54.9
Nitrobenzene-d5		0.0478	mg/L	1	0.0800	60	10 - 202
2-Fluorobiphenyl		0.0551	mg/L	1	0.0800	69	10 - 199
2,4,6-Tribromophenol		0.0513	mg/L	1	0.0800	64	10 - 141
Terphenyl-d14		0.0752	mg/L	1	0.0800	94	10 - 160

Sample: 154838 - MW-23

Analysis: Volatiles
 QC Batch: 47115
 Prep Batch: 40517

Analytical Method: S 8260B
 Date Analyzed: 2008-04-03
 Sample Preparation: 2008-04-03

Prep Method: S 5030B
 Analyzed By: KB
 Prepared By: KB

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
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

continued ...

sample 154838 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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		49.1	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.7	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.8	µg/L	1	50.0	96	88.4 - 103

Sample: 154839 - MW-24

Analysis: Semivolatiles
QC Batch: 47137
Prep Batch: 40542

Analytical Method: S 8270C
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-01

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
N-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
N-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
N-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
N-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500
2,6-Dinitrotoluene		<0.00500	mg/L	1	0.00500
3-Nitroaniline		<0.00500	mg/L	1	0.00500
Acenaphthene		<0.00500	mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500	mg/L	1	0.00500
Dibenzofuran		<0.00500	mg/L	1	0.00500

continued ...

sample 154839 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachlorobenzene		<0.00500	mg/L	1	0.00500
4-Nitrophenol		<0.0250	mg/L	1	0.0250
2,4-Dinitrotoluene		<0.00500	mg/L	1	0.00500
1-Naphthylamine		<0.00500	mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100	mg/L	1	0.0100
2-Naphthylamine		<0.00500	mg/L	1	0.00500
Fluorene		<0.00500	mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500	mg/L	1	0.00500
Diethylphthalate		<0.00500	mg/L	1	0.00500
4-Nitroaniline		<0.00500	mg/L	1	0.00500
Diphenylhydrazine		<0.00500	mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500	mg/L	1	0.00500
Diphenylamine		<0.00500	mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500	mg/L	1	0.00500
Phenacetin		<0.00500	mg/L	1	0.00500
Hexachlorobenzene		<0.00500	mg/L	1	0.00500
4-Aminobiphenyl		<0.00500	mg/L	1	0.00500
Pentachlorophenol		<0.0100	mg/L	1	0.0100
Anthracene		<0.00500	mg/L	1	0.00500
Pentachloronitrobenzene		<0.00500	mg/L	1	0.00500
Pronamide		<0.00500	mg/L	1	0.00500
Phenanthrene		<0.00500	mg/L	1	0.00500
Di-n-butylphthalate		<0.00500	mg/L	1	0.00500
Fluoranthene		<0.00500	mg/L	1	0.00500
Benzidine		<0.0250	mg/L	1	0.0250
Pyrene		<0.00500	mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500	mg/L	1	0.00500
Butylbenzylphthalate		<0.00500	mg/L	1	0.00500
Benzo(a)anthracene		<0.00500	mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500	mg/L	1	0.00500
Chrysene		<0.00500	mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500	mg/L	1	0.00500
Di-n-octylphthalate		<0.00500	mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500	mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500	mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500	mg/L	1	0.00500
Benzo(a)pyrene		<0.00500	mg/L	1	0.00500
3-Methylcholanthrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500	mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500	mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500	mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0156	mg/L	1	0.0800	20	10 - 84.7
Phenol-d5		0.0112	mg/L	1	0.0800	14	10 - 54.9
Nitrobenzene-d5		0.0493	mg/L	1	0.0800	62	10 - 202
2-Fluorobiphenyl		0.0547	mg/L	1	0.0800	68	10 - 199

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,6-Tribromophenol		0.0433	mg/L	1	0.0800	54	10 - 141
Terphenyl-d14		0.0704	mg/L	1	0.0800	88	10 - 160

Sample: 154839 - MW-24

Analysis: Volatiles
 QC Batch: 47115
 Prep Batch: 40517

Analytical Method: S 8260B
 Date Analyzed: 2008-04-03
 Sample Preparation: 2008-04-03

Prep Method: S 5030B
 Analyzed By: KB
 Prepared By: KB

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
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

continued ...

sample 154839 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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		49.2	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.8	µg/L	1	50.0	100	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.9	µg/L	1	50.0	96	88.4 - 103

Method Blank (1) QC Batch: 47115

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.197	µg/L	1
Dichlorodifluoromethane		<0.672	µg/L	1
Chloromethane (methyl chloride)		<0.542	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Vinyl Chloride		<0.516	µg/L	1
Bromomethane (methyl bromide)		<0.446	µg/L	5
Chloroethane		<0.656	µg/L	1
Trichlorofluoromethane		<0.538	µg/L	1
Acetone		<1.10	µg/L	10
Iodomethane (methyl iodide)		<0.214	µg/L	5
Carbon Disulfide		<0.294	µg/L	1
Acrylonitrile		<0.442	µg/L	1
2-Butanone (MEK)		<0.420	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.407	µg/L	5
2-Hexanone		<0.486	µg/L	5
trans 1,4-Dichloro-2-butene		<0.463	µg/L	10
1,1-Dichloroethene		<0.237	µg/L	1
Methylene chloride		<0.312	µg/L	5
MTBE		<0.318	µg/L	1
trans-1,2-Dichloroethene		<0.217	µg/L	1
1,1-Dichloroethane		<0.202	µg/L	1
cis-1,2-Dichloroethene		<0.309	µg/L	1
2,2-Dichloropropane		<0.318	µg/L	1
1,2-Dichloroethane (EDC)		<0.292	µg/L	1
Chloroform		<0.234	µg/L	1
1,1,1-Trichloroethane		<0.257	µg/L	1
1,1-Dichloropropene		<0.286	µg/L	1
Benzene		<0.319	µg/L	1
Carbon Tetrachloride		<0.223	µg/L	1
1,2-Dichloropropane		<0.266	µg/L	1
Trichloroethene (TCE)		<0.235	µg/L	1
Dibromomethane (methylene bromide)		<0.341	µg/L	1
Bromodichloromethane		<0.291	µg/L	1
2-Chloroethyl vinyl ether		<0.293	µg/L	5
cis-1,3-Dichloropropene		<0.207	µg/L	1
trans-1,3-Dichloropropene		<0.293	µg/L	1
Toluene		<0.268	µg/L	1
1,1,2-Trichloroethane		<0.329	µg/L	1
1,3-Dichloropropane		<0.316	µg/L	1
Dibromochloromethane		<0.290	µg/L	1
1,2-Dibromoethane (EDB)		<0.229	µg/L	1
Tetrachloroethene (PCE)		<0.233	µg/L	1
Chlorobenzene		<0.276	µg/L	1
1,1,1,2-Tetrachloroethane		<0.226	µg/L	1
Ethylbenzene		<0.245	µg/L	1
m,p-Xylene		<0.517	µg/L	1
Bromoform		<0.175	µg/L	1
Styrene		<0.239	µg/L	1
o-Xylene		<0.247	µg/L	1
1,1,2,2-Tetrachloroethane		<0.223	µg/L	1
2-Chlorotoluene		<0.235	µg/L	1
1,2,3-Trichloropropane		<0.230	µg/L	1
Isopropylbenzene		<0.226	µg/L	1
Bromobenzene		<0.245	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
n-Propylbenzene		<0.234	µg/L	1
1,3,5-Trimethylbenzene		<0.261	µg/L	1
tert-Butylbenzene		<0.281	µg/L	1
1,2,4-Trimethylbenzene		<0.285	µg/L	1
1,4-Dichlorobenzene (para)		<0.307	µg/L	1
sec-Butylbenzene		<0.312	µg/L	1
1,3-Dichlorobenzene (meta)		<0.284	µg/L	1
p-Isopropyltoluene		<0.244	µg/L	1
4-Chlorotoluene		<0.257	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.294	µg/L	1
n-Butylbenzene		<0.339	µg/L	1
1,2-Dibromo-3-chloropropane		<0.780	µg/L	5
1,2,3-Trichlorobenzene		<0.736	µg/L	5
1,2,4-Trichlorobenzene		<0.432	µg/L	5
Naphthalene		<0.475	µg/L	5
Hexachlorobutadiene		<1.02	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.2	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		50.5	µg/L	1	50.0	101	93.2 - 108
4-Bromofluorobenzene (4-BFB)		48.9	µg/L	1	50.0	98	88.4 - 103

Method Blank (1) QC Batch: 47137

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Pyridine		<0.00188	mg/L	0.005
N-Nitrosodimethylamine		<0.00180	mg/L	0.005
2-Picoline		<0.00181	mg/L	0.005
Methyl methanesulfonate		<0.00220	mg/L	0.005
Ethyl methanesulfonate		<0.00260	mg/L	0.005
Phenol		<0.00231	mg/L	0.005
Aniline		<0.00200	mg/L	0.005
bis(2-chloroethyl)ether		<0.00180	mg/L	0.005
2-Chlorophenol		<0.00190	mg/L	0.005
1,3-Dichlorobenzene (meta)		<0.00181	mg/L	0.005
1,4-Dichlorobenzene (para)		<0.00179	mg/L	0.005
Benzyl alcohol		<0.00244	mg/L	0.005
1,2-Dichlorobenzene (ortho)		<0.00173	mg/L	0.005
2-Methylphenol		<0.00230	mg/L	0.005
bis(2-chloroisopropyl)ether		<0.00209	mg/L	0.005
4-Methylphenol / 3-Methylphenol		<0.00229	mg/L	0.005
N-Nitrosodi-n-propylamine		<0.00236	mg/L	0.005
Hexachloroethane		<0.00189	mg/L	0.005
Acetophenone		<0.00211	mg/L	0.005

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Nitrobenzene		<0.00192	mg/L	0.005
N-Nitrosopiperidine		<0.00208	mg/L	0.005
Isophorone		<0.00206	mg/L	0.005
2-Nitrophenol		<0.00189	mg/L	0.005
2,4-Dimethylphenol		<0.00209	mg/L	0.005
bis(2-chloroethoxy)methane		<0.00216	mg/L	0.005
2,4-Dichlorophenol		<0.00192	mg/L	0.005
1,2,4-Trichlorobenzene		<0.00176	mg/L	0.005
Benzoic acid		<0.00765	mg/L	0.005
Naphthalene		<0.00187	mg/L	0.005
a,a-Dimethylphenethylamine		<0.00146	mg/L	0.005
4-Chloroaniline		<0.00210	mg/L	0.005
2,6-Dichlorophenol		<0.00199	mg/L	0.01
Hexachlorobutadiene		<0.00186	mg/L	0.005
N-Nitroso-di-n-butylamine		<0.00214	mg/L	0.005
4-Chloro-3-methylphenol		<0.00182	mg/L	0.005
2-Methylnaphthalene		<0.00206	mg/L	0.005
1-Methylnaphthalene		<0.00205	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.00211	mg/L	0.005
Hexachlorocyclopentadiene		<0.00175	mg/L	0.005
2,4,6-Trichlorophenol		<0.00200	mg/L	0.01
2,4,5-Trichlorophenol		<0.00176	mg/L	0.005
2-Chloronaphthalene		<0.00200	mg/L	0.005
1-Chloronaphthalene		<0.00259	mg/L	0.005
2-Nitroaniline		<0.00167	mg/L	0.005
Dimethylphthalate		<0.00160	mg/L	0.005
Acenaphthylene		<0.00201	mg/L	0.005
2,6-Dinitrotoluene		<0.00158	mg/L	0.005
3-Nitroaniline		<0.00166	mg/L	0.005
Acenaphthene		<0.00191	mg/L	0.005
2,4-Dinitrophenol		<0.000621	mg/L	0.005
Dibenzofuran		<0.00185	mg/L	0.005
Pentachlorobenzene		<0.00189	mg/L	0.005
4-Nitrophenol		<0.00156	mg/L	0.025
2,4-Dinitrotoluene		<0.00187	mg/L	0.005
1-Naphthylamine		<0.00149	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.00162	mg/L	0.01
2-Naphthylamine		<0.00157	mg/L	0.005
Fluorene		<0.00182	mg/L	0.005
4-Chlorophenyl-phenylether		<0.00188	mg/L	0.005
Diethylphthalate		<0.00182	mg/L	0.005
4-Nitroaniline		<0.00182	mg/L	0.005
Diphenylhydrazine		<0.00184	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.00109	mg/L	0.005
Diphenylamine		<0.00193	mg/L	0.005
4-Bromophenyl-phenylether		<0.00179	mg/L	0.005
Phenacetin		<0.00190	mg/L	0.005
Hexachlorobenzene		<0.00193	mg/L	0.005
4-Aminobiphenyl		<0.00185	mg/L	0.005
Pentachlorophenol		<0.00130	mg/L	0.01

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Anthracene		<0.00190	mg/L	0.005
Pentachloronitrobenzene		<0.00187	mg/L	0.005
Pronamide		<0.00182	mg/L	0.005
Phenanthrene		<0.00186	mg/L	0.005
Di-n-butylphthalate		<0.00180	mg/L	0.005
Fluoranthene		<0.00184	mg/L	0.005
Benzidine		<0.00156	mg/L	0.025
Pyrene		<0.00165	mg/L	0.005
p-Dimethylaminoazobenzene		<0.00145	mg/L	0.005
Butylbenzylphthalate		<0.00165	mg/L	0.005
Benzo(a)anthracene		<0.00157	mg/L	0.005
3,3-Dichlorobenzidine		<0.00162	mg/L	0.005
Chrysene		<0.00162	mg/L	0.005
bis(2-ethylhexyl)phthalate		<0.00171	mg/L	0.005
Di-n-octylphthalate		<0.00136	mg/L	0.005
Benzo(b)fluoranthene		<0.00160	mg/L	0.005
Benzo(k)fluoranthene		<0.00179	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.00152	mg/L	0.005
Benzo(a)pyrene		<0.00161	mg/L	0.005
3-Methylcholanthrene		<0.00147	mg/L	0.005
Dibenzo(a,j)acridine		<0.00154	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.00160	mg/L	0.005
Dibenzo(a,h)anthracene		<0.00180	mg/L	0.005
Benzo(g,h,i)perylene		<0.00166	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0187	mg/L	1	0.0800	23	10 - 66.9
Phenol-d5		0.0125	mg/L	1	0.0800	16	10 - 50.7
Nitrobenzene-d5		0.0529	mg/L	1	0.0800	66	10 - 124
2-Fluorobiphenyl		0.0548	mg/L	1	0.0800	68	10 - 127
2,4,6-Tribromophenol		0.0445	mg/L	1	0.0800	56	10 - 138
Terphenyl-d14		0.0688	mg/L	1	0.0800	86	10 - 143

Laboratory Control Spike (LCS-1)

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	51.1	µg/L	1	50.0	<0.197	102	91.8 - 112
Dichlorodifluoromethane	52.4	µg/L	1	50.0	<0.672	105	40.7 - 133
Chloromethane (methyl chloride)	49.3	µg/L	1	50.0	<0.542	99	61.4 - 130
Vinyl Chloride	52.5	µg/L	1	50.0	<0.516	105	65.4 - 127
Bromomethane (methyl bromide)	51.5	µg/L	1	50.0	<0.446	103	61 - 140
Chloroethane	51.7	µg/L	1	50.0	<0.656	103	72.1 - 121
Trichlorofluoromethane	53.2	µg/L	1	50.0	<0.538	106	77.1 - 116

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Acetone	56.5	µg/L	1	50.0	<1.10	113	10 - 169
Iodomethane (methyl iodide)	51.9	µg/L	1	50.0	<0.214	104	84.4 - 118
Carbon Disulfide	52.3	µg/L	1	50.0	<0.294	105	84.7 - 116
Acrylonitrile	48.5	µg/L	1	50.0	<0.442	97	88.5 - 119
2-Butanone (MEK)	56.9	µg/L	1	50.0	<0.420	114	38.2 - 134
4-Methyl-2-pentanone (MIBK)	52.7	µg/L	1	50.0	<0.407	105	90.4 - 114
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145
trans-1,4-Dichloro-2-butene	51.8	µg/L	1	50.0	<0.463	104	75.5 - 133
1,1-Dichloroethene	51.9	µg/L	1	50.0	<0.237	104	86.8 - 110
Methylene chloride	49.5	µg/L	1	50.0	<0.312	99	84.4 - 114
MTBE	49.1	µg/L	1	50.0	<0.318	98	88.3 - 115
trans-1,2-Dichloroethene	50.3	µg/L	1	50.0	<0.217	101	89.1 - 109
1,1-Dichloroethane	51.2	µg/L	1	50.0	<0.202	102	85 - 114
cis-1,2-Dichloroethene	50.5	µg/L	1	50.0	<0.309	101	91.2 - 109
2,2-Dichloropropane	44.1	µg/L	1	50.0	<0.318	88	63.4 - 132
1,2-Dichloroethane (EDC)	49.9	µg/L	1	50.0	<0.292	100	82.2 - 113
Chloroform	50.0	µg/L	1	50.0	<0.234	100	86.5 - 111
1,1,1-Trichloroethane	49.1	µg/L	1	50.0	<0.257	98	89.7 - 109
1,1-Dichloropropene	49.5	µg/L	1	50.0	<0.286	99	89.7 - 110
Benzene	49.7	µg/L	1	50.0	<0.319	99	87.6 - 107
Carbon Tetrachloride	49.1	µg/L	1	50.0	<0.223	98	92.1 - 111
1,2-Dichloropropane	50.5	µg/L	1	50.0	<0.266	101	91.8 - 111
Trichloroethene (TCE)	51.6	µg/L	1	50.0	<0.235	103	85.4 - 113
Dibromomethane (methylene bromide)	50.2	µg/L	1	50.0	<0.341	100	93.2 - 108
Bromodichloromethane	50.8	µg/L	1	50.0	<0.291	102	93.6 - 113
2-Chloroethyl vinyl ether	51.9	µg/L	1	50.0	<0.293	104	91.8 - 111
cis-1,3-Dichloropropene	51.0	µg/L	1	50.0	<0.207	102	94.6 - 117
trans-1,3-Dichloropropene	51.7	µg/L	1	50.0	<0.293	103	90.2 - 119
Toluene	49.9	µg/L	1	50.0	<0.268	100	91.3 - 110
1,1,2-Trichloroethane	50.9	µg/L	1	50.0	<0.329	102	94.3 - 106
1,3-Dichloropropane	50.6	µg/L	1	50.0	<0.316	101	92.2 - 108
Dibromochloromethane	53.2	µg/L	1	50.0	<0.290	106	92.1 - 122
1,2-Dibromoethane (EDB)	52.5	µg/L	1	50.0	<0.229	105	98.2 - 106
Tetrachloroethene (PCE)	57.8	µg/L	1	50.0	<0.233	116	20.2 - 156
Chlorobenzene	51.0	µg/L	1	50.0	<0.276	102	92.9 - 103
1,1,1,2-Tetrachloroethane	50.9	µg/L	1	50.0	<0.226	102	99.3 - 105
Ethylbenzene	49.8	µg/L	1	50.0	<0.245	100	90.5 - 107
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144
Styrene	49.2	µg/L	1	50.0	<0.239	98	94.3 - 113
o-Xylene	49.9	µg/L	1	50.0	<0.247	100	91.2 - 112
1,1,2,2-Tetrachloroethane	51.2	µg/L	1	50.0	<0.223	102	74.9 - 133
2-Chlorotoluene	48.9	µg/L	1	50.0	<0.235	98	87.4 - 110
1,2,3-Trichloropropane	51.9	µg/L	1	50.0	<0.230	104	86.6 - 114
Isopropylbenzene	50.1	µg/L	1	50.0	<0.226	100	87.6 - 115
Bromobenzene	49.6	µg/L	1	50.0	<0.245	99	91.3 - 105
n-Propylbenzene	49.2	µg/L	1	50.0	<0.234	98	84.4 - 113
1,3,5-Trimethylbenzene	49.3	µg/L	1	50.0	<0.261	99	89.3 - 109
tert-Butylbenzene	50.0	µg/L	1	50.0	<0.281	100	93.2 - 106
1,2,4-Trimethylbenzene	49.7	µg/L	1	50.0	<0.285	99	89.6 - 115

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,4-Dichlorobenzene (para)	51.4	µg/L	1	50.0	<0.307	103	88.4 - 106
sec-Butylbenzene	50.1	µg/L	1	50.0	<0.312	100	87.2 - 113
1,3-Dichlorobenzene (meta)	51.4	µg/L	1	50.0	<0.284	103	91.1 - 109
p-Isopropyltoluene	50.8	µg/L	1	50.0	<0.244	102	92.2 - 109
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110
1,2-Dichlorobenzene (ortho)	52.4	µg/L	1	50.0	<0.294	105	91.3 - 110
n-Butylbenzene	52.6	µg/L	1	50.0	<0.339	105	86.8 - 113
1,2-Dibromo-3-chloropropane	49.2	µg/L	1	50.0	<0.780	98	72.3 - 130
1,2,3-Trichlorobenzene	52.8	µg/L	1	50.0	<0.736	106	81.2 - 202
1,2,4-Trichlorobenzene	51.8	µg/L	1	50.0	<0.432	104	65 - 145
Naphthalene	51.9	µg/L	1	50.0	<0.475	104	84.5 - 150
Hexachlorobutadiene	52.1	µg/L	1	50.0	<1.02	104	70.2 - 133

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	50.7	µg/L	1	50.0	<0.197	101	91.8 - 112	1	20
Dichlorodifluoromethane	51.0	µg/L	1	50.0	<0.672	102	40.7 - 133	3	20
Chloromethane (methyl chloride)	49.0	µg/L	1	50.0	<0.542	98	61.4 - 130	1	20
Vinyl Chloride	51.0	µg/L	1	50.0	<0.516	102	65.4 - 127	3	20
Bromomethane (methyl bromide)	49.8	µg/L	1	50.0	<0.446	100	61 - 140	3	20
Chloroethane	51.0	µg/L	1	50.0	<0.656	102	72.1 - 121	1	20
Trichlorofluoromethane	51.4	µg/L	1	50.0	<0.538	103	77.1 - 116	3	20
Acetone	55.1	µg/L	1	50.0	<1.10	110	10 - 169	2	20
Iodomethane (methyl iodide)	51.7	µg/L	1	50.0	<0.214	103	84.4 - 118	0	20
Carbon Disulfide	51.9	µg/L	1	50.0	<0.294	104	84.7 - 116	1	20
Acrylonitrile	49.1	µg/L	1	50.0	<0.442	98	88.5 - 119	1	20
2-Butanone (MEK)	54.9	µg/L	1	50.0	<0.420	110	38.2 - 134	4	20
4-Methyl-2-pentanone (MIBK)	52.0	µg/L	1	50.0	<0.407	104	90.4 - 114	1	20
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145	0	20
trans 1,4-Dichloro-2-butene	51.3	µg/L	1	50.0	<0.463	103	75.5 - 133	1	20
1,1-Dichloroethene	51.2	µg/L	1	50.0	<0.237	102	86.8 - 110	1	20
Methylene chloride	49.6	µg/L	1	50.0	<0.312	99	84.4 - 114	0	20
MTBE	49.7	µg/L	1	50.0	<0.318	99	88.3 - 115	1	20
trans-1,2-Dichloroethene	49.8	µg/L	1	50.0	<0.217	100	89.1 - 109	1	20
1,1-Dichloroethane	51.1	µg/L	1	50.0	<0.202	102	85 - 114	0	20
cis-1,2-Dichloroethene	50.4	µg/L	1	50.0	<0.309	101	91.2 - 109	0	20
2,2-Dichloropropane	44.4	µg/L	1	50.0	<0.318	89	63.4 - 132	1	20
1,2-Dichloroethane (EDC)	49.7	µg/L	1	50.0	<0.292	99	82.2 - 113	0	20
Chloroform	50.1	µg/L	1	50.0	<0.234	100	86.5 - 111	0	20
1,1,1-Trichloroethane	49.7	µg/L	1	50.0	<0.257	99	89.7 - 109	1	20
1,1-Dichloropropene	50.7	µg/L	1	50.0	<0.286	101	89.7 - 110	2	20
Benzene	50.6	µg/L	1	50.0	<0.319	101	87.6 - 107	2	20
Carbon Tetrachloride	50.2	µg/L	1	50.0	<0.223	100	92.1 - 111	2	20
1,2-Dichloropropane	51.4	µg/L	1	50.0	<0.266	103	91.8 - 111	2	20
Trichloroethene (TCE)	54.1	µg/L	1	50.0	<0.235	108	85.4 - 113	5	20
Dibromomethane (methylene bromide)	51.0	µg/L	1	50.0	<0.341	102	93.2 - 108	2	20
Bromodichloromethane	51.3	µg/L	1	50.0	<0.291	103	93.6 - 113	1	20
2-Chloroethyl vinyl ether	54.2	µg/L	1	50.0	<0.293	108	91.8 - 111	4	20
cis-1,3-Dichloropropene	51.8	µg/L	1	50.0	<0.207	104	94.6 - 117	2	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
trans-1,3-Dichloropropene	52.6	µg/L	1	50.0	<0.293	105	90.2 - 119	2	20
Toluene	50.5	µg/L	1	50.0	<0.268	101	91.3 - 110	1	20
1,1,2-Trichloroethane	50.8	µg/L	1	50.0	<0.329	102	94.3 - 106	0	20
1,3-Dichloropropane	50.1	µg/L	1	50.0	<0.316	100	92.2 - 108	1	20
Dibromochloromethane	52.7	µg/L	1	50.0	<0.290	105	92.1 - 122	1	20
1,2-Dibromoethane (EDB)	52.1	µg/L	1	50.0	<0.229	104	98.2 - 106	1	20
Tetrachloroethene (PCE)	61.9	µg/L	1	50.0	<0.233	124	20.2 - 156	7	20
Chlorobenzene	50.8	µg/L	1	50.0	<0.276	102	92.9 - 103	0	20
1,1,1,2-Tetrachloroethane	51.0	µg/L	1	50.0	<0.226	102	99.3 - 105	0	20
Ethylbenzene	49.5	µg/L	1	50.0	<0.245	99	90.5 - 107	1	20
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111	0	20
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144	0	20
Styrene	49.3	µg/L	1	50.0	<0.239	99	94.3 - 113	0	20
o-Xylene	49.8	µg/L	1	50.0	<0.247	100	91.2 - 112	0	20
1,1,2,2-Tetrachloroethane	48.5	µg/L	1	50.0	<0.223	97	74.9 - 133	5	20
2-Chlorotoluene	48.6	µg/L	1	50.0	<0.235	97	87.4 - 110	1	20
1,2,3-Trichloropropane	51.7	µg/L	1	50.0	<0.230	103	86.6 - 114	0	20
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	87.6 - 115	1	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	91.3 - 105	1	20
n-Propylbenzene	48.9	µg/L	1	50.0	<0.234	98	84.4 - 113	1	20
1,3,5-Trimethylbenzene	48.8	µg/L	1	50.0	<0.261	98	89.3 - 109	1	20
tert-Butylbenzene	49.8	µg/L	1	50.0	<0.281	100	93.2 - 106	0	20
1,2,4-Trimethylbenzene	49.4	µg/L	1	50.0	<0.285	99	89.6 - 115	1	20
1,4-Dichlorobenzene (para)	51.1	µg/L	1	50.0	<0.307	102	88.4 - 106	1	20
sec-Butylbenzene	49.8	µg/L	1	50.0	<0.312	100	87.2 - 113	1	20
1,3-Dichlorobenzene (meta)	51.2	µg/L	1	50.0	<0.284	102	91.1 - 109	0	20
p-Isopropyltoluene	50.4	µg/L	1	50.0	<0.244	101	92.2 - 109	1	20
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110	0	20
1,2-Dichlorobenzene (ortho)	52.0	µg/L	1	50.0	<0.294	104	91.3 - 110	1	20
n-Butylbenzene	52.3	µg/L	1	50.0	<0.339	105	86.8 - 113	1	20
1,2-Dibromo-3-chloropropane	49.4	µg/L	1	50.0	<0.780	99	72.3 - 130	0	20
1,2,3-Trichlorobenzene	51.2	µg/L	1	50.0	<0.736	102	81.2 - 202	3	20
1,2,4-Trichlorobenzene	50.3	µg/L	1	50.0	<0.432	101	65 - 145	3	20
Naphthalene	50.6	µg/L	1	50.0	<0.475	101	84.5 - 150	2	20
Hexachlorobutadiene	51.4	µg/L	1	50.0	<1.02	103	70.2 - 133	1	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	50.0	50.3	µg/L	1	50.0	100	101	89.5 - 107
Toluene-d8	49.6	50.0	µg/L	1	50.0	99	100	92.6 - 102
4-Bromofluorobenzene (4-BFB)	50.0	50.6	µg/L	1	50.0	100	101	95.2 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	0.0177	mg/L	1	0.0800	0	22	10 - 46.1
2-Chlorophenol	0.0528	mg/L	1	0.0800	0	66	10 - 123
1,4-Dichlorobenzene (para)	0.0516	mg/L	1	0.0800	0	64	10 - 118
N-Nitrosodi-n-propylamine	0.0901	mg/L	1	0.0800	0	113	10 - 132
1,2,4-Trichlorobenzene	0.0709	mg/L	1	0.0800	0	89	10 - 130
Naphthalene	0.0596	mg/L	1	0.0800	0	74	20.3 - 121
4-Chloro-3-methylphenol	0.0645	mg/L	1	0.0800	0	81	10 - 140
Acenaphthylene	0.0700	mg/L	1	0.0800	0	88	22.3 - 124
Acenaphthene	0.0653	mg/L	1	0.0800	0	82	18.8 - 134
Dibenzofuran	0.0671	mg/L	1	0.0800	0	84	37.5 - 102
4-Nitrophenol	0.00807	mg/L	1	0.0800	0	10	10 - 135
2,4-Dinitrotoluene	0.0618	mg/L	1	0.0800	0	77	13.6 - 152
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114
Pentachlorophenol	0.0529	mg/L	1	0.0800	0	66	10 - 144
Anthracene	0.0720	mg/L	1	0.0800	0	90	48.2 - 118
Phenanthrene	0.0698	mg/L	1	0.0800	0	87	45.5 - 121
Fluoranthene	0.0929	mg/L	1	0.0800	0	116	42.7 - 126
Pyrene	0.0673	mg/L	1	0.0800	0	84	26.8 - 155
Benzo(a)anthracene	0.0666	mg/L	1	0.0800	0	83	60.2 - 97.3
Chrysene	0.0654	mg/L	1	0.0800	0	82	56 - 92.4
Benzo(b)fluoranthene	0.0677	mg/L	1	0.0800	0	85	73.9 - 102
Benzo(k)fluoranthene	0.0722	mg/L	1	0.0800	0	90	45.6 - 143
Benzo(a)pyrene	0.0774	mg/L	1	0.0800	0	97	54.8 - 122
Indeno(1,2,3-cd)pyrene	0.0899	mg/L	1	0.0800	0	112	61.4 - 118
Dibenzo(a,h)anthracene	0.0876	mg/L	1	0.0800	0	110	64.9 - 118
Benzo(g,h,i)perylene	0.0861	mg/L	1	0.0800	0	108	46.8 - 129

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Phenol	0.0183	mg/L	1	0.0800	0	23	10 - 46.1	3	20
2-Chlorophenol	0.0522	mg/L	1	0.0800	0	65	10 - 123	1	20
1,4-Dichlorobenzene (para)	0.0508	mg/L	1	0.0800	0	64	10 - 118	2	20
N-Nitrosodi-n-propylamine	0.0892	mg/L	1	0.0800	0	112	10 - 132	1	20
1,2,4-Trichlorobenzene	0.0714	mg/L	1	0.0800	0	89	10 - 130	1	20
Naphthalene	0.0599	mg/L	1	0.0800	0	75	20.3 - 121	0	20
4-Chloro-3-methylphenol	0.0649	mg/L	1	0.0800	0	81	10 - 140	1	20
Acenaphthylene	0.0710	mg/L	1	0.0800	0	89	22.3 - 124	1	20
Acenaphthene	0.0667	mg/L	1	0.0800	0	83	18.8 - 134	2	20
Dibenzofuran	0.0674	mg/L	1	0.0800	0	84	37.5 - 102	0	20
4-Nitrophenol	0.00827	mg/L	1	0.0800	0	10	10 - 135	2	20
2,4-Dinitrotoluene	0.0623	mg/L	1	0.0800	0	78	13.6 - 152	1	20
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114	0	20
Pentachlorophenol	0.0539	mg/L	1	0.0800	0	67	10 - 144	2	20
Anthracene	0.0728	mg/L	1	0.0800	0	91	48.2 - 118	1	20
Phenanthrene	0.0712	mg/L	1	0.0800	0	89	45.5 - 121	2	20
Fluoranthene	0.0955	mg/L	1	0.0800	0	119	42.7 - 126	3	20
Pyrene	0.0671	mg/L	1	0.0800	0	84	26.8 - 155	0	20
Benzo(a)anthracene	0.0665	mg/L	1	0.0800	0	83	60.2 - 97.3	0	20
Chrysene	0.0651	mg/L	1	0.0800	0	81	56 - 92.4	0	20
Benzo(b)fluoranthene	0.0682	mg/L	1	0.0800	0	85	73.9 - 102	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(k)fluoranthene	0.0730	mg/L	1	0.0800	0	91	45.6 - 143	1	20
Benzo(a)pyrene	0.0780	mg/L	1	0.0800	0	98	54.8 - 122	1	20
Indeno(1,2,3-cd)pyrene	0.0919	mg/L	1	0.0800	0	115	61.4 - 118	2	20
Dibenzo(a,h)anthracene	0.0895	mg/L	1	0.0800	0	112	64.9 - 118	2	20
Benzo(g,h,i)perylene	0.0880	mg/L	1	0.0800	0	110	46.8 - 129	2	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
2-Fluorophenol	0.0248	0.0241	mg/L	1	0.0800	31	30	10 - 109
Phenol-d5	0.0198	0.0196	mg/L	1	0.0800	25	24	10 - 61.5
Nitrobenzene-d5	0.0772	0.0780	mg/L	1	0.0800	96	98	10 - 139
2-Fluorobiphenyl	0.0945	0.0960	mg/L	1	0.0800	118	120	10 - 139
2,4,6-Tribromophenol	0.0865	0.0857	mg/L	1	0.0800	108	107	10 - 161
Terphenyl-d14	0.0777	0.0778	mg/L	1	0.0800	97	97	10 - 144

Matrix Spike (MS-1) Spiked Sample: 155082

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.0	µg/L	1	50.0	<0.197	100	82.3 - 118
Dichlorodifluoromethane	41.7	µg/L	1	50.0	<0.672	83	24.2 - 131
Chloromethane (methyl chloride)	44.1	µg/L	1	50.0	<0.542	88	69.6 - 118
Vinyl Chloride	43.9	µg/L	1	50.0	<0.516	88	80.8 - 107
Bromomethane (methyl bromide)	45.2	µg/L	1	50.0	<0.446	90	74.8 - 126
Chloroethane	45.5	µg/L	1	50.0	<0.656	91	74.6 - 124
Trichlorofluoromethane	44.7	µg/L	1	50.0	<0.538	89	66.8 - 115
Acetone	¹ 64.5	µg/L	1	50.0	<1.10	129	15 - 80.4
Iodomethane (methyl iodide)	48.1	µg/L	1	50.0	<0.214	96	75.2 - 114
Carbon Disulfide	42.8	µg/L	1	50.0	<0.294	86	69 - 121
Acrylonitrile	48.1	µg/L	1	50.0	<0.442	96	69.6 - 135
2-Butanone (MEK)	² 70.1	µg/L	1	50.0	<0.420	140	28.1 - 108
4-Methyl-2-pentanone (MIBK)	³ 79.1	µg/L	1	50.0	<0.407	158	81.5 - 117
2-Hexanone	⁴ 108	µg/L	1	50.0	<0.486	216	44.6 - 122
trans 1,4-Dichloro-2-butene	50.9	µg/L	1	50.0	<0.463	102	48.3 - 128
1,1-Dichloroethene	45.0	µg/L	1	50.0	1.01	88	74.7 - 112
Methylene chloride	46.5	µg/L	1	50.0	<0.312	93	74.8 - 120
MTBE	48.2	µg/L	1	50.0	<0.318	96	73.5 - 125
trans-1,2-Dichloroethene	44.1	µg/L	1	50.0	<0.217	88	81.3 - 115
1,1-Dichloroethane	46.3	µg/L	1	50.0	0.37	92	76.8 - 122
cis-1,2-Dichloroethene	46.3	µg/L	1	50.0	<0.309	93	81 - 116
2,2-Dichloropropane	26.8	µg/L	1	50.0	<0.318	54	21.1 - 110

continued ...

¹ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

² Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

³ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,2-Dichloroethane (EDC)	49.1	µg/L	1	50.0	<0.292	98	73.6 - 125
Chloroform	47.0	µg/L	1	50.0	0.82	92	74 - 122
1,1,1-Trichloroethane	44.7	µg/L	1	50.0	<0.257	89	73.4 - 119
1,1-Dichloropropene	41.7	µg/L	1	50.0	<0.286	83	73.8 - 119
Benzene	43.9	µg/L	1	50.0	<0.319	88	80.2 - 114
Carbon Tetrachloride	44.2	µg/L	1	50.0	<0.223	88	83.6 - 111
1,2-Dichloropropane	45.4	µg/L	1	50.0	<0.266	91	79.4 - 121
Trichloroethene (TCE)	46.0	µg/L	1	50.0	2.04	88	78.8 - 106
Dibromomethane (methylene bromide)	50.0	µg/L	1	50.0	<0.341	100	88 - 114
Bromodichloromethane	47.7	µg/L	1	50.0	<0.291	95	80.3 - 121
2-Chloroethyl vinyl ether	5 <0.293	µg/L	1	50.0	<0.293	0	79.4 - 121
cis-1,3-Dichloropropene	44.5	µg/L	1	50.0	<0.207	89	74.3 - 118
trans-1,3-Dichloropropene	46.4	µg/L	1	50.0	<0.293	93	69.2 - 121
Toluene	6 43.1	µg/L	1	50.0	<0.268	86	87.5 - 112
1,1,2-Trichloroethane	50.2	µg/L	1	50.0	<0.329	100	89.1 - 110
1,3-Dichloropropane	50.9	µg/L	1	50.0	<0.316	102	88.1 - 113
Dibromochloromethane	52.9	µg/L	1	50.0	<0.290	106	84 - 121
1,2-Dibromoethane (EDB)	53.9	µg/L	1	50.0	<0.229	108	89.1 - 111
Tetrachloroethene (PCE)	31.1	µg/L	1	50.0	<0.233	62	42.9 - 72.6
Chlorobenzene	46.2	µg/L	1	50.0	<0.276	92	75.2 - 114
1,1,1,2-Tetrachloroethane	49.1	µg/L	1	50.0	<0.226	98	87.7 - 113
Ethylbenzene	42.8	µg/L	1	50.0	<0.245	86	74.6 - 118
m,p-Xylene	86.6	µg/L	1	100	<0.517	87	72.9 - 120
Bromoform	58.5	µg/L	1	50.0	<0.175	117	79.2 - 135
Styrene	36.7	µg/L	1	50.0	<0.239	73	41.7 - 137
o-Xylene	44.7	µg/L	1	50.0	<0.247	89	74.1 - 123
1,1,2,2-Tetrachloroethane	57.6	µg/L	1	50.0	<0.223	115	80.7 - 131
2-Chlorotoluene	42.6	µg/L	1	50.0	<0.235	85	71.6 - 117
1,2,3-Trichloropropane	53.8	µg/L	1	50.0	<0.230	108	78.4 - 109
Isopropylbenzene	42.4	µg/L	1	50.0	<0.226	85	72.4 - 118
Bromobenzene	45.8	µg/L	1	50.0	<0.245	92	72.7 - 115
n-Propylbenzene	40.9	µg/L	1	50.0	<0.234	82	69.1 - 117
1,3,5-Trimethylbenzene	41.9	µg/L	1	50.0	<0.261	84	70.6 - 116
tert-Butylbenzene	41.6	µg/L	1	50.0	<0.281	83	77.1 - 113
1,2,4-Trimethylbenzene	42.2	µg/L	1	50.0	<0.285	84	76.5 - 118
1,4-Dichlorobenzene (para)	45.8	µg/L	1	50.0	<0.307	92	80.6 - 106
sec-Butylbenzene	40.3	µg/L	1	50.0	<0.312	81	74 - 113
1,3-Dichlorobenzene (meta)	45.6	µg/L	1	50.0	<0.284	91	81.4 - 109
p-Isopropyltoluene	41.1	µg/L	1	50.0	<0.244	82	74.6 - 114
4-Chlorotoluene	43.4	µg/L	1	50.0	<0.257	87	71.3 - 117
1,2-Dichlorobenzene (ortho)	47.5	µg/L	1	50.0	<0.294	95	87 - 104
n-Butylbenzene	40.3	µg/L	1	50.0	<0.339	81	65.7 - 115
1,2-Dibromo-3-chloropropane	55.2	µg/L	1	50.0	<0.780	110	45.5 - 132
1,2,3-Trichlorobenzene	44.9	µg/L	1	50.0	<0.736	90	10 - 200
1,2,4-Trichlorobenzene	42.5	µg/L	1	50.0	<0.432	85	26.5 - 139
Naphthalene	52.8	µg/L	1	50.0	<0.475	106	10 - 203
Hexachlorobutadiene	39.1	µg/L	1	50.0	<1.02	78	50.9 - 108

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

⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.2	µg/L	1	50.0	<0.197	102	82.3 - 118	2	20
Dichlorodifluoromethane	47.4	µg/L	1	50.0	<0.672	95	24.2 - 131	13	20
Chloromethane (methyl chloride)	44.9	µg/L	1	50.0	<0.542	90	69.6 - 118	2	20
Vinyl Chloride	45.9	µg/L	1	50.0	<0.516	92	80.8 - 107	4	20
Bromomethane (methyl bromide)	45.0	µg/L	1	50.0	<0.446	90	74.8 - 126	0	20
Chloroethane	46.9	µg/L	1	50.0	<0.656	94	74.6 - 124	3	20
Trichlorofluoromethane	49.5	µg/L	1	50.0	<0.538	99	66.8 - 115	10	20
Acetone	70.6	µg/L	1	50.0	<1.10	141	15 - 80.4	9	20
Iodomethane (methyl iodide)	50.6	µg/L	1	50.0	<0.214	101	75.2 - 114	5	20
Carbon Disulfide	48.0	µg/L	1	50.0	<0.294	96	69 - 121	11	20
Acrylonitrile	52.5	µg/L	1	50.0	<0.442	105	69.6 - 135	9	20
2-Butanone (MEK)	75.4	µg/L	1	50.0	<0.420	151	28.1 - 108	7	20
4-Methyl-2-pentanone (MIBK)	83.7	µg/L	1	50.0	<0.407	167	81.5 - 117	6	20
2-Hexanone	113	µg/L	1	50.0	<0.486	226	44.6 - 122	4	20
trans 1,4-Dichloro-2-butene	53.8	µg/L	1	50.0	<0.463	108	48.3 - 128	6	20
1,1-Dichloroethene	51.0	µg/L	1	50.0	1.01	100	74.7 - 112	12	20
Methylene chloride	48.0	µg/L	1	50.0	<0.312	96	74.8 - 120	3	20
MTBE	52.6	µg/L	1	50.0	<0.318	105	73.5 - 125	9	20
trans-1,2-Dichloroethene	48.2	µg/L	1	50.0	<0.217	96	81.3 - 115	9	20
1,1-Dichloroethane	49.6	µg/L	1	50.0	0.37	98	76.8 - 122	7	20
cis-1,2-Dichloroethene	48.9	µg/L	1	50.0	<0.309	98	81 - 116	6	20
2,2-Dichloropropane	29.0	µg/L	1	50.0	<0.318	58	21.1 - 110	8	20
1,2-Dichloroethane (EDC)	49.4	µg/L	1	50.0	<0.292	99	73.6 - 125	1	20
Chloroform	49.3	µg/L	1	50.0	0.82	97	74 - 122	5	20
1,1,1-Trichloroethane	49.0	µg/L	1	50.0	<0.257	98	73.4 - 119	9	20
1,1-Dichloropropene	48.1	µg/L	1	50.0	<0.286	96	73.8 - 119	14	20
Benzene	47.9	µg/L	1	50.0	<0.319	96	80.2 - 114	9	20
Carbon Tetrachloride	49.7	µg/L	1	50.0	<0.223	99	83.6 - 111	12	20
1,2-Dichloropropane	48.2	µg/L	1	50.0	<0.266	96	79.4 - 121	6	20
Trichloroethene (TCE)	51.7	µg/L	1	50.0	2.04	99	78.8 - 106	12	20
Dibromomethane (methylene bromide)	52.0	µg/L	1	50.0	<0.341	104	88 - 114	4	20
Bromodichloromethane	50.7	µg/L	1	50.0	<0.291	101	80.3 - 121	6	20
2-Chloroethyl vinyl ether	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121	0	20
cis-1,3-Dichloropropene	47.0	µg/L	1	50.0	<0.207	94	74.3 - 118	6	20
trans-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.293	98	69.2 - 121	6	20
Toluene	48.6	µg/L	1	50.0	<0.268	97	87.5 - 112	12	20
1,1,2-Trichloroethane	51.4	µg/L	1	50.0	<0.329	103	89.1 - 110	2	20
1,3-Dichloropropane	52.3	µg/L	1	50.0	<0.316	105	88.1 - 113	3	20
Dibromochloromethane	54.8	µg/L	1	50.0	<0.290	110	84 - 121	4	20
1,2-Dibromoethane (EDB)	55.3	µg/L	1	50.0	<0.229	111	89.1 - 111	3	20
Tetrachloroethene (PCE)	34.8	µg/L	1	50.0	<0.233	70	42.9 - 72.6	11	20
Chlorobenzene	50.2	µg/L	1	50.0	<0.276	100	75.2 - 114	8	20

continued ...

⁷Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

⁹Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

¹⁰Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

¹¹Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	51.7	µg/L	1	50.0	<0.226	103	87.7 - 113	5	20
Ethylbenzene	47.7	µg/L	1	50.0	<0.245	95	74.6 - 118	11	20
m,p-Xylene	96.0	µg/L	1	100	<0.517	96	72.9 - 120	10	20
Bromoform	61.1	µg/L	1	50.0	<0.175	122	79.2 - 135	4	20
Styrene	39.9	µg/L	1	50.0	<0.239	80	41.7 - 137	8	20
o-Xylene	48.8	µg/L	1	50.0	<0.247	98	74.1 - 123	9	20
1,1,2,2-Tetrachloroethane	60.6	µg/L	1	50.0	<0.223	121	80.7 - 131	5	20
2-Chlorotoluene	46.6	µg/L	1	50.0	<0.235	93	71.6 - 117	9	20
1,2,3-Trichloropropane	56.6	µg/L	1	50.0	<0.230	113	78.4 - 109	5	20
Isopropylbenzene	47.5	µg/L	1	50.0	<0.226	95	72.4 - 118	11	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	72.7 - 115	7	20
n-Propylbenzene	46.0	µg/L	1	50.0	<0.234	92	69.1 - 117	12	20
1,3,5-Trimethylbenzene	46.3	µg/L	1	50.0	<0.261	93	70.6 - 116	10	20
tert-Butylbenzene	46.8	µg/L	1	50.0	<0.281	94	77.1 - 113	12	20
1,2,4-Trimethylbenzene	46.3	µg/L	1	50.0	<0.285	93	76.5 - 118	9	20
1,4-Dichlorobenzene (para)	50.1	µg/L	1	50.0	<0.307	100	80.6 - 106	9	20
sec-Butylbenzene	45.5	µg/L	1	50.0	<0.312	91	74 - 113	12	20
1,3-Dichlorobenzene (meta)	49.7	µg/L	1	50.0	<0.284	99	81.4 - 109	9	20
p-Isopropyltoluene	46.1	µg/L	1	50.0	<0.244	92	74.6 - 114	12	20
4-Chlorotoluene	47.3	µg/L	1	50.0	<0.257	95	71.3 - 117	9	20
1,2-Dichlorobenzene (ortho)	51.3	µg/L	1	50.0	<0.294	103	87 - 104	8	20
n-Butylbenzene	45.8	µg/L	1	50.0	<0.339	92	65.7 - 115	13	20
1,2-Dibromo-3-chloropropane	60.7	µg/L	1	50.0	<0.780	121	45.5 - 132	10	20
1,2,3-Trichlorobenzene	52.6	µg/L	1	50.0	<0.736	105	10 - 200	16	20
1,2,4-Trichlorobenzene	48.5	µg/L	1	50.0	<0.432	97	26.5 - 139	13	20
Naphthalene	59.7	µg/L	1	50.0	<0.475	119	10 - 203	12	20
Hexachlorobutadiene	45.6	µg/L	1	50.0	<1.02	91	50.9 - 108	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	49.8	49.9	µg/L	1	50	100	100	91.5 - 112
Toluene-d8	48.5	48.1	µg/L	1	50	97	96	90.6 - 105
4-Bromofluorobenzene (4-BFB)	50.1	49.7	µg/L	1	50	100	99	88.7 - 112

Standard (CCV-1)

QC Batch: 47115

Date Analyzed: 2008-04-03

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
Dichlorodifluoromethane		µg/L	50.0	49.5	99	70 - 130	2008-04-03
Chloromethane (methyl chloride)		µg/L	50.0	46.5	93	70 - 130	2008-04-03
Vinyl Chloride		µg/L	50.0	48.7	97	80 - 120	2008-04-03
Bromomethane (methyl bromide)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
Chloroethane		µg/L	50.0	49.8	100	70 - 130	2008-04-03

continued ...

¹²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Trichlorofluoromethane		µg/L	50.0	50.4	101	70 - 130	2008-04-03
Acetone		µg/L	50.0	47.8	96	70 - 130	2008-04-03
Iodomethane (methyl iodide)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Carbon Disulfide		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Acrylonitrile		µg/L	50.0	46.6	93	70 - 130	2008-04-03
2-Butanone (MEK)		µg/L	50.0	53.0	106	70 - 130	2008-04-03
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	49.5	99	70 - 130	2008-04-03
2-Hexanone		µg/L	50.0	57.2	114	70 - 130	2008-04-03
trans 1,4-Dichloro-2-butene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,1-Dichloroethene		µg/L	50.0	48.6	97	80 - 120	2008-04-03
Methylene chloride		µg/L	50.0	46.8	94	70 - 130	2008-04-03
MTBE		µg/L	50.0	48.7	97	70 - 130	2008-04-03
trans-1,2-Dichloroethene		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloroethane		µg/L	50.0	48.7	97	70 - 130	2008-04-03
cis-1,2-Dichloroethene		µg/L	50.0	48.3	97	70 - 130	2008-04-03
2,2-Dichloropropane		µg/L	50.0	44.9	90	70 - 130	2008-04-03
1,2-Dichloroethane (EDC)		µg/L	50.0	47.2	94	70 - 130	2008-04-03
Chloroform		µg/L	50.0	47.7	95	80 - 120	2008-04-03
1,1,1-Trichloroethane		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloropropene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Benzene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
Carbon Tetrachloride		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,2-Dichloropropane		µg/L	50.0	48.4	97	80 - 120	2008-04-03
Trichloroethene (TCE)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Dibromomethane (methylene bromide)		µg/L	50.0	48.3	97	70 - 130	2008-04-03
Bromodichloromethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
2-Chloroethyl vinyl ether		µg/L	50.0	49.9	100	70 - 130	2008-04-03
cis-1,3-Dichloropropene		µg/L	50.0	49.2	98	70 - 130	2008-04-03
trans-1,3-Dichloropropene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
Toluene		µg/L	50.0	47.4	95	80 - 120	2008-04-03
1,1,2-Trichloroethane		µg/L	50.0	48.2	96	70 - 130	2008-04-03
1,3-Dichloropropane		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Dibromochloromethane		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,2-Dibromoethane (EDB)		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Tetrachloroethene (PCE)		µg/L	50.0	54.4	109	70 - 130	2008-04-03
Chlorobenzene		µg/L	50.0	48.1	96	80 - 120	2008-04-03
1,1,1,2-Tetrachloroethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
Ethylbenzene		µg/L	50.0	47.3	95	80 - 120	2008-04-03
m,p-Xylene		µg/L	100	94.6	95	70 - 130	2008-04-03
Bromoform		µg/L	50.0	52.1	104	70 - 130	2008-04-03
Styrene		µg/L	50.0	46.8	94	70 - 130	2008-04-03
o-Xylene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,1,2,2-Tetrachloroethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
2-Chlorotoluene		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichloropropane		µg/L	50.0	49.7	99	70 - 130	2008-04-03
Isopropylbenzene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
Bromobenzene		µg/L	50.0	47.1	94	70 - 130	2008-04-03
n-Propylbenzene		µg/L	50.0	47.0	94	70 - 130	2008-04-03
1,3,5-Trimethylbenzene		µg/L	50.0	46.8	94	70 - 130	2008-04-03

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
tert-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,2,4-Trimethylbenzene		µg/L	50.0	47.2	94	70 - 130	2008-04-03
1,4-Dichlorobenzene (para)		µg/L	50.0	48.6	97	70 - 130	2008-04-03
sec-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,3-Dichlorobenzene (meta)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
p-Isopropyltoluene		µg/L	50.0	48.4	97	70 - 130	2008-04-03
4-Chlorotoluene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
1,2-Dichlorobenzene (ortho)		µg/L	50.0	49.8	100	70 - 130	2008-04-03
n-Butylbenzene		µg/L	50.0	50.1	100	70 - 130	2008-04-03
1,2-Dibromo-3-chloropropane		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichlorobenzene		µg/L	50.0	48.8	98	70 - 130	2008-04-03
1,2,4-Trichlorobenzene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Naphthalene		µg/L	50.0	48.1	96	70 - 130	2008-04-03
Hexachlorobutadiene		µg/L	50.0	49.5	99	70 - 130	2008-04-03

Standard (CCV-1)

QC Batch: 47137

Date Analyzed: 2008-04-04

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60.0	61.4	102	80 - 120	2008-04-04
1,4-Dichlorobenzene (para)		mg/L	60.0	59.8	100	80 - 120	2008-04-04
2-Nitrophenol		mg/L	60.0	66.4	111	80 - 120	2008-04-04
2,4-Dichlorophenol		mg/L	60.0	63.1	105	80 - 120	2008-04-04
Hexachlorobutadiene		mg/L	60.0	63.6	106	80 - 120	2008-04-04
4-Chloro-3-methylphenol		mg/L	60.0	48.8	81	80 - 120	2008-04-04
2,4,6-Trichlorophenol		mg/L	60.0	69.3	116	80 - 120	2008-04-04
Acenaphthene		mg/L	60.0	55.3	92	80 - 120	2008-04-04
Diphenylamine		mg/L	60.0	56.2	94	80 - 120	2008-04-04
Pentachlorophenol		mg/L	60.0	51.4	86	80 - 120	2008-04-04
Fluoranthene		mg/L	60.0	68.6	114	80 - 120	2008-04-04
Di-n-octylphthalate		mg/L	60.0	49.6	83	80 - 120	2008-04-04
Benzo(a)pyrene		mg/L	60.0	62.1	104	80 - 120	2008-04-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		56.9	mg/L	1	60.0	95	80 - 120
Phenol-d5		62.1	mg/L	1	60.0	104	80 - 120
Nitrobenzene-d5		67.3	mg/L	1	60.0	112	80 - 120
2-Fluorobiphenyl	13	73.3	mg/L	1	60.0	122	80 - 120
2,4,6-Tribromophenol		69.2	mg/L	1	60.0	115	80 - 120
Terphenyl-d14		65.8	mg/L	1	60.0	110	80 - 120

¹³2-Fluorobiphenyl outside of control limits on CCV(ICV). CCV(ICV) component average is 103% which is within acceptable range. This is acceptable by Method 8000.

TraceAnalysis, Inc.

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Company Name: Talon LPE
Address: (Street, City, Zip) 2901 Rankin Hwy
Contact Person: SHARON SMITH
E-mail: Ssmith@talonpe.com
Invoice to: (If different from above)
Project #: SR 5# PLAINS 0478PL
Project Location (including state): +10885, NM
Project Name: Junction Mainline
Sampler Signature: *Chito Chung*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		TIME	Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		
154838	MW-23	1	✓	✓				✓						3-25-08 1218		
	MW-23	1	✓	✓				✓						3-25-08 1219		
	MW-23	1	✓	✓				✓						3-25-08 1220		
	MW-23	1	✓	✓				✓						3-25-08 1215		
839	MW-24	3	✓	✓				✓						3-25-08 1241		
	MW-24	1	✓	✓				✓						3-25-08 1248		

Relinquished by: *Chito Chung* Date: 3-25-08 Time: 6:30 pm
Received by: *Chito Chung* Date: 3-25-08 Time: 16:30
Relinquished by: *Chito Chung* Date: 3-26-08 Time: 17:00
Received by: *Chito Chung* Date: 3-26-08 Time: 17:00

LAB USE ONLY
Intact: ☒ Y ☐ N
Headspace: ☒ Y ☐ N
Temp: 4
Log-in/Review: *Chito Chung*

Carrier # Cam-in/CONF STATE- P3073928

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

TRACE ANALYSIS, INC.

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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
8808 Camp Bowie Blvd. West, Suite 180 Ft. Worth, Texas 76116 817•201•5260 FAX 817•560•4336
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Shanna Smith
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: May 6, 2008

Work Order: 8033118



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: SRS#2003-00017

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
155151	#6	water	2008-03-31	14:45	2008-03-31

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.

This report consists of a total of 50 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-03-31 and assigned to work order 8033118. Samples for work order 8033118 were received intact without headspace and at a temperature of 4.0 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Ag, Total	S 6010B
Al, Total	S 6010B
As, Total	S 6010B
Ba, Total	S 6010B
Be, Total	S 6010B
Cd, Total	S 6010B
Chloride (IC)	E 300.0
Corrosivity	S 1110
Cr, Total	S 6010B
Cu, Total	S 6010B
Fe, Total	S 6010B
Fluoride (IC)	E 300.0
Free Cyanide	E 9213
Hg, Total	S 7470A
Mn, Total	S 6010B
NO2 (IC)	E 300.0
NO3 (IC)	E 300.0
PAH	S 8270C
Pb, Total	S 6010B
Sb, Total	S 6010B
Se, Total	S 6010B
SO4 (IC)	E 300.0
Surfactants	SM 5540C
TDS	SM 2540C
Tl, Total	S 6010B
Volatiles	S 8260B
Zn, Total	S 6010B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8033118 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 155151 - #6

Analysis:	Ag, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis:	Al, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Aluminum		<0.0500	mg/L	1	0.0500

Sample: 155151 - #6

Analysis:	As, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Arsenic		0.0130	mg/L	1	0.00500

Sample: 155151 - #6

Analysis:	Ba, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Barium		0.0550	mg/L	1	0.00100

Sample: 155151 - #6

Analysis:	Be, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Beryllium		<0.00200	mg/L	1	0.00200

Sample: 155151 - #6

Analysis: Cd, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

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

Sample: 155151 - #6

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
Prep Batch: 40447 Sample Preparation: 2008-04-01 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		41.5	mg/L	5	0.500

Sample: 155151 - #6

Analysis: Corrosivity Analytical Method: S 1110 Prep Method: N/A
QC Batch: 47580 Date Analyzed: 2008-04-18 Analyzed By: ER
Prep Batch: 40915 Sample Preparation: 2008-04-18 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		7.48	s.u.	1	0.00

Sample: 155151 - #6

Analysis: Cr, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

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

Sample: 155151 - #6

Analysis:	Cu, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Copper		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis:	Fe, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Iron		0.0340	mg/L	1	0.0100

Sample: 155151 - #6

Analysis:	Fluoride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	47026	Date Analyzed:	2008-04-01	Analyzed By:	ER
Prep Batch:	40447	Sample Preparation:	2008-04-01	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		1.26	mg/L	5	0.200

Sample: 155151 - #6

Analysis:	Free Cyanide	Analytical Method:	E 9213	Prep Method:	N/A
QC Batch:	47550	Date Analyzed:	2008-04-08	Analyzed By:	BP
Prep Batch:	40886	Sample Preparation:	2008-04-07	Prepared By:	BP

Parameter	Flag	RL Result	Units	Dilution	RL
Free Cyanide		<0.0100	mg/L	1	0.0100

Sample: 155151 - #6

Analysis:	Hg, Total	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	47227	Date Analyzed:	2008-04-08	Analyzed By:	TP
Prep Batch:	40584	Sample Preparation:	2008-04-08	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Mercury		<0.000200	mg/L	1	0.000200

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

Page Number: 6 of 50
Hobbs, NM

Sample: 155151 - #6

Analysis:	Mn, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Manganese		<0.00250	mg/L	1	0.00250

Sample: 155151 - #6

Analysis:	NO2 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	47026	Date Analyzed:	2008-04-01	Analyzed By:	ER
Prep Batch:	40447	Sample Preparation:	2008-04-01	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrite-N		<1.00	mg/L	5	0.200

Sample: 155151 - #6

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	47026	Date Analyzed:	2008-04-01	Analyzed By:	ER
Prep Batch:	40447	Sample Preparation:	2008-04-01	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.50	mg/L	5	0.200

Sample: 155151 - #6

Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	47240	Date Analyzed:	2008-04-08	Analyzed By:	DS
Prep Batch:	40627	Sample Preparation:	2008-04-04	Prepared By:	DS

Comment: Only report Benzo-a- pyrene

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0626	mg/L	1	0.0800	78	37.4 - 123
2-Fluorobiphenyl		0.0624	mg/L	1	0.0800	78	34.3 - 130
Terphenyl-d14		0.0692	mg/L	1	0.0800	86	10 - 252

Sample: 155151 - #6

Analysis:	Pb, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis:	Sb, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Antimony		<0.0200	mg/L	1	0.0200

Sample: 155151 - #6

Analysis:	Se, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	47095	Date Analyzed:	2008-04-04	Analyzed By:	RR
Prep Batch:	40490	Sample Preparation:	2008-04-03	Prepared By:	KV

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

Sample: 155151 - #6

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	47026	Date Analyzed:	2008-04-01	Analyzed By:	ER
Prep Batch:	40447	Sample Preparation:	2008-04-01	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		66.7	mg/L	5	1.00

Sample: 155151 - #6

Analysis:	Surfactants	Analytical Method:	SM 5540C	Prep Method:	N/A
QC Batch:	47167	Date Analyzed:	2008-04-02	Analyzed By:	ER
Prep Batch:	40563	Sample Preparation:	2008-04-02	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Surfactants		<0.100	MBAS mg/L	1	0.100

Sample: 155151 - #6

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 47119	Date Analyzed: 2008-04-04	Analyzed By: AR
Prep Batch: 40522	Sample Preparation: 2008-04-02	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		364.0	mg/L	1	10.00

Sample: 155151 - #6

Analysis: TI, Total	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 47095	Date Analyzed: 2008-04-04	Analyzed By: RR
Prep Batch: 40490	Sample Preparation: 2008-04-03	Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Thallium		<0.0200	mg/L	1	0.0200

Sample: 155151 - #6

Analysis: Volatiles	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 47140	Date Analyzed: 2008-04-04	Analyzed By: KB
Prep Batch: 40543	Sample Preparation: 2008-04-04	Prepared By: KB

Comment: See attached list for specifics.

Parameter	Flag	RL Result	Units	Dilution	RL
Vinyl Chloride		<1.00	µg/L	1	1.00
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<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
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<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
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00

continued ...

sample 155151 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.8	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.4	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.1	µg/L	1	50.0	94	88.4 - 103

Sample: 155151 - #6

Analysis: Zn, Total	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 47093	Date Analyzed: 2008-04-04	Analyzed By: RR
Prep Batch: 40490	Sample Preparation: 2008-04-03	Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		<0.00700	mg/L	1	0.00700

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.172	mg/L	0.5

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0889	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

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Parameter	Flag	MDL Result	Units	RL
Nitrite-N		<0.0709	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0805	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.344	mg/L	1

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.00210	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Aluminum		<0.0228	mg/L	0.05

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Arsenic		<0.00430	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Barium		<0.00170	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Beryllium		<0.00220	mg/L	0.002

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Cadmium		<0.00140	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Chromium		<0.000900	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Copper		<0.00140	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 QC Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Iron		<0.00690	mg/L	0.01

Method Blank (1) QC Batch: 47095

QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 QC Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Manganese		<0.000600	mg/L	0.0025

Method Blank (1) QC Batch: 47095

QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 QC Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Lead		<0.00320	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 QC Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Antimony		<0.0166	mg/L	0.02

Method Blank (1) QC Batch: 47095

QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 QC Preparation: 2008-04-03 Prepared By: KV

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Parameter	Flag	MDL Result	Units	RL
Total Selenium		<0.0131	mg/L	0.01

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Thallium		<0.0189	mg/L	0.02

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Zinc		<0.00710	mg/L	0.007

Method Blank (1) QC Batch: 47119

QC Batch: 47119
Prep Batch: 40522

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-02

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		12.00	mg/L	10

Method Blank (1) QC Batch: 47140

QC Batch: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.197	µg/L	1
Dichlorodifluoromethane		<0.672	µg/L	1
Chloromethane (methyl chloride)		<0.542	µg/L	1
Vinyl Chloride		<0.516	µg/L	1
Bromomethane (methyl bromide)		<0.446	µg/L	5
Chloroethane		<0.656	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Trichlorofluoromethane		<0.538	µg/L	1
Acetone		<1.10	µg/L	10
Iodomethane (methyl iodide)		<0.214	µg/L	5
Carbon Disulfide		<0.294	µg/L	1
Acrylonitrile		<0.442	µg/L	1
2-Butanone (MEK)		<0.420	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.407	µg/L	5
2-Hexanone		<0.486	µg/L	5
trans 1,4-Dichloro-2-butene		<0.463	µg/L	10
1,1-Dichloroethene		<0.237	µg/L	1
Methylene chloride		<0.312	µg/L	5
MTBE		<0.318	µg/L	1
trans-1,2-Dichloroethene		<0.217	µg/L	1
1,1-Dichloroethane		<0.202	µg/L	1
cis-1,2-Dichloroethene		<0.309	µg/L	1
2,2-Dichloropropane		<0.318	µg/L	1
1,2-Dichloroethane (EDC)		<0.292	µg/L	1
Chloroform		<0.234	µg/L	1
1,1,1-Trichloroethane		<0.257	µg/L	1
1,1-Dichloropropene		<0.286	µg/L	1
Benzene		<0.319	µg/L	1
Carbon Tetrachloride		<0.223	µg/L	1
1,2-Dichloropropane		<0.266	µg/L	1
Trichloroethene (TCE)		<0.235	µg/L	1
Dibromomethane (methylene bromide)		<0.341	µg/L	1
Bromodichloromethane		<0.291	µg/L	1
2-Chloroethyl vinyl ether		<0.293	µg/L	5
cis-1,3-Dichloropropene		<0.207	µg/L	1
trans-1,3-Dichloropropene		<0.293	µg/L	1
Toluene		<0.268	µg/L	1
1,1,2-Trichloroethane		<0.329	µg/L	1
1,3-Dichloropropane		<0.316	µg/L	1
Dibromochloromethane		<0.290	µg/L	1
1,2-Dibromoethane (EDB)		<0.229	µg/L	1
Tetrachloroethene (PCE)		<0.233	µg/L	1
Chlorobenzene		<0.276	µg/L	1
1,1,1,2-Tetrachloroethane		<0.226	µg/L	1
Ethylbenzene		<0.245	µg/L	1
m,p-Xylene		<0.517	µg/L	1
Bromoform		<0.175	µg/L	1
Styrene		<0.239	µg/L	1
o-Xylene		<0.247	µg/L	1
1,1,2,2-Tetrachloroethane		<0.223	µg/L	1
2-Chlorotoluene		<0.235	µg/L	1
1,2,3-Trichloropropane		<0.230	µg/L	1
Isopropylbenzene		<0.226	µg/L	1
Bromobenzene		<0.245	µg/L	1
n-Propylbenzene		<0.234	µg/L	1
1,3,5-Trimethylbenzene		<0.261	µg/L	1
tert-Butylbenzene		<0.281	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
1,2,4-Trimethylbenzene		<0.285	µg/L	1
1,4-Dichlorobenzene (para)		<0.307	µg/L	1
sec-Butylbenzene		<0.312	µg/L	1
1,3-Dichlorobenzene (meta)		<0.284	µg/L	1
p-Isopropyltoluene		<0.244	µg/L	1
4-Chlorotoluene		<0.257	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.294	µg/L	1
n-Butylbenzene		<0.339	µg/L	1
1,2-Dibromo-3-chloropropane		3.14	µg/L	5
1,2,3-Trichlorobenzene		2.63	µg/L	5
1,2,4-Trichlorobenzene		2.71	µg/L	5
Naphthalene		3.19	µg/L	5
Hexachlorobutadiene		<1.02	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.2	µg/L	1	50.0	96	89.8 - 111
Toluene-d8		49.6	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.7	µg/L	1	50.0	95	88.4 - 103

Method Blank (1) QC Batch: 47167

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Surfactants		0.00	MBAS mg/L	0.1

Method Blank (1) QC Batch: 47227

QC Batch: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
Total Mercury		<0.0000251	mg/L	0.0002

Method Blank (1) QC Batch: 47240

QC Batch: 47240
Prep Batch: 40627

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-04

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000241	mg/L	0.0002

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
2-Methylnaphthalene		<0.0000751	mg/L	0.0002
1-Methylnaphthalene		<0.0000281	mg/L	0.0002
Acenaphthylene		<0.0000415	mg/L	0.0002
Acenaphthene		<0.0000218	mg/L	0.0002
Dibenzofuran		<0.0000416	mg/L	0.0002
Fluorene		<0.0000437	mg/L	0.0002
Anthracene		<0.000125	mg/L	0.0002
Phenanthrene		<0.000129	mg/L	0.0002
Fluoranthene		<0.000142	mg/L	0.0002
Pyrene		<0.000155	mg/L	0.0002
Benzo(a)anthracene		<0.000125	mg/L	0.0002
Chrysene		<0.000105	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000607	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000690	mg/L	0.0002
Benzo(a)pyrene		<0.0000466	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000283	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000244	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000171	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0552	mg/L	1	0.0800	69	37.4 - 123
2-Fluorobiphenyl		0.0518	mg/L	1	0.0800	65	34.3 - 130
Terphenyl-d14		0.0600	mg/L	1	0.0800	75	10 - 252

Method Blank (1) QC Batch: 47550

QC Batch: 47550 Date Analyzed: 2008-04-08 Analyzed By: BP
 Prep Batch: 40886 QC Preparation: 2008-04-07 Prepared By: BP

Parameter	Flag	MDL Result	Units	RL
Free Cyanide		<0.00500	mg/L	0.01

Duplicates (1)

QC Batch: 47119 Date Analyzed: 2008-04-04 Analyzed By: AR
 Prep Batch: 40522 QC Preparation: 2008-04-02 Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	362.0	364.0	mg/L	1	1	20

Laboratory Control Spike (LCS-1)

QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
 Prep Batch: 40447 QC Preparation: 2008-04-01 Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.8	mg/L	1	12.5	<0.172	102	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	13.4	mg/L	1	12.5	<0.172	107	90 - 110	5	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: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.30	mg/L	1	2.50	<0.0889	92	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.68	mg/L	1	2.50	<0.0889	107	90 - 110	15	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: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrite-N	2.40	mg/L	1	2.50	<0.0709	96	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrite-N	2.62	mg/L	1	2.50	<0.0709	105	90 - 110	9	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: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	2.71	mg/L	1	2.50	<0.0805	108	90 - 110

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N	2.74	mg/L	1	2.50	<0.0805	110	90 - 110	1	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: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	13.6	mg/L	1	12.5	<0.344	109	90 - 110

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	13.7	mg/L	1	12.5	<0.344	110	90 - 110	1	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.129	mg/L	1	0.125	<0.00210	103	86.7 - 113

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.130	mg/L	1	0.125	<0.00210	104	86.7 - 113	1	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.930	mg/L	1	1.00	<0.0228	93	85 - 106

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum	0.931	mg/L	1	1.00	<0.0228	93	85 - 106	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Arsenic	0.502	mg/L	1	0.500	<0.00430	100	85 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Arsenic	0.508	mg/L	1	0.500	<0.00430	102	85 - 112	1	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Barium	1.05	mg/L	1	1.00	<0.00170	105	86.9 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Barium	1.06	mg/L	1	1.00	<0.00170	106	86.9 - 115	1	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Beryllium	0.0257	mg/L	1	0.0250	<0.00220	103	85 - 109

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Beryllium	0.0258	mg/L	1	0.0250	<0.00220	103	85 - 109	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cadmium	0.260	mg/L	1	0.250	<0.00140	104	85.2 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cadmium	0.259	mg/L	1	0.250	<0.00140	104	85.2 - 115	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	0.103	mg/L	1	0.100	<0.000900	103	86 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	0.103	mg/L	1	0.100	<0.000900	103	86 - 115	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.123	mg/L	1	0.125	<0.00140	98	85.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper	0.123	mg/L	1	0.125	<0.00140	98	85.6 - 113	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.521	mg/L	1	0.500	<0.00690	104	86.9 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	0.545	mg/L	1	0.500	<0.00690	109	86.9 - 115	4	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.259	mg/L	1	0.250	<0.000600	104	85.4 - 115		

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.258	mg/L	1	0.250	<0.000600	103	85.4 - 115	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	0.506	mg/L	1	0.500	<0.00320	101	87.9 - 112		

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	0.524	mg/L	1	0.500	<0.00320	105	87.9 - 112	4	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Antimony	0.246	mg/L	1	0.250	<0.0166	98	85 - 111		

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Antimony	0.244	mg/L	1	0.250	<0.0166	98	85 - 111	1	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Selenium	0.453	mg/L	1	0.500	<0.0131	91	85 - 109

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Selenium	0.445	mg/L	1	0.500	<0.0131	89	85 - 109	2	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Thallium	0.522	mg/L	1	0.500	<0.0189	104	89.4 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Thallium	0.520	mg/L	1	0.500	<0.0189	104	89.4 - 115	0	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: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.236	mg/L	1	0.250	<0.00710	94	85 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	0.234	mg/L	1	0.250	<0.00710	94	85 - 113	1	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: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.3	µg/L	1	50.0	<0.197	101	91.8 - 112
Dichlorodifluoromethane	50.6	µg/L	1	50.0	<0.672	101	40.7 - 133
Chloromethane (methyl chloride)	46.8	µg/L	1	50.0	<0.542	94	61.4 - 130
Vinyl Chloride	48.6	µg/L	1	50.0	<0.516	97	65.4 - 127
Bromomethane (methyl bromide)	51.2	µg/L	1	50.0	<0.446	102	61 - 140
Chloroethane	50.1	µg/L	1	50.0	<0.656	100	72.1 - 121
Trichlorofluoromethane	52.6	µg/L	1	50.0	<0.538	105	77.1 - 116
Acetone	115	µg/L	1	50.0	<1.10	230	10 - 169
Iodomethane (methyl iodide)	50.4	µg/L	1	50.0	<0.214	101	84.4 - 118
Carbon Disulfide	42.8	µg/L	1	50.0	<0.294	86	84.7 - 116
Acrylonitrile	45.9	µg/L	1	50.0	<0.442	92	88.5 - 119
2-Butanone (MEK)	94.2	µg/L	1	50.0	<0.420	188	38.2 - 134
4-Methyl-2-pentanone (MIBK)	53.8	µg/L	1	50.0	<0.407	108	90.4 - 114
2-Hexanone	92.8	µg/L	1	50.0	<0.486	186	47 - 145
trans 1,4-Dichloro-2-butene	50.7	µg/L	1	50.0	<0.463	101	75.5 - 133
1,1-Dichloroethene	52.4	µg/L	1	50.0	<0.237	105	86.8 - 110
Methylene chloride	47.6	µg/L	1	50.0	<0.312	95	84.4 - 114
MTBE	42.0	µg/L	1	50.0	<0.318	84	88.3 - 115
trans-1,2-Dichloroethene	48.9	µg/L	1	50.0	<0.217	98	89.1 - 109
1,1-Dichloroethane	48.5	µg/L	1	50.0	<0.202	97	85 - 114
cis-1,2-Dichloroethene	48.8	µg/L	1	50.0	<0.309	98	91.2 - 109
2,2-Dichloropropane	38.5	µg/L	1	50.0	<0.318	77	63.4 - 132
1,2-Dichloroethane (EDC)	48.1	µg/L	1	50.0	<0.292	96	82.2 - 113
Chloroform	49.2	µg/L	1	50.0	<0.234	98	86.5 - 111
1,1,1-Trichloroethane	44.2	µg/L	1	50.0	<0.257	88	89.7 - 109
1,1-Dichloropropene	48.4	µg/L	1	50.0	<0.286	97	89.7 - 110
Benzene	47.8	µg/L	1	50.0	<0.319	96	87.6 - 107
Carbon Tetrachloride	45.8	µg/L	1	50.0	<0.223	92	92.1 - 111
1,2-Dichloropropane	48.3	µg/L	1	50.0	<0.266	97	91.8 - 111
Trichloroethene (TCE)	50.5	µg/L	1	50.0	<0.235	101	85.4 - 113
Dibromomethane (methylene bromide)	49.4	µg/L	1	50.0	<0.341	99	93.2 - 108
Bromodichloromethane	49.9	µg/L	1	50.0	<0.291	100	93.6 - 113
2-Chloroethyl vinyl ether	49.4	µg/L	1	50.0	<0.293	99	91.8 - 111
cis-1,3-Dichloropropene	50.4	µg/L	1	50.0	<0.207	101	94.6 - 117
trans-1,3-Dichloropropene	51.2	µg/L	1	50.0	<0.293	102	90.2 - 119
Toluene	48.2	µg/L	1	50.0	<0.268	96	91.3 - 110
1,1,2-Trichloroethane	48.8	µg/L	1	50.0	<0.329	98	94.3 - 106
1,3-Dichloropropane	48.5	µg/L	1	50.0	<0.316	97	92.2 - 108
Dibromochloromethane	52.0	µg/L	1	50.0	<0.290	104	92.1 - 122
1,2-Dibromoethane (EDB)	51.4	µg/L	1	50.0	<0.229	103	98.2 - 106
Tetrachloroethene (PCE)	45.4	µg/L	1	50.0	<0.233	91	20.2 - 156
Chlorobenzene	49.8	µg/L	1	50.0	<0.276	100	92.9 - 103
1,1,1,2-Tetrachloroethane	50.4	µg/L	1	50.0	<0.226	101	99.3 - 105
Ethylbenzene	47.6	µg/L	1	50.0	<0.245	95	90.5 - 107
m,p-Xylene	95.7	µg/L	1	100	<0.517	96	89.5 - 111
Bromoform	55.3	µg/L	1	50.0	<0.175	111	84.2 - 144

continued ...

- ¹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •
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- ³ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •
- ⁴ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •
- ⁵ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •
- ⁶ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Styrene	48.0	µg/L	1	50.0	<0.239	96	94.3 - 113
o-Xylene	48.1	µg/L	1	50.0	<0.247	96	91.2 - 112
1,1,2,2-Tetrachloroethane	51.1	µg/L	1	50.0	<0.223	102	74.9 - 133
2-Chlorotoluene	48.2	µg/L	1	50.0	<0.235	96	87.4 - 110
1,2,3-Trichloropropane	50.9	µg/L	1	50.0	<0.230	102	86.6 - 114
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	87.6 - 115
Bromobenzene	48.6	µg/L	1	50.0	<0.245	97	91.3 - 105
n-Propylbenzene	48.8	µg/L	1	50.0	<0.234	98	84.4 - 113
1,3,5-Trimethylbenzene	48.3	µg/L	1	50.0	<0.261	97	89.3 - 109
tert-Butylbenzene	49.5	µg/L	1	50.0	<0.281	99	93.2 - 106
1,2,4-Trimethylbenzene	48.5	µg/L	1	50.0	<0.285	97	89.6 - 115
1,4-Dichlorobenzene (para)	50.7	µg/L	1	50.0	<0.307	101	88.4 - 106
sec-Butylbenzene	49.1	µg/L	1	50.0	<0.312	98	87.2 - 113
1,3-Dichlorobenzene (meta)	51.1	µg/L	1	50.0	<0.284	102	91.1 - 109
p-Isopropyltoluene	50.3	µg/L	1	50.0	<0.244	101	92.2 - 109
4-Chlorotoluene	49.2	µg/L	1	50.0	<0.257	98	89 - 110
1,2-Dichlorobenzene (ortho)	51.1	µg/L	1	50.0	<0.294	102	91.3 - 110
n-Butylbenzene	51.2	µg/L	1	50.0	<0.339	102	86.8 - 113
1,2-Dibromo-3-chloropropane	45.5	µg/L	1	50.0	3.14	91	72.3 - 130
1,2,3-Trichlorobenzene	47.1	µg/L	1	50.0	2.63	94	81.2 - 202
1,2,4-Trichlorobenzene	48.6	µg/L	1	50.0	2.71	97	65 - 145
Naphthalene	46.4	µg/L	1	50.0	3.19	93	84.5 - 150
Hexachlorobutadiene	49.8	µg/L	1	50.0	<1.02	100	70.2 - 133

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.5	µg/L	1	50.0	<0.197	103	91.8 - 112	2	20
Dichlorodifluoromethane	49.1	µg/L	1	50.0	<0.672	98	40.7 - 133	3	20
Chloromethane (methyl chloride)	44.5	µg/L	1	50.0	<0.542	89	61.4 - 130	5	20
Vinyl Chloride	46.7	µg/L	1	50.0	<0.516	93	65.4 - 127	4	20
Bromomethane (methyl bromide)	49.3	µg/L	1	50.0	<0.446	99	61 - 140	4	20
Chloroethane	47.7	µg/L	1	50.0	<0.656	95	72.1 - 121	5	20
Trichlorofluoromethane	50.7	µg/L	1	50.0	<0.538	101	77.1 - 116	4	20
Acetone	103	µg/L	1	50.0	<1.10	206	10 - 169	11	20
Iodomethane (methyl iodide)	51.3	µg/L	1	50.0	<0.214	103	84.4 - 118	2	20
Carbon Disulfide	43.8	µg/L	1	50.0	<0.294	88	84.7 - 116	2	20
Acrylonitrile	46.7	µg/L	1	50.0	<0.442	93	88.5 - 119	2	20
2-Butanone (MEK)	94.4	µg/L	1	50.0	<0.420	189	38.2 - 134	0	20
4-Methyl-2-pentanone (MIBK)	55.4	µg/L	1	50.0	<0.407	111	90.4 - 114	3	20
2-Hexanone	92.2	µg/L	1	50.0	<0.486	184	47 - 145	1	20
trans 1,4-Dichloro-2-butene	50.8	µg/L	1	50.0	<0.463	102	75.5 - 133	0	20
1,1-Dichloroethene	53.7	µg/L	1	50.0	<0.237	107	86.8 - 110	2	20
Methylene chloride	48.6	µg/L	1	50.0	<0.312	97	84.4 - 114	2	20
MTBE	42.2	µg/L	1	50.0	<0.318	84	88.3 - 115	0	20
trans-1,2-Dichloroethene	49.7	µg/L	1	50.0	<0.217	99	89.1 - 109	2	20

continued ...

⁷ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

⁸ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

⁹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

¹⁰ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethane	49.7	µg/L	1	50.0	<0.202	99	85 - 114	2	20
cis-1,2-Dichloroethene	49.9	µg/L	1	50.0	<0.309	100	91.2 - 109	2	20
2,2-Dichloropropane	37.9	µg/L	1	50.0	<0.318	76	63.4 - 132	2	20
1,2-Dichloroethane (EDC)	49.0	µg/L	1	50.0	<0.292	98	82.2 - 113	2	20
Chloroform	50.5	µg/L	1	50.0	<0.234	101	86.5 - 111	3	20
1,1,1-Trichloroethane	44.3	µg/L	1	50.0	<0.257	89	89.7 - 109	0	20
1,1-Dichloropropene	51.4	µg/L	1	50.0	<0.286	103	89.7 - 110	6	20
Benzene	50.4	µg/L	1	50.0	<0.319	101	87.6 - 107	5	20
Carbon Tetrachloride	47.3	µg/L	1	50.0	<0.223	95	92.1 - 111	3	20
1,2-Dichloropropane	51.2	µg/L	1	50.0	<0.266	102	91.8 - 111	6	20
Trichloroethene (TCE)	52.7	µg/L	1	50.0	<0.235	105	85.4 - 113	4	20
Dibromomethane (methylene bromide)	52.2	µg/L	1	50.0	<0.341	104	93.2 - 108	6	20
Bromodichloromethane	52.5	µg/L	1	50.0	<0.291	105	93.6 - 113	5	20
2-Chloroethyl vinyl ether	50.5	µg/L	1	50.0	<0.293	101	91.8 - 111	2	20
cis-1,3-Dichloropropene	52.6	µg/L	1	50.0	<0.207	105	94.6 - 117	4	20
trans-1,3-Dichloropropene	53.6	µg/L	1	50.0	<0.293	107	90.2 - 119	5	20
Toluene	50.7	µg/L	1	50.0	<0.268	101	91.3 - 110	5	20
1,1,2-Trichloroethane	50.4	µg/L	1	50.0	<0.329	101	94.3 - 106	3	20
1,3-Dichloropropane	50.2	µg/L	1	50.0	<0.316	100	92.2 - 108	3	20
Dibromochloromethane	54.0	µg/L	1	50.0	<0.290	108	92.1 - 122	4	20
1,2-Dibromoethane (EDB)	53.2	µg/L	1	50.0	<0.229	106	98.2 - 106	3	20
Tetrachloroethene (PCE)	47.0	µg/L	1	50.0	<0.233	94	20.2 - 156	4	20
Chlorobenzene	51.4	µg/L	1	50.0	<0.276	103	92.9 - 103	3	20
1,1,1,2-Tetrachloroethane	51.9	µg/L	1	50.0	<0.226	104	99.3 - 105	3	20
Ethylbenzene	49.2	µg/L	1	50.0	<0.245	98	90.5 - 107	3	20
m,p-Xylene	98.2	µg/L	1	100	<0.517	98	89.5 - 111	3	20
Bromoform	56.8	µg/L	1	50.0	<0.175	114	84.2 - 144	3	20
Styrene	49.5	µg/L	1	50.0	<0.239	99	94.3 - 113	3	20
o-Xylene	49.3	µg/L	1	50.0	<0.247	99	91.2 - 112	2	20
1,1,2,2-Tetrachloroethane	51.7	µg/L	1	50.0	<0.223	103	74.9 - 133	1	20
2-Chlorotoluene	49.3	µg/L	1	50.0	<0.235	99	87.4 - 110	2	20
1,2,3-Trichloropropane	51.6	µg/L	1	50.0	<0.230	103	86.6 - 114	1	20
Isopropylbenzene	50.6	µg/L	1	50.0	<0.226	101	87.6 - 115	2	20
Bromobenzene	49.8	µg/L	1	50.0	<0.245	100	91.3 - 105	2	20
n-Propylbenzene	50.1	µg/L	1	50.0	<0.234	100	84.4 - 113	3	20
1,3,5-Trimethylbenzene	49.4	µg/L	1	50.0	<0.261	99	89.3 - 109	2	20
tert-Butylbenzene	50.3	µg/L	1	50.0	<0.281	101	93.2 - 106	2	20
1,2,4-Trimethylbenzene	49.4	µg/L	1	50.0	<0.285	99	89.6 - 115	2	20
1,4-Dichlorobenzene (para)	51.7	µg/L	1	50.0	<0.307	103	88.4 - 106	2	20
sec-Butylbenzene	50.5	µg/L	1	50.0	<0.312	101	87.2 - 113	3	20
1,3-Dichlorobenzene (meta)	52.1	µg/L	1	50.0	<0.284	104	91.1 - 109	2	20
p-Isopropyltoluene	51.3	µg/L	1	50.0	<0.244	103	92.2 - 109	2	20
4-Chlorotoluene	50.8	µg/L	1	50.0	<0.257	102	89 - 110	3	20
1,2-Dichlorobenzene (ortho)	51.9	µg/L	1	50.0	<0.294	104	91.3 - 110	2	20
n-Butylbenzene	51.7	µg/L	1	50.0	<0.339	103	86.8 - 113	1	20
1,2-Dibromo-3-chloropropane	45.4	µg/L	1	50.0	3.14	91	72.3 - 130	0	20
1,2,3-Trichlorobenzene	46.9	µg/L	1	50.0	2.63	94	81.2 - 202	0	20
1,2,4-Trichlorobenzene	48.8	µg/L	1	50.0	2.71	98	65 - 145	0	20
Naphthalene	46.4	µg/L	1	50.0	3.19	93	84.5 - 150	0	20

continued ...

¹¹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Hexachlorobutadiene	50.4	µg/L	1	50.0	<1.02	101	70.2 - 133	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Dibromofluoromethane	50.3	50.2	µg/L	1	50.0	101	100	89.5 - 107
Toluene-d8	48.6	49.1	µg/L	1	50.0	97	98	92.6 - 102
4-Bromofluorobenzene (4-BFB)	49.8	50.2	µg/L	1	50.0	100	100	95.2 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Surfactants	1.09	MBAS mg/L	1	1.00	0	109	69.5 - 126

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Surfactants	1.02	MBAS mg/L	1	1.00	0	102	69.5 - 126	7	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: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00104	mg/L	1	0.00100	<0.0000251	104	89.6 - 111

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.00105	mg/L	1	0.00100	<0.0000251	103	89.6 - 111	1	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: 47240
Prep Batch: 40627

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-04

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0433	mg/L	1	0.0800	<0.0000241	54	10 - 141
2-Methylnaphthalene	0.0567	mg/L	1	0.0800	<0.0000751	71	50 - 150
1-Methylnaphthalene	0.0526	mg/L	1	0.0800	<0.0000281	66	50 - 150
Acenaphthylene	0.0532	mg/L	1	0.0800	<0.0000415	66	10 - 152
Acenaphthene	0.0526	mg/L	1	0.0800	<0.0000218	66	10 - 151
Dibenzofuran	0.0557	mg/L	1	0.0800	<0.0000416	70	10 - 148
Fluorene	0.0547	mg/L	1	0.0800	<0.0000437	68	10 - 172
Anthracene	0.0593	mg/L	1	0.0800	<0.000126	74	22.5 - 172
Phenanthrene	0.0599	mg/L	1	0.0800	<0.000129	75	19.6 - 172
Fluoranthene	0.0781	mg/L	1	0.0800	<0.000142	98	17.3 - 187
Pyrene	0.0569	mg/L	1	0.0800	<0.000155	71	14.9 - 199
Benzo(a)anthracene	0.0541	mg/L	1	0.0800	<0.000125	68	19.4 - 185
Chrysene	0.0561	mg/L	1	0.0800	<0.000105	70	18.4 - 188
Benzo(b)fluoranthene	0.0651	mg/L	1	0.0800	<0.0000607	81	10 - 193
Benzo(k)fluoranthene	0.0662	mg/L	1	0.0800	<0.0000690	83	27.8 - 196
Benzo(a)pyrene	0.0726	mg/L	1	0.0800	<0.0000466	91	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0909	mg/L	1	0.0800	<0.0000283	114	10 - 198
Dibenzo(a,h)anthracene	0.0882	mg/L	1	0.0800	<0.0000244	110	10 - 172
Benzo(g,h,i)perylene	0.0851	mg/L	1	0.0800	<0.0000171	106	10 - 186

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0448	mg/L	1	0.0800	<0.0000241	56	10 - 141	3	20
2-Methylnaphthalene	0.0589	mg/L	1	0.0800	<0.0000751	74	50 - 150	4	20
1-Methylnaphthalene	0.0555	mg/L	1	0.0800	<0.0000281	69	50 - 150	5	20
Acenaphthylene	0.0561	mg/L	1	0.0800	<0.0000415	70	10 - 152	5	20
Acenaphthene	0.0558	mg/L	1	0.0800	<0.0000218	70	10 - 151	6	20
Dibenzofuran	0.0591	mg/L	1	0.0800	<0.0000416	74	10 - 148	6	20
Fluorene	0.0588	mg/L	1	0.0800	<0.0000437	74	10 - 172	7	20
Anthracene	0.0622	mg/L	1	0.0800	<0.000126	78	22.5 - 172	5	20
Phenanthrene	0.0633	mg/L	1	0.0800	<0.000129	79	19.6 - 172	6	20
Fluoranthene	0.0808	mg/L	1	0.0800	<0.000142	101	17.3 - 187	3	20
Pyrene	0.0592	mg/L	1	0.0800	<0.000155	74	14.9 - 199	4	20
Benzo(a)anthracene	0.0563	mg/L	1	0.0800	<0.000125	70	19.4 - 185	4	20
Chrysene	0.0586	mg/L	1	0.0800	<0.000105	73	18.4 - 188	4	20
Benzo(b)fluoranthene	0.0654	mg/L	1	0.0800	<0.0000607	82	10 - 193	0	20
Benzo(k)fluoranthene	0.0669	mg/L	1	0.0800	<0.0000690	84	27.8 - 196	1	20
Benzo(a)pyrene	0.0730	mg/L	1	0.0800	<0.0000466	91	12.4 - 205	0	20
Indeno(1,2,3-cd)pyrene	0.0909	mg/L	1	0.0800	<0.0000283	114	10 - 198	0	20
Dibenzo(a,h)anthracene	0.0901	mg/L	1	0.0800	<0.0000244	113	10 - 172	2	20
Benzo(g,h,i)perylene	0.0870	mg/L	1	0.0800	<0.0000171	109	10 - 186	2	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	0.0544	0.0596	mg/L	1	0.0800	68	74	10 - 165
2-Fluorobiphenyl	0.0486	0.0504	mg/L	1	0.0800	61	63	10 - 157
Terphenyl-d14	0.0662	0.0696	mg/L	1	0.0800	83	87	10 - 220

Laboratory Control Spike (LCS-1)

QC Batch: 47550
Prep Batch: 40886

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-07

Analyzed By: BP
Prepared By: BP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Free Cyanide	0.0500	mg/L	1	0.0500	<0.00500	100	80 - 120

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Free Cyanide	0.0520	mg/L	1	0.0500	<0.00500	104	80 - 120	4	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹² 2710	mg/L	100	1250	920.265	143	78.2 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	¹³ 2530	mg/L	100	1250	920.265	129	78.2 - 120	7	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	246	mg/L	100	250	<8.89	97	58.3 - 135

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	249	mg/L	100	250	<8.89	99	58.3 - 135	1	20

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

¹²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrite-N	178	mg/L	100	250	<7.09	71	10 - 209

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrite-N	188	mg/L	100	250	<7.09	75	10 - 209	6	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	¹⁴ 379	mg/L	100	250	10.5501	147	75.8 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N	¹⁵ 381	mg/L	100	250	10.5501	148	75.8 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	1780	mg/L	100	1250	355.194	114	73.1 - 121

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	1780	mg/L	100	1250	355.194	114	73.1 - 121	0	20

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

¹⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.121	mg/L	1	0.125	<0.00210	97	76.1 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.120	mg/L	1	0.125	<0.00210	96	76.1 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.980	mg/L	1	1.00	<0.0228	98	75 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum	1.04	mg/L	1	1.00	<0.0228	104	75 - 117	6	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Arsenic	0.445	mg/L	1	0.500	<0.00430	89	81.6 - 116

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Arsenic	0.445	mg/L	1	0.500	<0.00430	89	81.6 - 116	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Barium	0.809	mg/L	1	1.00	0.008	80	75 - 123

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Barium	0.806	mg/L	1	1.00	0.008	80	75 - 123	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Beryllium	0.0210	mg/L	1	0.0250	<0.00220	84	75 - 113

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Beryllium	0.0210	mg/L	1	0.0250	<0.00220	84	75 - 113	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cadmium	0.187	mg/L	1	0.250	<0.00140	75	75 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cadmium	0.195	mg/L	1	0.250	<0.00140	78	75 - 115	4	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	0.100	mg/L	1	0.100	0.022	78	75 - 125

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

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Chromium	0.0990	mg/L	1	0.100	0.022	77	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.115	mg/L	1	0.125	<0.00140	92	81 - 112

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper	0.115	mg/L	1	0.125	<0.00140	92	81 - 112	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.454	mg/L	1	0.500	<0.00690	91	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	0.486	mg/L	1	0.500	<0.00690	97	75 - 125	7	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.193	mg/L	1	0.250	<0.000600	77	75 - 111

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.191	mg/L	1	0.250	<0.000600	76	75 - 111	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	0.423	mg/L	1	0.500	<0.00320	85	82.6 - 114

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	0.445	mg/L	1	0.500	<0.00320	89	82.6 - 114	5	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Antimony	0.219	mg/L	1	0.250	<0.0166	88	75 - 112

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Antimony	0.214	mg/L	1	0.250	<0.0166	86	75 - 112	2	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Selenium	0.544	mg/L	1	0.500	0.132	82	75 - 106

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Selenium	0.538	mg/L	1	0.500	0.132	81	75 - 106	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Thallium	0.398	mg/L	1	0.500	<0.0189	80	75 - 124

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Thallium	0.396	mg/L	1	0.500	<0.0189	79	75 - 124	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.199	mg/L	1	0.250	<0.00710	80	76.9 - 111

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	0.215	mg/L	1	0.250	<0.00710	86	76.9 - 111	8	20

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

Matrix Spike (MS-1) Spiked Sample: 155638

QC Batch: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	49.8	µg/L	1	50.0	<0.197	100	82.3 - 118
Dichlorodifluoromethane	45.1	µg/L	1	50.0	<0.672	90	24.2 - 131
Chloromethane (methyl chloride)	41.0	µg/L	1	50.0	<0.542	82	69.6 - 118
Vinyl Chloride	41.9	µg/L	1	50.0	<0.516	84	80.8 - 107
Bromomethane (methyl bromide)	46.9	µg/L	1	50.0	<0.446	94	74.8 - 126
Chloroethane	42.9	µg/L	1	50.0	<0.656	86	74.6 - 124
Trichlorofluoromethane	48.4	µg/L	1	50.0	<0.538	97	66.8 - 115
Acetone	16 54.6	µg/L	1	50.0	<1.10	109	15 - 80.4
Iodomethane (methyl iodide)	48.0	µg/L	1	50.0	<0.214	96	75.2 - 114
Carbon Disulfide	36.5	µg/L	1	50.0	<0.294	73	69 - 121
Acrylonitrile	43.3	µg/L	1	50.0	<0.442	87	69.6 - 135
2-Butanone (MEK)	17 62.1	µg/L	1	50.0	<0.420	124	28.1 - 108
4-Methyl-2-pentanone (MIBK)	58.7	µg/L	1	50.0	<0.407	117	81.5 - 117
2-Hexanone	18 73.5	µg/L	1	50.0	<0.486	147	44.6 - 122
trans 1,4-Dichloro-2-butene	48.4	µg/L	1	50.0	<0.463	97	48.3 - 128

continued ...

¹⁶Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

¹⁷Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

¹⁸Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	50.4	µg/L	1	50.0	<0.237	101	74.7 - 112
Methylene chloride	45.8	µg/L	1	50.0	<0.312	92	74.8 - 120
MTBE	36.9	µg/L	1	50.0	<0.318	74	73.5 - 125
trans-1,2-Dichloroethene	44.6	µg/L	1	50.0	<0.217	89	81.3 - 115
1,1-Dichloroethane	52.1	µg/L	1	50.0	6.25	92	76.8 - 122
cis-1,2-Dichloroethene	47.0	µg/L	1	50.0	<0.309	94	81 - 116
2,2-Dichloropropane	30.6	µg/L	1	50.0	<0.318	61	21.1 - 110
1,2-Dichloroethane (EDC)	47.2	µg/L	1	50.0	<0.292	94	73.6 - 125
Chloroform	48.3	µg/L	1	50.0	0.78	95	74 - 122
1,1,1-Trichloroethane	43.2	µg/L	1	50.0	1.63	83	73.4 - 119
1,1-Dichloropropene	47.5	µg/L	1	50.0	<0.286	95	73.8 - 119
Benzene	47.1	µg/L	1	50.0	<0.319	94	80.2 - 114
Carbon Tetrachloride	44.6	µg/L	1	50.0	<0.223	89	83.6 - 111
1,2-Dichloropropane	46.9	µg/L	1	50.0	<0.266	94	79.4 - 121
Trichloroethene (TCE)	50.7	µg/L	1	50.0	0.82	100	78.8 - 106
Dibromomethane (methylene bromide)	50.9	µg/L	1	50.0	<0.341	102	88 - 114
Bromodichloromethane	50.6	µg/L	1	50.0	<0.291	101	80.3 - 121
2-Chloroethyl vinyl ether	¹⁹ <0.293	µg/L	1	50.0	<0.293	0	79.4 - 121
cis-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.207	98	74.3 - 118
trans-1,3-Dichloropropene	50.4	µg/L	1	50.0	<0.293	101	69.2 - 121
Toluene	48.4	µg/L	1	50.0	<0.268	97	87.5 - 112
1,1,2-Trichloroethane	48.0	µg/L	1	50.0	<0.329	96	89.1 - 110
1,3-Dichloropropane	48.3	µg/L	1	50.0	<0.316	97	88.1 - 113
Dibromochloromethane	51.9	µg/L	1	50.0	<0.290	104	84 - 121
1,2-Dibromoethane (EDB)	51.1	µg/L	1	50.0	<0.229	102	89.1 - 111
Tetrachloroethene (PCE)	34.5	µg/L	1	50.0	<0.233	69	42.9 - 72.6
Chlorobenzene	48.8	µg/L	1	50.0	<0.276	98	75.2 - 114
1,1,1,2-Tetrachloroethane	50.3	µg/L	1	50.0	<0.226	101	87.7 - 113
Ethylbenzene	46.2	µg/L	1	50.0	<0.245	92	74.6 - 118
m,p-Xylene	93.4	µg/L	1	100	<0.517	93	72.9 - 120
Bromoform	55.5	µg/L	1	50.0	<0.175	111	79.2 - 135
Styrene	45.1	µg/L	1	50.0	<0.239	90	41.7 - 137
o-Xylene	46.9	µg/L	1	50.0	<0.247	94	74.1 - 123
1,1,2,2-Tetrachloroethane	51.5	µg/L	1	50.0	<0.223	103	80.7 - 131
2-Chlorotoluene	46.6	µg/L	1	50.0	<0.235	93	71.6 - 117
1,2,3-Trichloropropane	50.4	µg/L	1	50.0	<0.230	101	78.4 - 109
Isopropylbenzene	47.7	µg/L	1	50.0	<0.226	95	72.4 - 118
Bromobenzene	47.5	µg/L	1	50.0	<0.245	95	72.7 - 115
n-Propylbenzene	46.8	µg/L	1	50.0	<0.234	94	69.1 - 117
1,3,5-Trimethylbenzene	46.2	µg/L	1	50.0	<0.261	92	70.6 - 116
tert-Butylbenzene	47.4	µg/L	1	50.0	<0.281	95	77.1 - 113
1,2,4-Trimethylbenzene	46.0	µg/L	1	50.0	<0.285	92	76.5 - 118
1,4-Dichlorobenzene (para)	48.7	µg/L	1	50.0	<0.307	97	80.6 - 106
sec-Butylbenzene	45.9	µg/L	1	50.0	<0.312	92	74 - 113
1,3-Dichlorobenzene (meta)	49.1	µg/L	1	50.0	<0.284	98	81.4 - 109
p-Isopropyltoluene	46.8	µg/L	1	50.0	<0.244	94	74.6 - 114
4-Chlorotoluene	47.4	µg/L	1	50.0	<0.257	95	71.3 - 117
1,2-Dichlorobenzene (ortho)	49.7	µg/L	1	50.0	<0.294	99	87 - 104
n-Butylbenzene	46.1	µg/L	1	50.0	<0.339	92	65.7 - 115

continued ...

¹⁹Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,2-Dibromo-3-chloropropane	43.3	µg/L	1	50.0	3.14	80	45.5 - 132
1,2,3-Trichlorobenzene	34.6	µg/L	1	50.0	<0.736	69	10 - 200
1,2,4-Trichlorobenzene	41.6	µg/L	1	50.0	<0.432	83	26.5 - 139
Naphthalene	37.9	µg/L	1	50.0	<0.475	76	10 - 203
Hexachlorobutadiene	43.4	µg/L	1	50.0	<1.02	87	50.9 - 108

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.1	µg/L	1	50.0	<0.197	102	82.3 - 118	3	20
Dichlorodifluoromethane	44.0	µg/L	1	50.0	<0.672	88	24.2 - 131	2	20
Chloromethane (methyl chloride)	42.6	µg/L	1	50.0	<0.542	85	69.6 - 118	4	20
Vinyl Chloride	42.0	µg/L	1	50.0	<0.516	84	80.8 - 107	0	20
Bromomethane (methyl bromide)	47.5	µg/L	1	50.0	<0.446	95	74.8 - 126	1	20
Chloroethane	45.2	µg/L	1	50.0	<0.656	90	74.6 - 124	5	20
Trichlorofluoromethane	48.4	µg/L	1	50.0	<0.538	97	66.8 - 115	0	20
Acetone	53.1	µg/L	1	50.0	<1.10	106	15 - 80.4	3	20
Iodomethane (methyl iodide)	48.8	µg/L	1	50.0	<0.214	98	75.2 - 114	2	20
Carbon Disulfide	34.4	µg/L	1	50.0	<0.294	69	69 - 121	6	20
Acrylonitrile	45.2	µg/L	1	50.0	<0.442	90	69.6 - 135	4	20
2-Butanone (MEK)	61.8	µg/L	1	50.0	<0.420	124	28.1 - 108	0	20
4-Methyl-2-pentanone (MIBK)	60.7	µg/L	1	50.0	<0.407	121	81.5 - 117	3	20
2-Hexanone	76.5	µg/L	1	50.0	<0.486	153	44.6 - 122	4	20
trans 1,4-Dichloro-2-butene	48.9	µg/L	1	50.0	<0.463	98	48.3 - 128	1	20
1,1-Dichloroethene	52.0	µg/L	1	50.0	<0.237	104	74.7 - 112	3	20
Methylene chloride	46.8	µg/L	1	50.0	<0.312	94	74.8 - 120	2	20
MTBE	39.2	µg/L	1	50.0	<0.318	78	73.5 - 125	6	20
trans-1,2-Dichloroethene	45.3	µg/L	1	50.0	<0.217	91	81.3 - 115	2	20
1,1-Dichloroethane	54.1	µg/L	1	50.0	6.25	96	76.8 - 122	4	20
cis-1,2-Dichloroethene	48.8	µg/L	1	50.0	<0.309	98	81 - 116	4	20
2,2-Dichloropropane	31.2	µg/L	1	50.0	<0.318	62	21.1 - 110	2	20
1,2-Dichloroethane (EDC)	48.2	µg/L	1	50.0	<0.292	96	73.6 - 125	2	20
Chloroform	48.4	µg/L	1	50.0	0.78	95	74 - 122	0	20
1,1,1-Trichloroethane	44.1	µg/L	1	50.0	1.63	85	73.4 - 119	2	20
1,1-Dichloropropene	47.6	µg/L	1	50.0	<0.286	95	73.8 - 119	0	20
Benzene	47.4	µg/L	1	50.0	<0.319	95	80.2 - 114	1	20
Carbon Tetrachloride	44.4	µg/L	1	50.0	<0.223	89	83.6 - 111	0	20
1,2-Dichloropropane	47.3	µg/L	1	50.0	<0.266	95	79.4 - 121	1	20
Trichloroethene (TCE)	50.2	µg/L	1	50.0	0.82	99	78.8 - 106	1	20
Dibromomethane (methylene bromide)	50.3	µg/L	1	50.0	<0.341	101	88 - 114	1	20
Bromodichloromethane	49.8	µg/L	1	50.0	<0.291	100	80.3 - 121	2	20
2-Chloroethyl vinyl ether	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121	0	20
cis-1,3-Dichloropropene	48.2	µg/L	1	50.0	<0.207	96	74.3 - 118	2	20
trans-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.293	98	69.2 - 121	2	20
Toluene	47.7	µg/L	1	50.0	<0.268	95	87.5 - 112	1	20
1,1,2-Trichloroethane	49.3	µg/L	1	50.0	<0.329	99	89.1 - 110	3	20

continued ...

²⁰Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

²¹Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

²²Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

²³Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

²⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,3-Dichloropropane	49.9	µg/L	1	50.0	<0.316	100	88.1 - 113	3	20
Dibromochloromethane	52.9	µg/L	1	50.0	<0.290	106	84 - 121	2	20
1,2-Dibromoethane (EDB)	52.7	µg/L	1	50.0	<0.229	105	89.1 - 111	3	20
Tetrachloroethene (PCE)	35.6	µg/L	1	50.0	<0.233	71	42.9 - 72.6	3	20
Chlorobenzene	49.8	µg/L	1	50.0	<0.276	100	75.2 - 114	2	20
1,1,1,2-Tetrachloroethane	50.4	µg/L	1	50.0	<0.226	101	87.7 - 113	0	20
Ethylbenzene	47.3	µg/L	1	50.0	<0.245	95	74.6 - 118	2	20
m,p-Xylene	94.7	µg/L	1	100	<0.517	95	72.9 - 120	1	20
Bromoform	56.3	µg/L	1	50.0	<0.175	113	79.2 - 135	1	20
Styrene	45.2	µg/L	1	50.0	<0.239	90	41.7 - 137	0	20
o-Xylene	47.9	µg/L	1	50.0	<0.247	96	74.1 - 123	2	20
1,1,2,2-Tetrachloroethane	52.5	µg/L	1	50.0	<0.223	105	80.7 - 131	2	20
2-Chlorotoluene	48.2	µg/L	1	50.0	<0.235	96	71.6 - 117	3	20
1,2,3-Trichloropropane	52.0	µg/L	1	50.0	<0.230	104	78.4 - 109	3	20
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	72.4 - 118	4	20
Bromobenzene	49.0	µg/L	1	50.0	<0.245	98	72.7 - 115	3	20
n-Propylbenzene	48.5	µg/L	1	50.0	<0.234	97	69.1 - 117	4	20
1,3,5-Trimethylbenzene	48.0	µg/L	1	50.0	<0.261	96	70.6 - 116	4	20
tert-Butylbenzene	48.5	µg/L	1	50.0	<0.281	97	77.1 - 113	2	20
1,2,4-Trimethylbenzene	47.4	µg/L	1	50.0	<0.285	95	76.5 - 118	3	20
1,4-Dichlorobenzene (para)	50.7	µg/L	1	50.0	<0.307	101	80.6 - 106	4	20
sec-Butylbenzene	48.0	µg/L	1	50.0	<0.312	96	74 - 113	4	20
1,3-Dichlorobenzene (meta)	50.7	µg/L	1	50.0	<0.284	101	81.4 - 109	3	20
p-Isopropyltoluene	48.8	µg/L	1	50.0	<0.244	98	74.6 - 114	4	20
4-Chlorotoluene	49.5	µg/L	1	50.0	<0.257	99	71.3 - 117	4	20
1,2-Dichlorobenzene (ortho)	51.0	µg/L	1	50.0	<0.294	102	87 - 104	3	20
n-Butylbenzene	48.8	µg/L	1	50.0	<0.339	98	65.7 - 115	6	20
1,2-Dibromo-3-chloropropane	48.9	µg/L	1	50.0	3.14	92	45.5 - 132	12	20
1,2,3-Trichlorobenzene	²⁵ 43.9	µg/L	1	50.0	<0.736	88	10 - 200	24	20
1,2,4-Trichlorobenzene	47.5	µg/L	1	50.0	<0.432	95	26.5 - 139	13	20
Naphthalene	45.6	µg/L	1	50.0	<0.475	91	10 - 203	18	20
Hexachlorobutadiene	47.4	µg/L	1	50.0	<1.02	95	50.9 - 108	9	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	49.9	49.7	µg/L	1	50	100	99	91.5 - 112
Toluene-d8	47.8	48.0	µg/L	1	50	96	96	90.6 - 105
4-Bromofluorobenzene (4-BFB)	48.7	48.7	µg/L	1	50	97	97	88.7 - 112

Matrix Spike (MS-1) Spiked Sample: 155151

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

continued ...

²⁵RPD outside control limits. Use LCS/LCSD to show analysis is under control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Surfactants	0.920	MBAS mg/L	1	1.00	0.065	86	10 - 168

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Surfactants	0.876	MBAS mg/L	1	1.00	0.065	81	10 - 168	5	20

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

Matrix Spike (MS-1) Spiked Sample: 155146

QC Batch: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00109	mg/L	1	0.00100	<0.0000251	109	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.00108	mg/L	1	0.00100	<0.0000251	108	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155151

QC Batch: 47550
Prep Batch: 40886

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-07

Analyzed By: BP
Prepared By: BP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Free Cyanide	0.0520	mg/L	1	0.0500	<0.00500	104	80 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Free Cyanide	0.0480	mg/L	1	0.0500	<0.00500	96	80 - 120	8	20

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

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.4	107	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.34	94	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrite-N		mg/L	2.50	2.70	108	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.71	108	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	13.6	109	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.66	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrite-N		mg/L	2.50	2.66	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.67	107	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	13.4	107	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.125	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

Page Number: 41 of 50
Hobbs, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.985	98	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1.00	0.997	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Beryllium		mg/L	1.00	0.972	97	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cadmium		mg/L	1.00	1.03	103	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/L	1.00	1.01	101	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.998	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.998	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	0.989	99	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	0.995	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Antimony		mg/L	1.00	0.984	98	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

Page Number: 43 of 50
Hobbs, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Selenium		mg/L	1.00	0.966	97	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Thallium		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	0.995	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.130	104	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.997	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		mg/L	1.00	1.03	103	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Beryllium		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cadmium		mg/L	1.00	1.05	105	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Antimony		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Selenium		mg/L	1.00	0.975	98	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Thallium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	1.01	101	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47119

Date Analyzed: 2008-04-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	979.0	98	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47119

Date Analyzed: 2008-04-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1001	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47140

Date Analyzed: 2008-04-04

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	46.9	94	70 - 130	2008-04-04
Dichlorodifluoromethane		µg/L	50.0	46.8	94	70 - 130	2008-04-04
Chloromethane (methyl chloride)		µg/L	50.0	40.4	81	70 - 130	2008-04-04
Vinyl Chloride		µg/L	50.0	41.4	83	80 - 120	2008-04-04
Bromomethane (methyl bromide)		µg/L	50.0	45.3	91	70 - 130	2008-04-04
Chloroethane		µg/L	50.0	44.1	88	70 - 130	2008-04-04
Trichlorofluoromethane		µg/L	50.0	48.5	97	70 - 130	2008-04-04
Acetone	26	µg/L	50.0	98.3	197	70 - 130	2008-04-04
Iodomethane (methyl iodide)		µg/L	50.0	46.3	93	70 - 130	2008-04-04
Carbon Disulfide		µg/L	50.0	38.8	78	70 - 130	2008-04-04
Acrylonitrile		µg/L	50.0	40.8	82	70 - 130	2008-04-04
2-Butanone (MEK)	27	µg/L	50.0	82.1	164	70 - 130	2008-04-04
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	49.0	98	70 - 130	2008-04-04

continued ...

²⁶Acetone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

²⁷2-Butanone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Hexanone	28	µg/L	50.0	82.4	165	70 - 130	2008-04-04
trans 1,4-Dichloro-2-butene		µg/L	50.0	46.4	93	70 - 130	2008-04-04
1,1-Dichloroethene		µg/L	50.0	48.1	96	80 - 120	2008-04-04
Methylene chloride		µg/L	50.0	43.6	87	70 - 130	2008-04-04
MTBE		µg/L	50.0	38.0	76	70 - 130	2008-04-04
trans-1,2-Dichloroethene		µg/L	50.0	44.9	90	70 - 130	2008-04-04
1,1-Dichloroethane		µg/L	50.0	44.0	88	70 - 130	2008-04-04
cis-1,2-Dichloroethene		µg/L	50.0	44.6	89	70 - 130	2008-04-04
2,2-Dichloropropane		µg/L	50.0	35.5	71	70 - 130	2008-04-04
1,2-Dichloroethane (EDC)		µg/L	50.0	45.2	90	70 - 130	2008-04-04
Chloroform		µg/L	50.0	45.8	92	80 - 120	2008-04-04
1,1,1-Trichloroethane		µg/L	50.0	40.8	82	70 - 130	2008-04-04
1,1-Dichloropropene		µg/L	50.0	45.7	91	70 - 130	2008-04-04
Benzene		µg/L	50.0	44.7	89	70 - 130	2008-04-04
Carbon Tetrachloride		µg/L	50.0	44.0	88	70 - 130	2008-04-04
1,2-Dichloropropane		µg/L	50.0	45.0	90	80 - 120	2008-04-04
Trichloroethene (TCE)		µg/L	50.0	47.5	95	70 - 130	2008-04-04
Dibromomethane (methylene bromide)		µg/L	50.0	47.4	95	70 - 130	2008-04-04
Bromodichloromethane		µg/L	50.0	47.4	95	70 - 130	2008-04-04
2-Chloroethyl vinyl ether		µg/L	50.0	46.0	92	70 - 130	2008-04-04
cis-1,3-Dichloropropene		µg/L	50.0	47.7	95	70 - 130	2008-04-04
trans-1,3-Dichloropropene		µg/L	50.0	48.8	98	70 - 130	2008-04-04
Toluene		µg/L	50.0	45.6	91	80 - 120	2008-04-04
1,1,2-Trichloroethane		µg/L	50.0	45.3	91	70 - 130	2008-04-04
1,3-Dichloropropane		µg/L	50.0	45.5	91	70 - 130	2008-04-04
Dibromochloromethane		µg/L	50.0	49.0	98	70 - 130	2008-04-04
1,2-Dibromoethane (EDB)		µg/L	50.0	47.9	96	70 - 130	2008-04-04
Tetrachloroethene (PCE)		µg/L	50.0	36.7	73	70 - 130	2008-04-04
Chlorobenzene		µg/L	50.0	46.7	93	80 - 120	2008-04-04
1,1,1,2-Tetrachloroethane		µg/L	50.0	47.9	96	70 - 130	2008-04-04
Ethylbenzene		µg/L	50.0	44.8	90	80 - 120	2008-04-04
m,p-Xylene		µg/L	100	90.1	90	70 - 130	2008-04-04
Bromoform		µg/L	50.0	51.4	103	70 - 130	2008-04-04
Styrene		µg/L	50.0	45.2	90	70 - 130	2008-04-04
o-Xylene		µg/L	50.0	45.5	91	70 - 130	2008-04-04
1,1,2,2-Tetrachloroethane		µg/L	50.0	47.8	96	70 - 130	2008-04-04
2-Chlorotoluene		µg/L	50.0	44.4	89	70 - 130	2008-04-04
1,2,3-Trichloropropane		µg/L	50.0	46.5	93	70 - 130	2008-04-04
Isopropylbenzene		µg/L	50.0	45.3	91	70 - 130	2008-04-04
Bromobenzene		µg/L	50.0	44.7	89	70 - 130	2008-04-04
n-Propylbenzene		µg/L	50.0	45.0	90	70 - 130	2008-04-04
1,3,5-Trimethylbenzene		µg/L	50.0	44.6	89	70 - 130	2008-04-04
tert-Butylbenzene		µg/L	50.0	45.6	91	70 - 130	2008-04-04
1,2,4-Trimethylbenzene		µg/L	50.0	44.9	90	70 - 130	2008-04-04
1,4-Dichlorobenzene (para)		µg/L	50.0	46.9	94	70 - 130	2008-04-04
sec-Butylbenzene		µg/L	50.0	45.2	90	70 - 130	2008-04-04
1,3-Dichlorobenzene (meta)		µg/L	50.0	47.1	94	70 - 130	2008-04-04

continued ...

²⁸2-Hexanone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
p-Isopropyltoluene		µg/L	50.0	46.5	93	70 - 130	2008-04-04
4-Chlorotoluene		µg/L	50.0	45.3	91	70 - 130	2008-04-04
1,2-Dichlorobenzene (ortho)		µg/L	50.0	47.2	94	70 - 130	2008-04-04
n-Butylbenzene		µg/L	50.0	47.1	94	70 - 130	2008-04-04
1,2-Dibromo-3-chloropropane		µg/L	50.0	40.5	81	70 - 130	2008-04-04
1,2,3-Trichlorobenzene		µg/L	50.0	41.1	82	70 - 130	2008-04-04
1,2,4-Trichlorobenzene		µg/L	50.0	43.1	86	70 - 130	2008-04-04
Naphthalene		µg/L	50.0	40.6	81	70 - 130	2008-04-04
Hexachlorobutadiene		µg/L	50.0	45.7	91	70 - 130	2008-04-04

Standard (ICV-1)

QC Batch: 47167

Date Analyzed: 2008-04-02

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Surfactants		MBAS mg/L	1.00	1.11	111	85 - 115	2008-04-02

Standard (CCV-1)

QC Batch: 47167

Date Analyzed: 2008-04-02

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Surfactants		MBAS mg/L	1.00	1.13	113	85 - 115	2008-04-02

Standard (ICV-1)

QC Batch: 47227

Date Analyzed: 2008-04-08

Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000922	92	90 - 110	2008-04-08

Standard (CCV-1)

QC Batch: 47227

Date Analyzed: 2008-04-08

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.00108	108	80 - 120	2008-04-08

Standard (CCV-1)

QC Batch: 47240

Date Analyzed: 2008-04-08

Analyzed By: DS

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	2008-04-08
2-Methylnaphthalene		mg/L	60.0	61.3	102	80 - 120	2008-04-08
1-Methylnaphthalene		mg/L	60.0	60.8	101	80 - 120	2008-04-08
Acenaphthylene		mg/L	60.0	57.4	96	80 - 120	2008-04-08
Acenaphthene		mg/L	60.0	58.0	97	80 - 120	2008-04-08
Dibenzofuran		mg/L	60.0	63.6	106	80 - 120	2008-04-08
Fluorene		mg/L	60.0	62.2	104	80 - 120	2008-04-08
Anthracene		mg/L	60.0	57.9	96	80 - 120	2008-04-08
Phenanthrene		mg/L	60.0	60.0	100	80 - 120	2008-04-08
Fluoranthene		mg/L	60.0	69.3	116	80 - 120	2008-04-08
Pyrene		mg/L	60.0	60.7	101	80 - 120	2008-04-08
Benzo(a)anthracene		mg/L	60.0	56.8	95	80 - 120	2008-04-08
Chrysene		mg/L	60.0	57.2	95	80 - 120	2008-04-08
Benzo(b)fluoranthene		mg/L	60.0	58.9	98	80 - 120	2008-04-08
Benzo(k)fluoranthene		mg/L	60.0	60.2	100	80 - 120	2008-04-08
Benzo(a)pyrene		mg/L	60.0	64.4	107	80 - 120	2008-04-08
Indeno(1,2,3-cd)pyrene	²⁹	mg/L	60.0	79.3	132	80 - 120	2008-04-08
Dibenzo(a,h)anthracene	³⁰	mg/L	60.0	80.6	134	80 - 120	2008-04-08
Benzo(g,h,i)perylene	³¹	mg/L	60.0	77.4	129	80 - 120	2008-04-08

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		71.5	mg/L	1	60.0	119	80 - 120
2-Fluorobiphenyl		70.1	mg/L	1	60.0	117	80 - 120
Terphenyl-d14		68.9	mg/L	1	60.0	115	80 - 120

Standard (ICV-1)

QC Batch: 47550

Date Analyzed: 2008-04-08

Analyzed By: BP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Free Cyanide		mg/L	0.100	0.108	108	90 - 110	2008-04-08

Standard (CCV-1)

QC Batch: 47550

Date Analyzed: 2008-04-08

Analyzed By: BP

²⁹Indeno(1,2,3-cd)pyrene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

³⁰Dibenzo(a,h)anthracene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

³¹Benzo(g,h,i)perylene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

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Hobbs, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Free Cyanide		mg/L	0.100	0.106	106	90 - 110	2008-04-08

SEC ✓	Manganese - Metals
SEC ✓	Odor - WC
SEC ✓	pH - WC
SEC ✓	Silver - Metals
SEC	Sulfate - WC
SEC ✓	Total Dissolved Solids - WC
SEC	Zinc - Metals
SOC	1,2-Dibromo-3-chloropropane (DBCP)
SOC	2,4,5-TP (Silvex)
SOC	2,4-D
SOC	Acrylamide
SOC	Alachlor
SOC	Atrazine
SOC	Benzo(a)pyrene (PAHs)
SOC	Carbofuran
SOC	Chlordane
SOC	Dalapon
SOC	Di(2-ethylhexyl) adipate
SOC	Di(2-ethylhexyl) phthalate
SOC	Dinoseb
SOC	Dioxin (2,3,7,8-TCDD)
SOC	Diquat
SOC	Endothal
SOC	Endrin
SOC	Epichlorohydrin
SOC	Ethylene dibromide
SOC	Glyphosate
SOC	Heptachlor
SOC	Heptachlor epoxide
SOC	Hexachlorobenzene
SOC	Hexachlorocyclopentadiene
SOC	Lindane
SOC	Methoxychlor
SOC	Oxamyl (Vydate)
SOC	Pentachlorophenol
SOC	Picloram
SOC	Polychlorinated biphenyls (PCBs)
SOC	Simazine
SOC	Toxaphene
VOC	1,1,1-Trichloroethane
VOC	1,1,2-Trichloroethane
VOC	1,1-Dichloroethylene
VOC	1,2,4-Trichlorobenzene
VOC	1,2-Dichloroethane
VOC	1,2-Dichloropropane
VOC	Benzene
VOC	Carbon tetrachloride
VOC	Chlorobenzene

Group	Contaminant
D	Chloramines (as Cl ₂)
D	Chlorine (as Cl ₂)
D	Chlorine dioxide (as ClO ₂)
DBP	Bromate
DBP	Chlorite
DBP	Haloacetic acids (HAA5)
DBP	Total Trihalomethanes (TTHMs)
IOC	Antimony - Metals
IOC ✓	Arsenic - Metals
IEG	Asbestos (fibers > 10 micrometers)
IOC	Barium - Metals
IOC	Beryllium - Metals
IOC	Cadmium - Metals
IOC	Chromium (total) - Metals
IOC	Copper - Metals
IOC	Cyanide (as free cyanide) - WC
IOC	Fluoride - WC
IOC	Lead - Metals
IOC	Mercury (inorganic) - Metals
IOC	Nitrate (measured as Nitrogen) - WC
IOC	Nitrite (measured as Nitrogen) - WC
IOC	Selenium - Metals
IOC	Thallium - Metals
M	Cryptosporidium
M	Giardia lamblia
M	Heterotrophic plate count (HPC)
M	Legionella
M	Total Coliforms (including fecal coliform and E. coli)
M	Turbidity
M	Viruses (enteric)
RAD	Alpha particles
RAD	Beta particles and photon emitters
RAD	Radium 226 and Radium 228 (combined)
RAD	Uranium
SEC	Aluminum - Metals
SEC	Chloride - WC
SEC	Color - WC
SEC	Copper - Metals
SEC	Corrosivity - WC
SEC	Fluoride - WC
SEC	Foaming Agents - WC (Surfactants)
SEC	Iron - Metals

VOC

IOC

SEC

Benzo-a-pyrene

VOC	cis-1,2-Dichloroethylene
VOC	Dichloromethane
VOC	Ethylbenzene
VOC	o-Dichlorobenzene
VOC	p-Dichlorobenzene
VOC	Styrene
VOC	Tetrachloroethylene
VOC	Toluene
VOC	trans-1,2-Dichloroethylene
VOC	Trichloroethylene
VOC	Vinyl chloride
VOC	Xylenes (total)

SOIL BORING / MONITORING WELL LOG

PROJECT: MAIN LINE SRS 2003-0017

DRILLING COMPANY: Straube Corporation

PROJECT NUMBER: PLAINS047SPL

DRILLER: Edward Bryan

CLIENT: PLAINS LP

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-23

BORE HOLE DIAMETER: 5"

TOTAL DEPTH: 50'

SCREEN: Diam. 2" Length 20' Slot Size 0.010"

SURFACE ELEVATION: 3672.39'

CASING: Diam. 2" Length 30' Type PVC Sch 40

GEOLOGIST: Carl Vessels

DATE DRILLED: March 17, 2008

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0							Tan, Sand, Fine Grain, Sandstone, Caliche	0
5'					5'-5'6"	7'	Tan, Sand, Fine Grain, Sandstone, Medium Density	10
15'						15'	Tan, Sand, Fine Grain, Sandstone, Caliche	20
19'						19'	tan, Sand, Fine Grain, Sandstone	30
20'-20'6"					20'-20'6"	33'	Tan, Sand, Fine Grain	40
35'-35'6"					35'-35'6"	50'	Bottom of Hole	50
60								60

REMARKS:

THIS WELL DIAGRAM AND BORE LOG SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT.



SOIL BORING / MONITORING WELL LOG

PROJECT: MAIN LINE SRS 2003-0017

DRILLING COMPANY: Straube Corporation

PROJECT NUMBER: PLAINS047SPL

DRILLER: Edward Bryan

CLIENT: PLAINS LP

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-24

BORE HOLE DIAMETER: 5"

TOTAL DEPTH: 50'

SCREEN: Diam. 2" Length 20' Slot Size 0.010"

SURFACE ELEVATION: 3672.79'

CASING: Diam. 2" Length 30' Type PVC Sch 40

GEOLOGIST: Carl Vessels

DATE DRILLED: March 17, 2008

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0							Tan, Sand, Fine Grain, Sandstone, Dense	0
10					5'-5'6"	12'	Tan, Sand, Fine Grain (Dense), Sandstone, Caliche	10
20					20'-20'6"	17'	Tan, Sand, Fine Grain, Sandstone	20
30						31'	Tan, Sand, Fine Grain, Sandstone, Caliche Nodules	30
40					35'-35'6"	34'	Tan, Sand, Fine Grain	40
50						50'	Bottom of Hole	50
60								60

REMARKS:

THIS WELL DIAGRAM AND BORE LOG SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT.



KEY TO SYMBOLS

Symbol Description

Strata symbols



Caliche



Well graded sand

Misc. Symbols



Water table at
boring completion

Soil Samplers



Bulk/Grab sample

Monitor Well Details



Recessed cover
set in concrete



Bentonite pellets



Silica sand, blank PVC



Slotted pipe w/ sand



Endcap on pipe
Packed in sand