AP - 11

ANNUAL MONITORING REPORT

YEAR(S):

2007

FORMER BERTHA BARBER TANK BATTERY

2008 Annual Groundwater Monitoring Report

May 2008

MARATHON OIL COMPANY

HOUSTON, TEXAS

Prepared By:

BBC International, Inc.
World-Wide Environmental Specialists

North American Production Operations

P. O. Box 3128
Houston, TX 77253-3128

5555 San Felipe Road
Houston, TX 77056-2799

Telephone: (713) 296-3510
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Marathon Oil Company

HAND DELIVERED

May 15, 2008

Mr. Wayne Price
Environment Bureau - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87504

RE: 2007 Annual Groundwater Monitoring Report,
Former Bertha Barber Tank Battery (BBTB) Remediation
Lea County, NM

Dear Mr. Price:

Please find enclosed Annual Groundwater Monitoring Report for former BBTB site. The annual report, which was prepared by BBC International., summarizes the groundwater monitoring and remediation activities associated with the Project in 2007.

If you have any questions or need any additional information, please contact me at (713) 296-3510 or at TCPersaud@MarathonOil.com.

Sincerely,

Terry Persaud, P.E.
Senior HES Professional

File: NM-BBTB - Annual Groundwater Monitoring Report

TCP\
Enclosures

cc: Tom Breninger, Operations Superintendant - w\o Encls
Paul Peacock, NAPO - HES Manager - w\o Encls

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1.0 INTRODUCTION

The subject site is located in Section 5, Township 20 South, Range 37 East. The site is located approximately 1.5 miles south of Monument, New Mexico.

In November 1998, ARCADIS Geraghty & Miller, Inc. performed a preliminary soil investigation. The soil investigation consisted of 36 soil borings in the large tank bottom pit, the small tank bottom pit, the former tank pad, the location of the former oil/water separator, and the hardpan area west of the oil/water separator. In December 1998, five of the soil borings were converted into monitor wells.

Additional soil borings and monitor wells were placed to delineate the site in August 1999. Three monitor wells and three soil borings were added in December 2002 for further delineation in the saltwater evaporation pit.

The New Mexico Oil Conservation Division (NMOCD) gave permission to Marathon Oil Company (MOC) to discontinue sampling monitor well MW-10 as of March 6, 2003 due to potential impact from pipeline release up gradient of the site.

2.0 2008 GROUNDWATER MONITORING ACTIVITIES

Fifteen monitoring wells were gauged and sampled on April 11 and April 14, 2008, by BBC International, Inc. (BBC). The livestock well water was not sampled since it was dry. MW-1and MW-2 were the only monitor wells that had measurable free product hydrocarbons detected in 2008 at a thickness of 0.05 of a foot for MW-1 and a thickness of 0.01 of a foot for MW-2.

BBC followed standard sampling protocol. During the sampling event, the monitor wells were purged of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in polystyrene drums and disposed of by BBC utilizing the NMOCD-approved disposal facility near Eunice, NM operated by Sundance Services.

2.1 GROUNDWATER ELEVATIONS

The fifteen monitor wells were gauged from the top of the casing for depth to groundwater. A groundwater gradient map of the site can be found in Figure 1.

2.2 PURGING AND SAMPLING ACTIVITIES

In April 2008, fifteen monitor wells were measured from the top of the casing for depth to groundwater, depth to LNAPL, LNAPL thickness, and corrected groundwater elevations prior to sampling (Table 1). All purged fluids were drummed, transported, and disposed of at Sundance Services NMOCD approved disposal facility near Eunice, NM for recycling and disposal.

The groundwater samples were sent to SPL Laboratory in Houston, Texas to be analyzed for BTEX (USEPA Method 8260-B), Chloride, Total Dissolved Solids (TDS), and metals (Fe, Mn, Ba). The results are summarized in Table 2 and can be viewed in Figure 2. Laboratory analytical results, QA/QC, and chain-of-custody reports for the groundwater samples collected and analyzed are included in Appendix I.

The April 2008 sampling event showed detections of Benzene at concentrations of 0.006 mg/L and 0.009 mg/L, respectively, in monitor wells MW-4 and MW-5. The Benzene detections are below the New Mexico Water Quality Control Commission Standards of 0.01 mg/L. All of the monitor wells detected chloride levels in exceedance of the New Mexico Water Quality Control Commission Standard of 250 mg/L.

3.0 2007 REMEDIATION

In April of 2007, BBC conducted the soil remediation activities as approved by the NMOCD in February 2007. The details of the soil remediation were submitted to the NMOCD in a report by BBC dated May 2007 and titled *"Former Bertha Barber Tank Battery, 2007 Site Remediation Activities Report"*.

4.0 CONCLUSION

Marathon Oil Company proposes to close this site by discontinuing the ground water sampling and plugging and abandoning the monitoring wells according to NMOCD guidelines.

This request for closure is based on not only the history and longevity of this site, but the analysis of the historical groundwater data and due to the fact that the soil remediation has been completed; therefore, either eliminating the contaminant sources by soil excavation or by partial soil excavation and the installation of impermeable liners over the source areas which eliminate the potential for downward hydraulic activity that could influence contaminates to the ground water.

Upon review of the contaminate levels over time, the hydrocarbon detection levels have been decreasing indicating natural degradation and attenuation while the hydrocarbon plume has stayed consistent in size indicating very slow or no migration. In addition, the chloride impacts have experienced similar results.

This indicates natural attenuation is occurring and will continue to do so. Therefore, the need for continuing monitoring is diminished and not necessary since there are not any nearby ground water receptors and the likelihood of any receptors in the near future is small.

In conclusion, considering the above information, Marathon Oil Company feels there is justification in closing this site.

5.0 LIMITATIONS

BBC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

BBC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. BBC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. BBC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. BBC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Marathon Oil Company. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of BBC and/or Marathon.

Tables

Table 1: Historical Fluid Level Data
Table 2: Historical BTEX Analytical Data
April 2008

Former Bertha Barber

December 2008

Marathon Oil Company
Houston, Texas

Prepared by:
BBC International, Inc.

BBC INTERNATIONAL

BBC International, Inc.

World-Wide Environmental Specialists

Phone: (505) 397-6388 * **Fax**: (505) 397-0397 * 1324 W. Marland * PO Box 805 * Hobbs, NM 88241

Table 1.
Historical Fluid Level Data, December 1998 - April 2008

Marathon Oil Company, Former Bertha Barber Tank Battery, Lea County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-1	04/14/08	3561.57	31.73	31.68	0.04	3529.88
	04/14/07	3561.57	31.60	31.00	0.48	3530.45
	04/18/06	3561.57	32.90	32.42	0.38	3529.05
	03/03/05	3561.57	31.90	31.77	0.10	3529.77
	03/22/04	3561.57	39.23	38.22	0.81	3523.15
	12/22/03	3561.57	39.00	38.15	0.68	3523.25
	09/24/03	3561.57	38.08	38.03	0.04	3523.53
	06/16/03	3561.57	37.70	Sheen	0	3523.87
	03/05/03	3561.57	37.55	37.53	0.02	3524.04
	*12/18/2002	3561.57	37.62	37.60	0.02	3523.97
	09/25/02	3561.20	37.67	37.55	0.10	3523.63
	06/28/02	3561.20	37.38	37.37	0.01	3523.83
	03/22/02	3561.20	37.34	37.30	0.03	3523.89
	12/26/01	3561.20	37.33	37.19	0.11	3523.98
	09/27/01	3561.20	38.55	38.48	0.06	3522.71
	06/28/01	3561.20	38.15	38.14	0.01	3523.06
	03/19/01	3561.20	37.15	37.14	0.01	3524.06
	12/21/00	3561.20	37.14	37.13	0.01	3524.07
	09/27/00	3561.20	37.70	37.65	0.04	3523.54
	06/20/00	3561.20	37.77	37.70	0.06	3523.49
	03/30/00	3561.20	36.20	36.19	0.01	3525.01
	12/14/99	3561.20	36.03		0.03	3525.19
	09/22/99	3561.20	35.79		sheen	3525.41
	08/27/99	3561.20	35.66		0.02	3525.55
	07/16/99	3561.20	35.48		0.005	3525.72
	03/31/99	3561.20	35.82		0.05	3525.42
	12/30/98	3561.20	35.83		0	3525.37

New survey data

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

feet bmp=Ft below measuring point

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-2	04/14/08	3562.10	32.25	32.24	0.01	3529.86
	04/14/07	3562.10	31.52		0	3530.58
	04/18/06	3562.10	32.44		0	3529.66
	03/03/05	3562.10	35.05		0	3527.05
	03/22/04	3562.10	39.02		0	3523.08
	12/22/03	3562.10	38.58		0	3523.52
	09/24/03	3562.10	38.36		0	3523.74
	06/16/03	3562.10	38.19		0	3523.91
	03/05/03	3562.10	38.05		0	3524.05
	*12/18/2002	3562.10	38.15	38.14	0.01	3523.96
	09/25/02	3561.69	38.10	38.06	0.03	3523.62
	06/28/02	3561.69	37.85		0	3523.84
	03/22/02	3561.69	38.78		0	3522.91
	12/26/01	3561.69	37.70	37.69	0.01	3524.00
	09/27/01	3561.69	37.49	37.48	0.01	3524.21
	06/28/01	3561.69	37.16	37.15	0.01	3524.54
	03/19/01	3561.69	37.61	37.60	0.01	3524.09
	12/21/00	3561.69	37.60	37.59	0.01	3524.10
	09/27/00	3561.69	38.12	38.11	0.01	3523.58
	06/20/00	3561.69	38.12	38.10	0.02	3523.59
	03/30/00	3561.69	36.60	36.59	0.01	3525.10
	12/14/99	3561.69	36.62		0	3525.07
	09/22/99	3561.69	36.27		0	3525.42
	08/27/99	3561.69	36.13		0.01	3525.57
	07/16/99	3561.69	35.95		0	3525.74
	03/31/99	3561.69	36.33		0	3525.36
	12/30/98	3561.69	36.34		0	3525.35

***New survey data**
Water level elevations corrected for condensate using a SG of 0.80
**Water level elevations corrected for condensate using a SG of 0.75.
feet amsl=Ft above mean sea level
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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-3	04/11/08	3563.40	33.57		0	3529.83
	04/14/07	3563.40	32.88		0	3530.52
	04/18/06	3563.40	33.57		0	3529.83
	03/03/05	3563.40	33.60		0	3529.80
	03/22/04	3563.40	40.08		0	3523.32
	12/22/03	3563.40	40.07		0	3523.33
	09/24/03	3563.40	39.88		0	3523.52
	06/16/03	3563.40	39.53		0	3523.87
	03/05/03	3563.40	39.39		0	3524.01
	*12/18/2002	3563.40	39.49		0	3523.91
	09/25/02	3563.00	39.42	39.41	0.01	3523.59
	06/28/02	3563.00	39.19		0	3523.81
	03/22/02	3563.00	39.11		0	3523.89
	12/26/01	3563.00	39.05		0	3523.95
	09/27/01	3563.00	38.95		0	3524.05
	06/28/01	3563.00	38.63		0	3524.37
	03/19/01	3563.00	38.19		0	3524.81
	12/21/00	3563.00	38.11		0	3524.89
	09/27/00	3563.00	37.88		0	3525.12
	06/20/00	3563.00	38.56		0	3524.44
	03/30/00	3563.00	38.10		0	3524.90
	12/14/99	3563.00	38.10		0	3524.90
	09/22/99	3563.00	37.59		0	3525.41
	08/27/99	3563.00	37.48		0	3525.52
	07/16/99	3563.00	37.31		0	3525.69
	03/31/99	3563.00	37.67		0	3525.33
	12/30/98	3563.00	37.65		0	3525.35
MW-4	04/14/08	3563.43	33.56		0	3529.87
	04/14/07	3563.43	32.90		0	3530.53
	04/18/06	3563.43	34.32		0	3529.11
	03/03/05	3563.43	33.61		0	3529.82
	03/22/04	3563.43	40.09		0	3523.34
	12/22/03	3563.43	39.95		0	3523.48
	09/24/03	3563.43	39.73		0	3523.70
	06/16/03	3563.43	39.52		0	3523.91
	03/05/03	3563.43	39.39		0	3524.04
	*12/18/2002	3563.43	39.45		0	3523.98
	09/25/02	3563.01	38.65	38.61	0.03	3524.39
	06/28/02	3563.01	38.66	38.63	0.02	3524.37
	03/22/02	3563.01	39.11	39.10	0.01	3523.91
	12/26/01	3563.01	39.05	39.03	0.02	3523.98
	09/27/01	3563.01	38.92	38.82	0.08	3524.17
	06/28/01	3563.01	38.60		0	3524.41
	03/19/01	3563.01	38.16		0	3524.85
	12/21/00	3563.01	38.10		0	3524.91
	09/27/00	3563.01	37.86		0	3525.15
	06/20/00	3563.01	38.26		0	3524.75
	03/30/00	3563.01	38.10		0	3524.91
	12/14/99	3563.01	37.85		0	3525.16
	09/22/99	3563.01	37.57		0	3525.44
	08/27/99	3563.01	37.46		0	3525.55
	07/16/99	3563.01	37.28		0	3525.73
	03/31/99	3563.01	37.66		0	3525.35
	12/30/98	3563.01	37.66		0	3525.35

***New survey data**

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-5	04/14/08	3561.49	31.63		0	3529.86
	04/14/07	3561.49	32.20		0	3529.29
	04/18/06	3561.49	32.40		0	3529.09
	03/03/05	3561.49	32.73		0	3528.76
	03/22/04	3561.49	38.20		0	3523.29
	12/22/03	3561.49	38.12		0	3523.37
	09/24/03	3561.49	37.95		0	3523.54
	06/16/03	3561.49	37.60	Sheen	0	3523.89
	03/05/03	3561.49	37.46	Sheen	0	3524.03
	*12/18/2002	3561.49	37.56	37.54	0.02	3523.95
	09/25/02	3561.10	37.52	37.48	0.03	3523.61
	06/28/02	3561.10	37.31	37.29	0.02	3523.81
	03/22/02	3561.10	37.20		0	3523.90
	12/26/01	3561.10	37.21	37.10	0.09	3523.98
	09/27/01	3561.10	36.98	36.47	0.41	3524.53
	06/28/01	3561.10	36.69		0	3524.41
	03/19/01	3561.10	36.13		0	3524.97
	12/21/00	3561.10	36.15		0	3524.95
	09/27/00	3561.10	35.98		0	3525.12
	06/20/00	3561.10	36.34		0	3524.76
	03/30/00	3561.10	36.10		0	3525.00
	12/14/99	3561.10	35.95		0	3525.15
	09/22/99	3561.10	35.68		0	3525.42
	08/27/99	3561.10	35.56		0	3525.54
	07/16/99	3561.10	35.38		0	3525.72
	03/31/99	3561.10	35.75		0	3525.35
	12/30/98	3561.10	35.73		0	3525.37
MW-6	04/11/08	3561.65	32.78		0	3528.87
	04/14/07	3561.65	31.84		0	3529.81
	04/18/06	3561.65	32.39		0	3529.26
	03/03/05	3561.65	34.42		0	3527.23
	03/22/04	3561.65	38.30		0	3523.35
	12/22/03	3561.65	38.29		0	3523.36
	09/24/03	3561.65	38.10		0	3523.55
	06/16/03	3561.65	37.76		0	3523.89
	03/05/03	3561.65	37.61		0	3524.04
	*12/18/2002	3561.65	37.70		0	3523.95
	09/25/02	3561.25	37.63		0	3523.62
	06/28/02	3561.25	37.40		0	3523.85
	03/22/02	3561.25	37.32		0	3523.93
	12/26/01	3561.25	37.25		0	3524.00
	09/27/01	3561.25	37.02		0	3524.23
	06/28/01	3561.25	36.54		0	3524.71
	03/19/01	3561.25	36.80		0	3524.45
	12/21/00	3561.25	36.13		0	3525.12
	09/27/00	3561.25	36.06		0	3525.19
	06/20/00	3561.25	36.39		0	3524.86
	03/30/00	3561.25	36.29		0	3524.96
	12/14/99	3561.25	36.10		0	3525.15
	09/22/99	3561.25	35.75		0	3525.50
	08/27/99	3561.25	35.69		0	3525.56

***New survey data**

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-7	04/11/08	3562.70	32.91		0	3529.79
	04/14/07	3562.70	32.38		0	3530.32
	04/18/06	3562.70	33.69		0	3529.01
	03/04/05	3562.70	33.43		0	3529.27
	03/22/04	3562.70	39.78		0	3522.92
	12/22/03	3562.70	39.75		0	3522.95
	09/24/03	3562.70	39.60		0	3523.10
	06/16/03	3562.70	39.16		0	3523.54
	03/05/03	3562.70	38.97		0	3523.73
	*12/18/2002	3562.70	39.07		0	3523.63
	09/25/02	3562.44	39.01	38.99	0.02	3523.45
	06/28/02	3562.44	38.76		0	3523.68
	03/22/02	3562.44	38.65	38.64	0.01	3523.80
	12/26/01	3562.44	38.62	38.61	0.01	3523.83
	09/27/01	3562.44	38.43	38.42	0.01	3524.02
	06/28/01	3562.44	37.90	37.89	0.01	3524.55
	03/19/01	3562.44	37.58	37.57	0.01	3524.87
	12/21/00	3562.44	37.70	37.65	0.04	3524.79
	09/27/00	3562.44	37.76	37.75	0.01	3524.69
	06/20/00	3562.44	37.91	37.73	0.14	3524.67
	03/30/00	3562.44	37.60	37.55	0.04	3524.88
	12/14/99	3562.44	37.51		0	3524.93
	09/22/99	3562.44	38.20		0	3524.24
	08/27/99	3562.44	38.15		0	3524.29
MW-8	04/11/08	3561.82	31.98		0	3529.84
	04/14/07	3561.82	31.90		0	3529.92
	04/18/06	3561.82	33.74		0	3528.08
	04/22/05	3561.82	32.43		0	3529.39
	03/22/04	3561.82	38.96		0	3522.86
	12/22/03	3561.82	38.92		0	3522.90
	09/24/03	3561.82	38.71		0	3523.11
	06/16/03	3561.82	38.30		0	3523.52
	03/05/03	3561.82	38.10		0	3523.72
	*12/18/2002	3561.82	38.20		0	3523.62
	09/25/02	3561.39	38.15		0	3523.24
	06/28/02	3561.39	37.87		0	3523.52
	03/22/02	3561.39	37.80		0	3523.59
	12/26/01	3561.39	37.74		0	3523.65
	09/27/01	3561.39	37.51		0	3523.88
	06/28/01	3561.39	36.98		0	3524.41
	03/19/01	3561.39	36.51		0	3524.88
	12/21/00	3561.39	36.50		0	3524.89
	09/27/00	3561.39	36.61		0	3524.78
	06/20/00	3561.39	36.88		0	3524.51
	03/30/00	3561.39	36.65		0	3524.74
	12/14/99	3561.39	36.44		0	3524.95
	09/22/99	3561.39	37.26		0	3524.13
	08/27/99	3561.39	37.21		0	3524.18

***New survey data**
Water level elevations corrected for condensate using a SG of 0.80
**Water level elevations corrected for condensate using a SG of 0.75.
feet amsl=Ft above mean sea level
feet bmp=Ft below measuring point

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Table 1.
Historical Fluid Level Data, December 1998 - April 2008
Marathon Oil Company, Former Bertha Barber Tank Battery, Lea County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-9	04/11/08	3563.95	31.13		0	3532.82
	04/14/07	3563.95	31.15		0	3532.80
	04/18/06	3563.95	31.80		0	3532.15
	03/03/05	3563.95	31.80		0	3532.15
	03/22/04	3563.95	40.45		0	3523.50
	12/22/03	3563.95	40.84		0	3523.11
	09/24/03	3563.95	40.62		0	3523.33
	06/16/03	3563.95	40.22		0	3523.73
	03/05/03	3563.95	40.04		0	3523.91
	*12/18/2002	3563.95	40.15		0	3523.80
	09/25/02	3561.59	41.11	41.09	0.02	3520.50
	06/28/02	3561.59	39.87	39.85	0.02	3521.74
	03/22/02	3563.59	39.39	39.37	0.02	3524.22
	12/26/01	3563.59	39.82	39.65	0.14	3523.91
	09/27/01	3563.59	39.62	39.40	0.18	3524.15
	06/28/01	3563.59	38.99		0	3524.60
	03/19/01	3563.59	38.65		0	3524.94
	12/21/00	3563.59	38.60		0	3524.99
	09/27/00	3563.59	38.60		0	3524.99
	06/20/00	3563.59	38.89		0	3524.70
	03/30/00	3563.59	38.70		0	3524.89
	12/14/99	3563.59	38.48		0	3525.11
	09/22/99	3563.59	36.23		0	3527.36
	08/27/99	3563.59	36.14		0	3527.45
**MW-10	04/22/05	3560.88	31.22		0	3529.66
	12/22/03	3560.88				
	09/24/03	3560.88				
	06/16/03	3560.88				
	03/05/03	3560.88	36.83	36.82	0.01	3524.06
	*12/18/2002	3560.88	36.92	36.91	0.01	3523.97
	09/25/02	3560.51	36.84	36.82	0.02	3523.69
	06/28/02	3560.51	36.61	36.60	0.01	3523.91
	03/22/02	3560.51	36.55	36.53	0.01	3523.98
	12/26/01	3560.51	36.98	36.34	0.48	3524.01
	09/27/01	3560.51	36.75	36.12	0.47	3524.23
	06/28/01	3560.51	36.26	35.63	0.47	3524.72
	03/19/01	3560.51	35.52	35.48	0.03	3525.02
	12/21/00	3560.51	35.53	35.52	0.01	3524.99
	09/27/00	3560.51	35.56	35.55	0.01	3524.96
	06/20/00	3560.51	35.55	35.54	0.01	3524.97
	03/30/00	3560.51	35.50	35.49	0.01	3525.02
	12/14/99	3560.51	35.33		0	3525.18
	09/22/99	3560.51	34.96		0	3525.55
	08/27/99	3560.51	34.87		0	3525.64

New survey data
Water level elevations corrected for condensate using a SG of 0.80
**Water level elevations corrected for condensate using a SG of 0.75.
feet amsl=Ft above mean sea level
feet bmp=Ft below measuring point

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Table 1.
Historical Fluid Level Data, December 1998 - April 2008

Marathon Oil Company, Former Bertha Barber Tank Battery, Lea County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-11	04/11/08	3565.81	36.09		0	3529.72
	04/14/07	3565.81	35.55		0	3530.26
	04/18/06	3565.81	36.64		0	3529.17
	03/03/05	3565.81	36.68		0	3529.13
	03/22/04	3565.81	43.12		0	3522.69
	12/22/03	3565.81	43.08		0	3522.73
	09/24/03	3565.81	42.90		0	3522.91
	06/16/03	3565.81	42.47		0	3523.34
	03/05/03	3565.81	42.26		0	3523.55
	*12/18/2002	3565.81	42.34		0	3523.47
	09/25/02	3565.44	42.32		0	3523.12
	06/28/02	3565.44	42.04		0	3523.40
	03/22/02	3565.44	41.95		0	3523.49
	12/26/01	3565.44	41.91		0	3523.53
	09/27/01	3565.44	41.71		0	3523.73
	06/28/01	3565.44	41.16		0	3524.28
	03/19/01	3565.44	39.76		0	3525.68
	12/21/00	3565.44	40.01		0	3525.43
	09/27/00	3565.44	39.82		0	3525.62
	06/20/00	3565.44	40.10		0	3525.34
	03/30/00	3565.44	39.80		0	3525.64
	12/14/99	3565.44	40.61		0	3524.83
	09/22/99	3565.44	40.37		0	3525.07
	08/27/99	3565.44	40.34		0	3525.10
MW-12 (PZ-2)	04/11/08	3562.46	32.73		0	3529.73
	04/14/07	3562.46	32.90		0	3529.56
	04/18/06	3562.46	33.62		0	3528.84
	04/22/05	3562.46	33.23		0	3529.23
	03/22/04	3562.46	39.25		0	3523.21
	12/22/03	3562.46	39.22		0	3523.24
	09/24/03	3562.46	39.03		0	3523.43
	06/16/03	3562.46	38.68		0	3523.78
	03/05/03	3562.46	38.54		0	3523.92
	*12/18/2002	3562.46	38.62		0	3523.84
	09/25/02	3562.11	38.53		0	3523.58
	06/28/02	3562.11	38.30		0	3523.81
	03/22/02	3562.11	38.22		0	3523.89
	12/26/01	3562.11	37.15		0	3524.96
	09/27/01	3562.11	37.90		0	3524.21
	06/28/01	3562.11	37.45		0	3524.66
	03/19/01	3562.11	37.26		0	3524.85
	12/21/00	3562.11	37.23		0	3524.88
	09/27/00	3562.11	37.09		0	3525.02
	06/20/00	3562.11	37.34		0	3524.77
	03/30/00	3562.11	37.23		0	3524.88
	12/14/99	3562.11	36.95		0	3525.16
	09/22/99	3562.11	36.69		0	3525.42
	08/27/99	3562.11	36.65		0	3525.46

***New survey data**

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

feet bmp=Ft below measuring point

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Table 1.
Historical Fluid Level Data, December 1998 - April 2008

Marathon Oil Company, Former Bertha Barber Tank Battery, Lea County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-13 (PZ-1)	04/14/08	3560.05	30.20		0	3529.85
	04/14/07	3560.05	29.55		0	3530.50
	04/18/06	3560.05	44.03		0	3516.02
	03/03/05	3560.05	30.20		0	3529.85
	03/22/04	3560.05	36.78		0	3523.27
	12/22/03	3560.05	36.72		0	3523.33
	09/24/03	3560.05	36.51		0	3523.54
	06/16/03	3560.05	36.17		0	3523.88
	03/05/03	3560.05	36.03		0	3524.02
	*12/18/2002	3560.05	36.12		0	3523.93
	09/25/02	3559.67	36.05		0	3523.62
	06/28/02	3559.67	35.82		0	3523.85
	03/22/02	3559.67	35.76		0	3523.91
	12/26/01	3559.67	35.67		0	3524.00
	09/27/01	3559.67	35.52		0	3524.15
	06/28/01	3559.67	34.95		0	3524.72
	03/19/01	3559.67	34.84		0	3524.83
	12/21/00	3559.67	34.75		0	3524.92
	09/27/00	3559.67	34.49		0	3525.18
	06/20/00	3559.67	34.90		0	3524.77
	03/30/00	3559.67	34.80		0	3524.87
	12/14/99	3559.67	34.96		0	3524.71
	09/22/99	3559.67	34.20		0	3525.47
	08/27/99	3559.67	34.09		0	3525.58
MW-14	04/11/08	3562.15	32.29		0	3529.86
	04/14/07	3562.15	31.87		0	3530.28
	04/18/06	3562.15	33.08		0	3529.07
	03/03/05	3562.15	32.53		0	3529.62
	03/22/04	3562.15	39.25		0	3522.90
	12/22/03	3562.15	39.20		0	3522.95
	09/24/03	3562.15	39.00		0	3523.15
	06/16/03	3562.15	38.58		0	3523.57
	03/05/03	3562.15	38.38		0	3523.77
	*12/18/2002	3562.15	38.47		0	3523.68
MW-15	04/11/08	3562.19	32.39		0	3529.80
	04/14/07	3562.19	31.85		0	3530.34
	04/18/06	3562.19	33.20		0	3528.99
	03/03/05	3562.19	32.93		0	3529.26
	03/22/04	3562.19	39.43		0	3522.76
	12/22/03	3562.19	39.39		0	3522.80
	09/24/03	3562.19	39.19		0	3523.00
	06/16/03	3562.19	38.78		0	3523.41
	03/05/03	3562.19	38.55		0	3523.64
	*12/18/2002	3562.19	38.65		0	3523.54

***New survey data**

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

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Table 1.
Historical Fluid Level Data, December 1998 - April 2008

Marathon Oil Company, Former Bertha Barber Tank Battery, Lea County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Depth to Product (feet)	Product Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-16	04/11/08	3566.51	33.02		0	3533.49
	04/14/07	3566.51	36.79		0	3529.72
	04/18/06	3566.51	37.60		0	3528.91
	03/03/05	3566.51	37.40		0	3529.11
	03/22/04	3566.51	43.64		0	3522.87
	12/22/03	3566.51	43.58		0	3522.93
	09/24/03	3566.51	43.38		0	3523.13
	06/16/03	3566.51	42.99		0	3523.52
	03/05/03	3566.51	42.80		0	3523.71
	*12/18/2002	3566.51	42.87		0	3523.64

New survey data

Water level elevations corrected for condensate using a SG of 0.80

**Water level elevations corrected for condensate using a SG of 0.75.

feet amsl=Ft above mean sea level

feet bmp=Ft below measuring point

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-1	4/9/1999	**5**	<5	<5	NS	NS	<10		
	7/15/1999	<500	<500	<500	NS	NS	<1000		
	4/18/2006	ND	ND	ND			ND		
	3/14/2007								
	4/14/2008								
MW-2	4/9/1999	<5	<5	<5	NS	NS	<10		
	7/15/1999	<5	<5	<5	NS	NS	<10		
	9/23/1999	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	3/5/2003	<5	<5	<5			<5		
(Duplicate)	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<1	<1	<1			<1		
(Duplicate)	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			1.2		
(Duplicate)	3/22/2004	<1	<1	<1			1		
	3/4/2005	<1	<1	<1	<1	<1		1.37	
	4/18/2006	ND	ND	ND			ND		
	3/14/2007	ND	ND	ND	ND	ND	ND	ND	374
	4/14/2008								
MW-3	4/9/1999	**100**	**14**	<5	NS	NS	<10		
	7/15/1999	<5	<5	<5	NS	NS	<10		
	9/23/1999	<5	<5	<5	NS	NS	<10		
	3/30/2000	<5	<5	**11**	<5	<10	ND		
(Duplicate)**	3/30/2000	**54**	**8.6**	<5	<5	<10	ND		
	6/20/2000	<5	<5	<5	<5	<10	<10		
	9/28/2000	<5	<5.0	<5	<5	<10	<10		
	12/21/2000	<5	<5	<5	NS	NS	**10**		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<5	<5	<5	NS	NS	<5		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	0.0111	ND	ND	ND	ND	ND	0.0112	426
	4/11/2008	ND	ND	ND	ND	ND	ND		358

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-4	4/9/1999	**121**	**77**	**43**	NS	NS	**60**		
	7/15/1999	**43**	**28**	<5	NS	NS	<10		
	9/23/1999	**18**	**12**	<5	NS	NS	<10		
	3/30/2000	**54**	**7.5**	**8.7**	<5	<10	ND		
	6/20/2000	**19**	<5.0	<5	<5	<10	<10		
	9/28/2000	**66**	**13**	<5	<5	<10	<10		
(Duplicate)	9/28/2000	**51**	<5.0	<5	<5	<10	11		
	12/21/2000	**46**	**10**	<5	NS	NS	20		
	3/19/2001	**37**	<5	**5.2**	<5	<10	<10		
	6/28/2001	**14**	<5	<5	NS	NS	<10		
	3/5/2003	**5**	<5	<5			<5		
	6/16/2003		<5	<5			<5		
	9/24/2003	**5**	<5	<5			<5		
	12/22/2003	**1**	<1	<1			<1		
	3/22/2004	<1	<1	<1			3.7		
	3/4/2005	**15.2**	**1.71**	<1	<1	<1		3.69	
	4/18/2006	**28**	**5.75**	ND			ND		
	3/14/2007	ND	**0.00082**	ND	ND	ND	ND	ND	376
	4/14/2008	**6**	ND	ND	ND	ND	ND		307
MW-5	4/9/1999	**53**	<5	<5	NS	NS	<10		
	7/15/1999	**470**	**43**	<5	NS	NS	10		
	9/22/1999	**156**	**6**	<5	NS	NS	<10		
	3/30/2000	**50**	<5	**9.7**	<5	<10	ND		
	6/20/2000	**140**	<5	<5	<5	<10	<10		
	9/28/2000	**110**	<5	<5	<5	<10	<10		
	12/21/2000	**169**	**5**	<5	NS	NS	**20**		
	3/19/2001	**32**	<5	<5	<5	<10	<10		
	6/28/2001	**96**	<5	<5	NS	NS	<10		
	9/24/2003	**71**	<5	<5			<5		
	12/22/2003	**17.9**	<5	<5			<5		
(Duplicate)	12/22/2003	**19.8**	<5	<5			<5		
	3/22/2004	**11.5**	<10	<10			22.2		
	3/4/2005	**25.5**	**6.78**	<1	<1	<1		1.52	
	4/18/2006	**5.11**	ND	ND			ND		
	3/14/2007	ND	ND	ND	ND	ND	ND	ND	415
	4/14/2008	**9**	ND	ND	ND	ND	ND		343

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-6	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/22/1999	<5	<5	<5	NS	NS	<10		
	3/30/2000	<5	<5	<5	<5	<10	ND		
	6/20/2000	<5	<5	<5	<5	<10	<10		
	9/28/2000	**11**	<5	<5	<5	<10	<10		
	12/21/2000	**14**	<5	<5	NS	NS	**10**		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
Duplicate	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
Duplicate	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<1	<1	<1	NS	NS	<1		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	787
	4/11/2008	ND	ND	ND	ND	ND	ND		437
MW-7	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/22/1999	<5	<5	<5	NS	NS	<10		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/4/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007								665
	4/11/2008	ND	ND	ND	ND	ND	ND		599

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-8	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/23/1999	<5	<5	<5	NS	NS	<10		
	3/30/2000	<5	<5	**11**	<5	<10	ND		
	6/20/2000	<5	<5	<5	<5	<10	<10		
	9/28/2000	<5	<5	<5	<5	<10	<10		
	12/21/2000	<5	<5	<5	NS	NS	<10		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<5	<5	<5	NS	NS	<5		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<5	<5	<5			<5		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	4/22/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/14/2007	0.00634	ND	ND	ND	ND	ND	0.00789	295
	4/11/2008	ND	ND	ND	ND	ND	ND		415
MW-9	8/17/1999	**20**	<5	<5	NS	NS	<10		
	9/23/1999	**8**	<5	<5	NS	NS	<10		
	3/30/2000	<5	<5	9.3	<5	<5	ND		
	6/20/00*	<5	<5	<5	<5	<10	<10		
	9/28/00*	<5	<5	<5	<5	<10	<10		
	12/21/00*	<5	<5	<5	NS	NS	<10		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	**28**	<5	NS	NS	<10		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<5	<5	<5			<5		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<5	<5	<5			<5		
	3/22/2004	<5	<5	<5			<5		
	3/3/2005	<1	<1	<1	<2	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	633
	4/11/2008	ND	ND	ND	ND	ND	ND		372
MW-10	8/17/1999	**12100**	**160**	**1730**	NS	NS	400		
	9/22/1999	**2900**	**520**	**800**	NS	NS	600		

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-11	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/23/1999	<5	<5	<5	<5	<10	<10		
	3/30/2000	<5	<5	<5	<5	<10	ND		
	6/20/2000	<5	<5	<5	<5	<10	<10		
(Duplicate)	6/20/2000	<5	<5	<5	<5	<10	<10		
	9/28/2000	<5	<5	<5	<5	<10	<10		
	12/21/2000	<5	<5	<5	NS	NS	**20**		
	3/19/2001	<5	<5	<5	<5	<10	<10		
(Duplicate)	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<5	<5	<5	NS	NS	<5		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003								
	9/24/2003								
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	292
	4/11/2008	ND	ND	ND	ND	ND	ND		270
MW-12 (PZ-2)	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/22/1999	<5	<5	<5	NS	NS	<10		
	3/30/2000	<5	<5	<5	<5	<10	ND		
	6/20/2000	**7.3**	<5	<5	<5	<10	<10		
	9/28/2000	<5	<5	<5	<5	<10	<10		
	12/21/2000	<5	<5	<5	NS	NS	**20**		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001^	NS	NS	NS	NS	NS	NS		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<1	<1	<1	NS	NS	<1		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	4/22/2005	<1	<1	<1			<1	<1	
	4/18/2006	ND	ND	ND			ND		
	3/14/2007	ND	ND	ND	ND	ND	ND	ND	289
	4/11/2008	ND	ND	ND	ND	ND	ND		431

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
MW-13 (PZ-1)	8/17/1999	<5	<5	<5	NS	NS	<10		
	9/23/1999	<5	<5	<5	NS	NS	<10		
	3/30/2000	<5	**5**	<5	<5	<10	ND		
	6/20/2000	<5	<5	<5	<5	<10	<10		
	9/28/2000	<5	<5	<5	<5	<10	<10		
	12/21/2000	<5	<5	<5	NS	NS	<10		
	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<200	<200	<200	NS	NS	<200		
	9/25/2002	<1	<1	<1	NS	NS	<1		
(Duplicate)	9/25/2002	<1	<1	<1	NS	NS	<1		
	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
(Duplicate)	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/14/2007	ND	ND	ND	ND	ND	ND	ND	397
	4/14/2008	ND	ND	ND	ND	ND	ND		365
MW-14	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	836
	4/11/2008	ND	ND	ND	ND	ND	ND		287
MW-15	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	258
	4/11/2008	ND	ND	ND	ND	ND	ND		269
MW-16	12/18/2002	<1	<1	<1	NS	NS	<1		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<5	<5	<5			<5		
	3/22/2004	<5	<5	<5			<5		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006	ND	ND	ND			ND		
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	623
	4/11/2008	ND	ND	ND	ND	ND	ND		779

Table 2. Historical BTEX Analytical Data
Former Bertha Barber Tank Battery, Lea County, New Mexico

WELL ID	Sample Date	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	o-Xylene (ug/L)	m&p-Xylenes (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	Chloride (mg/L)
WQCC	-----	**10**	**750**	**750**	-----	-----	**620**	**30**	**250**
Livestock WW	3/19/2001	<5	<5	<5	<5	<10	<10		
	6/28/2001	<5	<5	<5	NS	NS	<10		
	9/27/2001	<5	<5	<5	NS	NS	<10		
	12/26/2001	<5	<5	<5	NS	NS	<10		
	3/22/2002	<5	<5	<5	NS	NS	<10		
	6/28/2002	<5	<5	<5	NS	NS	<5		
	9/25/2002	<1	<1	<1	NS	NS	<1		
	12/18/2002	<5	<5	<5	NS	NS	<5		
	3/5/2003	<5	<5	<5			<5		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		
	3/22/2004	<1	<1	<1			<1		
	3/3/2005	<1	<1	<1	<1	<1		<1	
	4/18/2006								
	3/13/2007	ND	ND	ND	ND	ND	ND	ND	1540
	4/11/2008	Dry							
Rinsate	3/5/2003	<1	<1	<1			<1		
	6/16/2003	<1	<1	<1			<1		
	9/24/2003	<5	<5	<5			<5		
	12/22/2003	<1	<1	<1			<1		

Footnotes:

WQCC - New Mexico Water Quality Control Commission Ground Water Standards.
BTEX - Benzene, Toluene, Ethylbenzene and Total Xylenes.
ug/L - micrograms per liter.
NS - Constituent not speciated.
ND - Constituent was not detected during laboratory testing, and laboratory reporting limits are variable.
* - Data was originally labeled as MW-7, but is actually MW-9.
MW-7 was not sampled in 2000 due to the presence of phase separate hydrocarbon (PSH).
** - Question data because it appears to be more representative of the sample for MW-4 for the same event.
^ - Sample containers were all broken.

FIGURES

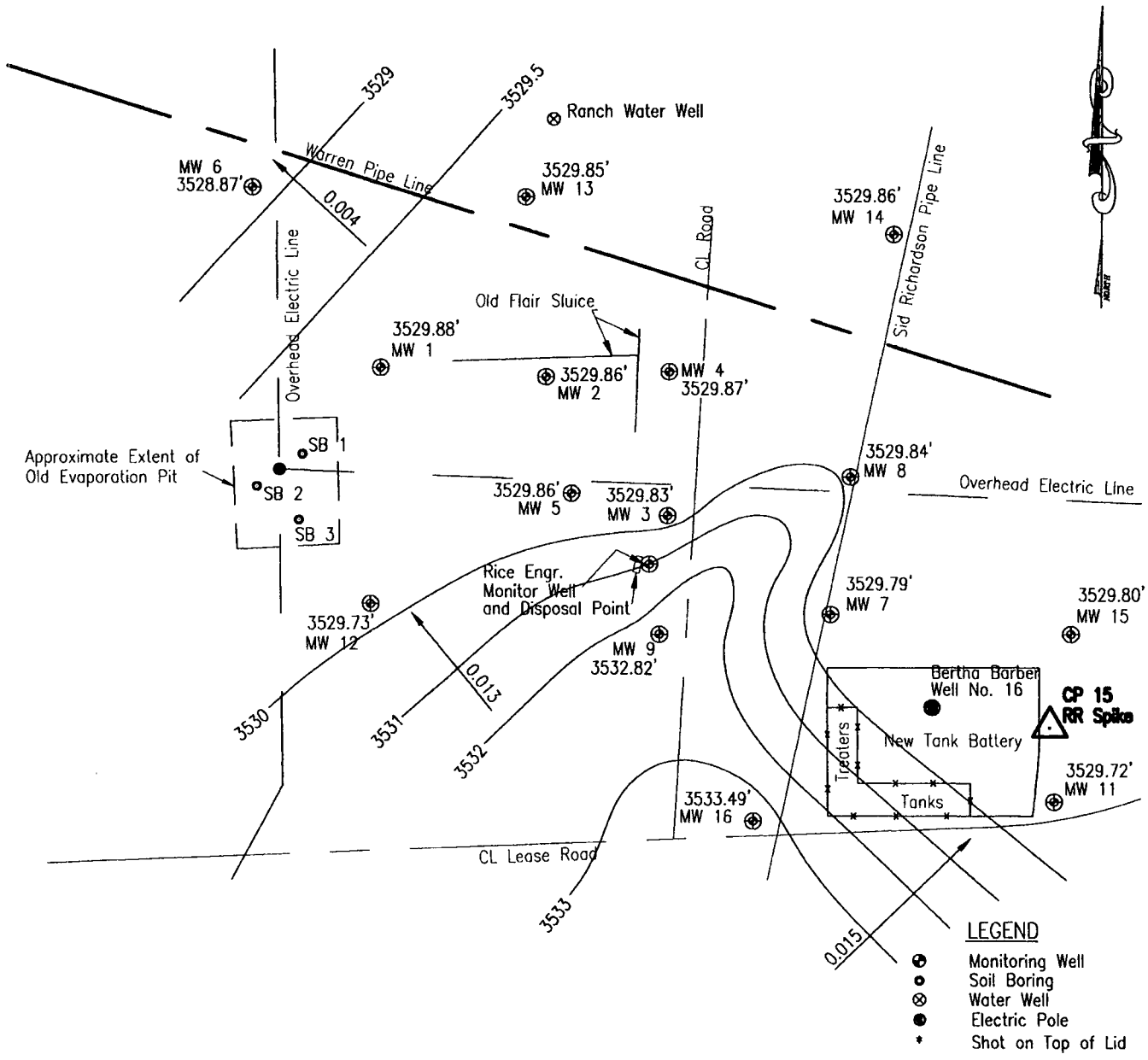
Figure 1: Groundwater Gradient Map
Figure 2: BTEX Concentration Map
April 2008

Former Bertha Barber

December 2008

Marathon Oil Company
Houston, Texas

Prepared by:
BBC International, Inc.



Monitor well numbering was taken from plat map "MT749102.dwg" dated 7-07-2002 furnished by Marathon Oil Co. and may not reflect markings found on site.

NOTE: BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

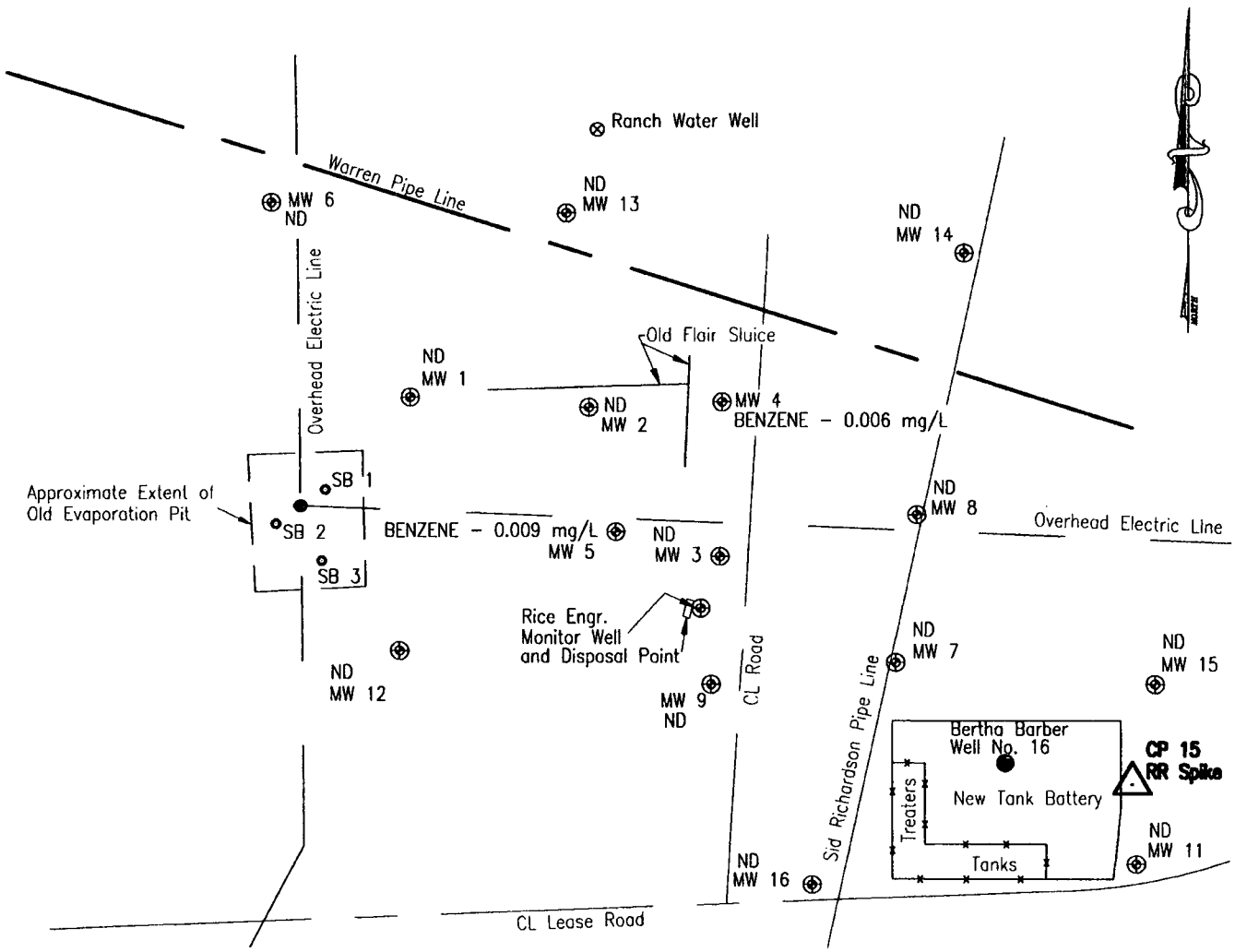
PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

BBC INTERNATIONAL

GRADIENT FIGURE 1

MONITORING WELLS AND SOIL BORING LOCATIONS IN FORMER BERTHA BARBER TANK BATTERY SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

Survey Date: 12/16/2002	Sheet 1 of 1 Sheets	
W.O. Number: 08.13.0722	Drawn By: L.A.	
Date: 5/5/08	REL. W.O.: 06131104	08130722



LEGEND

- Monitoring Well
- Soil Boring
- Water Well
- Electric Pole
- * Shot on Top of Lid

200 0 200 400 FEET

Scale:1"=200'

Monitor well numbering was taken from plat map "MT749102.dwg" dated 7-07-2002 furnished by Marathon Oil Co. and may not reflect markings found on site.

NOTE: BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

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BTEX FIGURE 2

MONITORING WELLS AND SOIL BORING LOCATIONS IN FORMER BERTHA BARBER TANK BATTERY
SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

Survey Date: 12/16/2002	Sheet 1 of 1 Sheets		
W.O. Number: 08.13.0722	Drawn By: L.A.		
Date: 5/7/08	REL. W.O.: 06131104	08130722	

APPENDIX

SPL
Laboratory Results
April 2008

Former Bertha Barber

December 2008

Marathon Oil Company
Houston, Texas

Prepared by:
BBC International, Inc.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Marathon Petroleum Company, LLC

Certificate of Analysis Number:

08040865

Report To:		Project Name:	Marathon - Bertha Barber
BBC International		Site:	Monument, NM
Cliff P. Brunson		Site Address:	
1324 West Marland			
Hobbs		PO Number:	
NM		State:	New Mexico
88240-		State Cert. No.:	
ph: (505) 397-6388	fax:	Date Reported:	4/25/2008

This Report Contains A Total Of 28 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

4/27/2008

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:

Marathon Petroleum Company, LLC

Certificate of Analysis Number:

08040865

Report To:		Project Name:	Marathon - Bertha Barber
BBC International		Site:	Monument, NM
Cliff P. Brunson		Site Address:	
1324 West Marland			
Hobbs		PO Number:	
NM		State:	New Mexico
88240-		State Cert. No.:	
ph: (505) 397-6388	fax:	Date Reported:	4/25/2008

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Joann Marroquin

Joann Marroquin
Senior Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Marathon Petroleum Company, LLC

Certificate of Analysis Number:

08040865

Report To: BBC International
Cliff P. Brunson
1324 West Marland

Hobbs
NM
88240-
ph: (505) 397-6388 fax: (505) 397-0397

Fax To:

Project Name: Marathon - Bertha Barber
Site: Monument, NM
Site Address:

PO Number:
State: New Mexico
State Cert. No.:
Date Reported: 4/25/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW 11	08040865-01	Water	4/11/2008 10:15:00 AM	4/15/2008 10:00:00 AM	278161	☐
MW 15	08040865-02	Water	4/11/2008 11:10:00 AM	4/15/2008 10:00:00 AM	278161	☐
MW 14	08040865-03	Water	4/11/2008 1:58:00 PM	4/15/2008 10:00:00 AM	278161	☐
MW 6	08040865-04	Water	4/11/2008 2:35:00 PM	4/15/2008 10:00:00 AM	278152	☐
MW 9	08040865-05	Water	4/11/2008 3:15:00 PM	4/15/2008 10:00:00 AM	278152	☐
MW 3	08040865-06	Water	4/11/2008 4:02:00 PM	4/15/2008 10:00:00 AM	278152	☐
MW 16	08040865-07	Water	4/11/2008 4:35:00 PM	4/15/2008 10:00:00 AM	278153	☐
MW 7	08040865-08	Water	4/11/2008 5:05:00 PM	4/15/2008 10:00:00 AM	278153	☐
MW 8	08040865-09	Water	4/11/2008 5:36:00 PM	4/15/2008 10:00:00 AM	278153	☐
MW 12	08040865-10	Water	4/11/2008 6:03:00 PM	4/15/2008 10:00:00 AM	278154	☐
MW 13	08040865-11	Water	4/14/2008 9:22:00 AM	4/15/2008 10:00:00 AM	278154	☐
MW 4	08040865-12	Water	4/14/2008 10:30:00 AM	4/15/2008 10:00:00 AM	278154	☐
MW 5	08040865-13	Water	4/14/2008 11:33:00 AM	4/15/2008 10:00:00 AM	278154	☐

Joann Marroquin
Senior Project Manager

4/27/2008
Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW 11 **Collected:** 04/11/2008 10:15 **SPL Sample ID:** 08040865-01

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	270		5	5	04/21/08 11:15	A_E	4389427
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.0622		0.02	1	04/18/08 21:55	EG	4386452

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.113		0.005	1	04/17/08 20:04	AL_H	4384900
Manganese	0.0705		0.005	1	04/17/08 20:04	AL_H	4384900

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1110		10	1	04/16/08 16:30	KRD	4384351
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 16:23	E_G	4386255
Ethylbenzene	ND		5	1	04/18/08 16:23	E_G	4386255
Toluene	ND		5	1	04/18/08 16:23	E_G	4386255
m,p-Xylene	ND		5	1	04/18/08 16:23	E_G	4386255
o-Xylene	ND		5	1	04/18/08 16:23	E_G	4386255
Xylenes,Total	ND		5	1	04/18/08 16:23	E_G	4386255
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 16:23	E_G	4386255
Surr: 4-Bromofluorobenzene	96.0	%	70-130	1	04/18/08 16:23	E_G	4386255
Surr: Toluene-d8	98.0	%	74-122	1	04/18/08 16:23	E_G	4386255

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 15 **Collected:** 04/11/2008 11:10 **SPL Sample ID:** 08040865-02

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL			**MCL**	**E325.2**	**Units: mg/L**		
Chloride	269		5	5	04/21/08 11:15	A_E	4389430
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**	**Units: mg/L**		
Iron	0.116		0.02	1	04/18/08 22:30	EG	4386460

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL			**MCL**	**SW6020A**	**Units: mg/L**		
Barium	0.223		0.005	1	04/17/08 20:44	AL_H	4384906
Manganese	0.0616		0.005	1	04/17/08 20:44	AL_H	4384906

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1100		10	1	04/16/08 16:30	KRD	4384352
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	04/18/08 16:47	E_G	4386256
Ethylbenzene	ND		5	1	04/18/08 16:47	E_G	4386256
Toluene	ND		5	1	04/18/08 16:47	E_G	4386256
m,p-Xylene	ND		5	1	04/18/08 16:47	E_G	4386256
o-Xylene	ND		5	1	04/18/08 16:47	E_G	4386256
Xylenes,Total	ND		5	1	04/18/08 16:47	E_G	4386256
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 16:47	E_G	4386256
Surr: 4-Bromofluorobenzene	94.0	%	70-130	1	04/18/08 16:47	E_G	4386256
Surr: Toluene-d8	98.0	%	74-122	1	04/18/08 16:47	E_G	4386256

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 14 **Collected:** 04/11/2008 13:58 **SPL Sample ID:** 08040865-03

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	287		5	5	04/21/08 11:15	A_E	4389431
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.129		0.02	1	04/18/08 22:34	EG	4386461

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.202		0.005	1	04/17/08 20:50	AL_H	4384907
Manganese	0.0299		0.005	1	04/17/08 20:50	AL_H	4384907

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1210		10	1	04/16/08 16:30	KRD	4384353
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 18:25	E_G	4386259
Ethylbenzene	ND		5	1	04/18/08 18:25	E_G	4386259
Toluene	ND		5	1	04/18/08 18:25	E_G	4386259
m,p-Xylene	ND		5	1	04/18/08 18:25	E_G	4386259
o-Xylene	ND		5	1	04/18/08 18:25	E_G	4386259
Xylenes,Total	ND		5	1	04/18/08 18:25	E_G	4386259
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 18:25	E_G	4386259
Surr: 4-Bromofluorobenzene	96.0	%	70-130	1	04/18/08 18:25	E_G	4386259
Surr: Toluene-d8	98.0	%	74-122	1	04/18/08 18:25	E_G	4386259

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 6 **Collected:** 04/11/2008 14:35 **SPL Sample ID:** 08040865-04

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	437		20	20	04/21/08 11:24	A_E	4389432
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.167		0.02	1	04/18/08 22:39	EG	4386462

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				MCL	SW6020A	Units: mg/L	
Barium	0.113		0.005	1	04/19/08 3:57	AL_H	4387162
Manganese	0.0391		0.005	1	04/17/08 21:10	AL_H	4384910

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	1670		100	10	04/16/08 16:30	KRD	4384354
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 17:36	E_G	4386257
Ethylbenzene	ND		5	1	04/18/08 17:36	E_G	4386257
Toluene	ND		5	1	04/18/08 17:36	E_G	4386257
m,p-Xylene	ND		5	1	04/18/08 17:36	E_G	4386257
o-Xylene	ND		5	1	04/18/08 17:36	E_G	4386257
Xylenes,Total	ND		5	1	04/18/08 17:36	E_G	4386257
Surr: 1,2-Dichloroethane-d4	100		% 62-130	1	04/18/08 17:36	E_G	4386257
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 17:36	E_G	4386257
Surr: Toluene-d8	98.0		% 74-122	1	04/18/08 17:36	E_G	4386257

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 9 **Collected:** 04/11/2008 15:15 **SPL Sample ID:** 08040865-05

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL			**MCL**	**E325.2**	**Units: mg/L**		
Chloride	372		20	20	04/21/08 11:24	A_E	4389433
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**	**Units: mg/L**		
Iron	0.0382		0.02	1	04/18/08 22:43	EG	4386463

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL			**MCL**	**SW6020A**	**Units: mg/L**		
Barium	5.45		0.005	1	04/17/08 21:17	AL_H	4384911
Manganese	0.0267		0.005	1	04/17/08 21:17	AL_H	4384911

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1480		100	10	04/16/08 16:30	KRD	4384355
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	04/18/08 18:01	E_G	4386258
Ethylbenzene	ND		5	1	04/18/08 18:01	E_G	4386258
Toluene	ND		5	1	04/18/08 18:01	E_G	4386258
m,p-Xylene	ND		5	1	04/18/08 18:01	E_G	4386258
o-Xylene	ND		5	1	04/18/08 18:01	E_G	4386258
Xylenes,Total	ND		5	1	04/18/08 18:01	E_G	4386258
Surr: 1,2-Dichloroethane-d4	98.0		% 62-130	1	04/18/08 18:01	E_G	4386258
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 18:01	E_G	4386258
Surr: Toluene-d8	96.0		% 74-122	1	04/18/08 18:01	E_G	4386258

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 3 **Collected:** 04/11/2008 16:02 **SPL Sample ID:** 08040865-06

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	358		20	20	04/21/08 11:24	A_E	4389434
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.112		0.02	1	04/18/08 22:47	EG	4386464

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	4.73		0.005	1	04/17/08 21:24	AL_H	4384912
Manganese	0.0264		0.005	1	04/17/08 21:24	AL_H	4384912

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1210		10	1	04/16/08 16:30	KRD	4384356
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 18:50	E_G	4386260
Ethylbenzene	ND		5	1	04/18/08 18:50	E_G	4386260
Toluene	ND		5	1	04/18/08 18:50	E_G	4386260
m,p-Xylene	ND		5	1	04/18/08 18:50	E_G	4386260
o-Xylene	ND		5	1	04/18/08 18:50	E_G	4386260
Xylenes,Total	ND		5	1	04/18/08 18:50	E_G	4386260
Surr: 1,2-Dichloroethane-d4	98.0		% 62-130	1	04/18/08 18:50	E_G	4386260
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 18:50	E_G	4386260
Surr: Toluene-d8	98.0		% 74-122	1	04/18/08 18:50	E_G	4386260

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 16 **Collected:** 04/11/2008 16:35 **SPL Sample ID:** 08040865-07

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	779		20	20	04/21/08 11:24	A_E	4389435
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.699		0.02	1	04/18/08 22:52	EG	4386465

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	7.4		0.005	1	04/17/08 21:30	AL_H	4384913
Manganese	0.0622		0.005	1	04/17/08 21:30	AL_H	4384913

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	2000		20	2	04/17/08 17:00	KRD	4385290
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 19:15	E_G	4386261
Ethylbenzene	ND		5	1	04/18/08 19:15	E_G	4386261
Toluene	ND		5	1	04/18/08 19:15	E_G	4386261
m,p-Xylene	ND		5	1	04/18/08 19:15	E_G	4386261
o-Xylene	ND		5	1	04/18/08 19:15	E_G	4386261
Xylenes,Total	ND		5	1	04/18/08 19:15	E_G	4386261
Surr: 1,2-Dichloroethane-d4	100		% 62-130	1	04/18/08 19:15	E_G	4386261
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 19:15	E_G	4386261
Surr: Toluene-d8	96.0		% 74-122	1	04/18/08 19:15	E_G	4386261

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 7 **Collected:** 04/11/2008 17:05 **SPL Sample ID:** 08040865-08

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL			**MCL**	**E325.2**	**Units: mg/L**		
Chloride	599		20	20	04/21/08 11:24	A_E	4389436
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**	**Units: mg/L**		
Iron	2.91		0.02	1	04/18/08 22:56	EG	4386466

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL			**MCL**	**SW6020A**	**Units: mg/L**		
Barium	0.189		0.005	1	04/19/08 4:03	AL_H	4387163
Manganese	0.106		0.005	1	04/17/08 21:37	AL_H	4384914

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1980		20	2	04/17/08 17:00	KRD	4385292
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	04/18/08 19:39	E_G	4386262
Ethylbenzene	ND		5	1	04/18/08 19:39	E_G	4386262
Toluene	ND		5	1	04/18/08 19:39	E_G	4386262
m,p-Xylene	ND		5	1	04/18/08 19:39	E_G	4386262
o-Xylene	ND		5	1	04/18/08 19:39	E_G	4386262
Xylenes,Total	ND		5	1	04/18/08 19:39	E_G	4386262
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 19:39	E_G	4386262
Surr: 4-Bromofluorobenzene	96.0	%	70-130	1	04/18/08 19:39	E_G	4386262
Surr: Toluene-d8	98.0	%	74-122	1	04/18/08 19:39	E_G	4386262

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: MW 8 **Collected:** 04/11/2008 17:36 **SPL Sample ID:** 08040865-09

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	415		20	20	04/21/08 12:03	A_E	4389439
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.221		0.02	1	04/18/08 23:01	EG	4386467

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.16		0.005	1	04/19/08 4:10	AL_H	4387164
Manganese	0.044		0.005	1	04/17/08 21:43	AL_H	4384915

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1490		10	1	04/16/08 16:30	KRD	4384358
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		5	1	04/18/08 20:04	E_G	4386263
Ethylbenzene	ND		5	1	04/18/08 20:04	E_G	4386263
Toluene	ND		5	1	04/18/08 20:04	E_G	4386263
m,p-Xylene	ND		5	1	04/18/08 20:04	E_G	4386263
o-Xylene	ND		5	1	04/18/08 20:04	E_G	4386263
Xylenes,Total	ND		5	1	04/18/08 20:04	E_G	4386263
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 20:04	E_G	4386263
Surr: 4-Bromofluorobenzene	96.0	%	70-130	1	04/18/08 20:04	E_G	4386263
Surr: Toluene-d8	96.0	%	74-122	1	04/18/08 20:04	E_G	4386263

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW 12 **Collected:** 04/11/2008 18:03 **SPL Sample ID:** 08040865-10

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL			**MCL**	**E325.2**	**Units: mg/L**		
Chloride	431		20	20	04/21/08 12:03	A_E	4389440
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**	**Units: mg/L**		
Iron	0.758		0.02	1	04/18/08 23:14	EG	4386470

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL			**MCL**	**SW6020A**	**Units: mg/L**		
Barium	0.304		0.005	1	04/19/08 4:16	AL_H	4387165
Manganese	0.059		0.005	1	04/17/08 21:50	AL_H	4384916

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1410		10	1	04/16/08 16:30	KRD	4384359
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	04/18/08 20:29	E_G	4386264
Ethylbenzene	ND		5	1	04/18/08 20:29	E_G	4386264
Toluene	ND		5	1	04/18/08 20:29	E_G	4386264
m,p-Xylene	ND		5	1	04/18/08 20:29	E_G	4386264
o-Xylene	ND		5	1	04/18/08 20:29	E_G	4386264
Xylenes,Total	ND		5	1	04/18/08 20:29	E_G	4386264
Surr: 1,2-Dichloroethane-d4	100	%	62-130	1	04/18/08 20:29	E_G	4386264
Surr: 4-Bromofluorobenzene	96.0	%	70-130	1	04/18/08 20:29	E_G	4386264
Surr: Toluene-d8	96.0	%	74-122	1	04/18/08 20:29	E_G	4386264

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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Client Sample ID: MW 13 **Collected:** 04/14/2008 9:22 **SPL Sample ID:** 08040865-11

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL			**MCL**	**E325.2**	**Units: mg/L**		
Chloride	365		20	20	04/21/08 12:03	A_E	4389441
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**	**Units: mg/L**		
Iron	0.136		0.02	1	04/18/08 23:18	EG	4386471

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL			**MCL**	**SW6020A**	**Units: mg/L**		
Barium	0.726		0.005	1	04/19/08 4:23	AL_H	4387166
Manganese	0.0425		0.005	1	04/17/08 21:57	AL_H	4384917

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1250		10	1	04/16/08 16:30	KRD	4384360
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	04/18/08 20:53	E_G	4386265
Ethylbenzene	ND		5	1	04/18/08 20:53	E_G	4386265
Toluene	ND		5	1	04/18/08 20:53	E_G	4386265
m,p-Xylene	ND		5	1	04/18/08 20:53	E_G	4386265
o-Xylene	ND		5	1	04/18/08 20:53	E_G	4386265
Xylenes,Total	ND		5	1	04/18/08 20:53	E_G	4386265
Surr: 1,2-Dichloroethane-d4	100		% 62-130	1	04/18/08 20:53	E_G	4386265
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 20:53	E_G	4386265
Surr: Toluene-d8	96.0		% 74-122	1	04/18/08 20:53	E_G	4386265

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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Client Sample ID: MW 4 **Collected:** 04/14/2008 10:30 **SPL Sample ID:** 08040865-12

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**		**E325.2**	**Units: mg/L**	
Chloride	307		20		20	04/21/08 12:04	A_E	4389445
METALS BY METHOD 6010B, TOTAL				**MCL**		**SW6010B**	**Units: mg/L**	
Iron	0.0781		0.02		1	04/18/08 23:23	EG	4386472

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**		**SW6020A**	**Units: mg/L**	
Barium	22.4		0.005		1	04/17/08 22:03	AL_H	4384918
Manganese	0.0205		0.005		1	04/17/08 22:03	AL_H	4384918

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**		**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1170		10		1	04/16/08 16:30	KRD	4384362
VOLATILE ORGANICS BY METHOD 8260B				**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	6		5		1	04/18/08 21:18	E_G	4386266
Ethylbenzene	ND		5		1	04/18/08 21:18	E_G	4386266
Toluene	ND		5		1	04/18/08 21:18	E_G	4386266
m,p-Xylene	ND		5		1	04/18/08 21:18	E_G	4386266
o-Xylene	ND		5		1	04/18/08 21:18	E_G	4386266
Xylenes,Total	ND		5		1	04/18/08 21:18	E_G	4386266
Surr: 1,2-Dichloroethane-d4	100	%	62-130		1	04/18/08 21:18	E_G	4386266
Surr: 4-Bromofluorobenzene	98.0	%	70-130		1	04/18/08 21:18	E_G	4386266
Surr: Toluene-d8	96.0	%	74-122		1	04/18/08 21:18	E_G	4386266

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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Client Sample ID: MW 5 **Collected:** 04/14/2008 11:33 **SPL Sample ID:** 08040865-13

Site: Monument, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE, TOTAL				**MCL**	**E325.2**	**Units: mg/L**	
Chloride	343		20	20	04/21/08 12:03	A_E	4389442
METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Iron	0.0569		0.02	1	04/18/08 23:27	EG	4386473

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

METALS BY METHOD 6020, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	16.5		0.005	1	04/17/08 22:10	AL_H	4384919
Manganese	0.0284		0.005	1	04/17/08 22:10	AL_H	4384919

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	04/16/2008 11:30	DDW	1.00

TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**	
Total Dissolved Solids (Residue,Filterable)	1210		10	1	04/16/08 16:30	KRD	4384363
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	9		5	1	04/18/08 21:42	E_G	4386267
Ethylbenzene	ND		5	1	04/18/08 21:42	E_G	4386267
Toluene	ND		5	1	04/18/08 21:42	E_G	4386267
m,p-Xylene	ND		5	1	04/18/08 21:42	E_G	4386267
o-Xylene	ND		5	1	04/18/08 21:42	E_G	4386267
Xylenes,Total	ND		5	1	04/18/08 21:42	E_G	4386267
Surr: 1,2-Dichloroethane-d4	98.0		% 62-130	1	04/18/08 21:42	E_G	4386267
Surr: 4-Bromofluorobenzene	96.0		% 70-130	1	04/18/08 21:42	E_G	4386267
Surr: Toluene-d8	98.0		% 74-122	1	04/18/08 21:42	E_G	4386267

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 08040865
Lab Batch ID: 77721

Method Blank

RunID: TJA_080418A-4386450 Units: mg/L
Analysis Date: 04/18/2008 21:46 Analyst: EG
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Result	Rep Limit
Iron	ND	0.02

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-01C	MW 11
08040865-02C	MW 15
08040865-03C	MW 14
08040865-04C	MW 6
08040865-05C	MW 9
08040865-06C	MW 3
08040865-07C	MW 16
08040865-08C	MW 7
08040865-09C	MW 8
08040865-10C	MW 12
08040865-11C	MW 13
08040865-12C	MW 4
08040865-13C	MW 5

Laboratory Control Sample (LCS)

RunID: TJA_080418A-4386451 Units: mg/L
Analysis Date: 04/18/2008 21:50 Analyst: EG
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron	1.000	1.087	108.7	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08040865-01
RunID: TJA_080418A-4386453 Units: mg/L
Analysis Date: 04/18/2008 21:59 Analyst: EG
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron	0.06217	1	1.006	94.42	1	1.051	98.89	4.341	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Metals by Method 6020, Total **WorkOrder:** 08040865
Method: SW6020A **Lab Batch ID:** 77721-I

Method Blank

RunID: ICPMS2_080417A-4384898 Units: mg/L
Analysis Date: 04/17/2008 19:51 Analyst: AL_H
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Result	Rep Limit
Barium	ND	0.005
Manganese	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-01C	MW 11
08040865-02C	MW 15
08040865-03C	MW 14
08040865-04C	MW 6
08040865-05C	MW 9
08040865-06C	MW 3
08040865-07C	MW 16
08040865-08C	MW 7
08040865-09C	MW 8
08040865-10C	MW 12
08040865-11C	MW 13
08040865-12C	MW 4
08040865-13C	MW 5

Laboratory Control Sample (LCS)

RunID: ICPMS2_080417A-4384899 Units: mg/L
Analysis Date: 04/17/2008 19:57 Analyst: AL_H
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	0.1000	0.09141	91.41	80	120
Manganese	0.1000	0.08727	87.27	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08040865-01
RunID: ICPMS2_080417A-4384901 Units: mg/L
Analysis Date: 04/17/2008 20:11 Analyst: AL_H
Preparation Date: 04/16/2008 11:30 Prep By: DD Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	0.1135	0.1	0.2188	105.3	0.1	0.2207	107.2	0.8646	20	75	125
Manganese	0.07048	0.1	0.1728	102.3	0.1	0.1743	103.8	0.8643	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis:	**Metals by Method 6020, Total**	**WorkOrder:**	**08040865**
Method:	**SW6020A**	**Lab Batch ID:**	**77721-I**

Qualifiers:

- ND/U - Not Detected at the Reporting Limit
- B/V - Analyte detected in the associated Method Blank
- J - Estimated value between MDL and PQL
- E - Estimated Value exceeds calibration curve
- N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
- TNTC - Too numerous to count
- MI - Matrix Interference
- D - Recovery Unreportable due to Dilution
- * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 08040865
Lab Batch ID: R234515

Method Blank

RunID: L_080418A-4386246 Units: ug/L
Analysis Date: 04/18/2008 11:51 Analyst: E_G
Preparation Date: 04/18/2008 11:51 Prep By: Method:

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	100.0	62-130
Surr: 4-Bromofluorobenzene	96.0	70-130
Surr: Toluene-d8	98.0	74-122

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-01A	MW 11
08040865-02A	MW 15
08040865-03A	MW 14
08040865-04A	MW 6
08040865-05A	MW 9
08040865-06A	MW 3
08040865-07A	MW 16
08040865-08A	MW 7
08040865-09A	MW 8
08040865-10A	MW 12
08040865-11A	MW 13
08040865-12A	MW 4
08040865-13A	MW 5

Laboratory Control Sample (LCS)

RunID: L_080418A-4386245 Units: ug/L
Analysis Date: 04/18/2008 11:13 Analyst: E_G
Preparation Date: 04/18/2008 11:13 Prep By: Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.0	90.0	76	126
Ethylbenzene	20.0	18.0	90.0	67	122
Toluene	20.0	18.0	90.0	70	131
m,p-Xylene	40.0	36.0	90.0	72	150
o-Xylene	20.0	18.0	90.0	78	141
Xylenes,Total	60	54	90	72	150
Surr: 1,2-Dichloroethane-d4	50.0	49	98.0	62	130
Surr: 4-Bromofluorobenzene	50.0	50	100	70	130
Surr: Toluene-d8	50.0	49	98.0	74	122

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08040934-01
RunID: L_080418A-4386253 Units: ug/L
Analysis Date: 04/18/2008 15:09 Analyst: E_G

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 08040865
Method: SW8260B **Lab Batch ID:** R234515

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	17.0	85.0	20	17.0	85.0	0	22	76	127
Ethylbenzene	ND	20	16.0	80.0	20	16.0	80.0	0	20	35	175
Toluene	ND	20	16.0	80.0	20	16.0	80.0	0	24	70	131
m,p-Xylene	ND	40	34.0	85.0	40	33.0	82.5	2.99	20	35	175
o-Xylene	ND	20	17.0	85.0	20	16.0	80.0	6.06	20	35	175
Xylenes,Total	ND	60	51	85	60	49	82	4.0	20	35	175
Surr: 1,2-Dichloroethane-d4	ND	50	50	100	50	50.0	100	0	30	62	130
Surr: 4-Bromofluorobenzene	ND	50	50	100	50	50.0	100	0	30	70	130
Surr: Toluene-d8	ND	50	49	98.0	50	48.0	96.0	2.06	30	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Total Dissolved Solids **WorkOrder:** 08040865
Method: E160.1 **Lab Batch ID:** R234375

Method Blank

RunID: WET_080416ZF-4384345 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-09B	MW 8
08040865-10B	MW 12
08040865-11B	MW 13
08040865-12B	MW 4
08040865-13B	MW 5

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_080416ZF-4384347 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	202.0	101.0	200.0	198.0	99.00	2.0	10	95	107

Sample Duplicate

Original Sample: 08040865-11
RunID: WET_080416ZF-4384360 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	1250	1254	0.0798	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON, TX 77054
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Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Total Dissolved Solids **WorkOrder:** 08040865
Method: E160.1 **Lab Batch ID:** R234375A

Method Blank

RunID: WET_080416ZF-4384345 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-01B	MW 11
08040865-02B	MW 15
08040865-03B	MW 14
08040865-04B	MW 6
08040865-05B	MW 9
08040865-06B	MW 3

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_080416ZF-4384347 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	202.0	101.0	200.0	198.0	99.00	2.0	10	95	107

Sample Duplicate

Original Sample: 08040349-08
RunID: WET_080416ZF-4384349 Units: mg/L
Analysis Date: 04/16/2008 16:30 Analyst: KRD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	3290	3310	0.606	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Total Dissolved Solids
Method: E160.1
WorkOrder: 08040865
Lab Batch ID: R234437

Method Blank

RunID: WET_080417U-4385286 Units: mg/L
Analysis Date: 04/17/2008 17:00 Analyst: KRD

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-07B	MW 16
08040865-08B	MW 7

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_080417U-4385288 Units: mg/L
Analysis Date: 04/17/2008 17:00 Analyst: KRD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	199.0	99.50	200.0	201.0	100.5	1.0	10	95	107

Sample Duplicate

Original Sample: 08040865-07
RunID: WET_080417U-4385290 Units: mg/L
Analysis Date: 04/17/2008 17:00 Analyst: KRD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	2000	1996	0.100	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Chloride, Total **WorkOrder:** 08040865
Method: E325.2 **Lab Batch ID:** R234687

Method Blank

RunID: KONELAB_080421A-4389423 Units: mg/L
Analysis Date: 04/21/2008 10:46 Analyst: A_E

Analyte	Result	Rep Limit
Chloride	ND	1.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-11B	MW 13
08040865-12B	MW 4
08040865-13B	MW 5

Laboratory Control Sample (LCS)

RunID: KONELAB_080421A-43894 Units: mg/L
Analysis Date: 04/21/2008 10:46 Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	50.00	47.52	95.03	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08040865-13
RunID: KONELAB_080421A-43894 Units: mg/L
Analysis Date: 04/21/2008 12:03 Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	343.2	50	377.1	N/C	50	370.7	N/C	N/C	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Marathon Petroleum Company, LLC

Marathon - Bertha Barber

Analysis: Chloride, Total **WorkOrder:** 08040865
Method: E325.2 **Lab Batch ID:** R234687A

Method Blank

RunID: KONELAB_080421A-4389423 Units: mg/L
Analysis Date: 04/21/2008 10:46 Analyst: A_E

Analyte	Result	Rep Limit
Chloride	ND	1.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08040865-01B	MW 11
08040865-02B	MW 15
08040865-03B	MW 14
08040865-04B	MW 6
08040865-05B	MW 9
08040865-06B	MW 3
08040865-07B	MW 16
08040865-08B	MW 7
08040865-09B	MW 8
08040865-10B	MW 12

Laboratory Control Sample (LCS)

RunID: KONELAB_080421A-43894 Units: mg/L
Analysis Date: 04/21/2008 10:46 Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	50.00	47.52	95.03	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08040865-01
RunID: KONELAB_080421A-43894 Units: mg/L
Analysis Date: 04/21/2008 11:15 Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	270.2	50	304.0	N/C	50	304.1	N/C	N/C	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	**08040865**	Received By:	**AE**
Date and Time Received:	**4/15/2008 10:00:00 AM**	Carrier name:	**Fedex-Standard Overnight**
Temperature:	**3.0°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes	☑	No	☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes	☐	No	☐	Not Present ☑
3.	**Custody seals intact on sample bottles?**	Yes	☐	No	☐	Not Present ☑
4.	**Chain of custody present?**	Yes	☑	No	☐	
5.	**Chain of custody signed when relinquished and received?**	Yes	☑	No	☐	
6.	**Chain of custody agrees with sample labels?**	Yes	☑	No	☐	
7.	**Samples in proper container/bottle?**	Yes	☑	No	☐	
8.	**Sample containers intact?**	Yes	☑	No	☐	
9.	**Sufficient sample volume for indicated test?**	Yes	☑	No	☐	
10.	**All samples received within holding time?**	Yes	☑	No	☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes	☑	No	☐	
12.	**Water - VOA vials have zero headspace?**	Yes	☑	No	☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes	☑	No	☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 278161 — page 1 of 4

Client Name:	BBC International, Inc.
Address:	1324 W. Marland, Hobbs, NM 88240
Phone/Fax:	575-397-6388 / 575-397-0397
Client Contact:	Cliff Brunson Email:
Project Name/No.:	Marathon
Site Name:	Bertha Barber
Site Location:	Monument, NM
Invoice To:	Terry Persaud Ph(713)296-3510

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil SL=sludge X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: BTEX 8260	Chloride, TDS	Mobile Fe/Mn/Ba
MW 11	4-11-08	1015		✓	W	V	40	1	3	✓		
MW 11	4-11-08	1015		✓	W	P	X	X	1		✓	
MW 11	4-11-08	1015		✓	W	P	X	2	1			✓
MW 15	4-11-08	1110		✓	W	V	40	1	3	✓		
MW 15	4-11-08	1110		✓	W	P	X	X	1		✓	
MW 15	4-11-08	1110		✓	W	P	X	2	1			✓
MW 14	4-11-08	1358		✓	W	V	40	1	3	✓		
MW 14	4-11-08	1358		✓	W	P	X	X	1		✓	
MW 14	4-11-08	1358		✓	W	P	X	2	1			✓
MW 6	4-11-08	1435		✓	W	V	40	1	3	✓		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 3.0

Requested TAT

Contract ☐ 72hr ☐ 24hr ☐ Standard ☐ 48hr ☐ Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial): MY

	date	time	
1. Relinquished by Sampler: Amy Ruth	4-14-08	16:40	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/15/8	time 1000	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 278152

080A0665

page 2 of 4

Client Name: BBC International, Inc.
Address: 1324 W. Marland, Hobbs, NM 88240
Phone/Fax: 575-397-6388 / 575-397-0397
Client Contact: Cliff Brunson Email:
Project Name/No.: Marathon
Site Name: Bertha Barber
Site Location: Monument, NM
Invoice To: Terry Leonard Ph: (713) 296-3570

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: BTEX 8260	Chloride, TDS	Metals Fe/Mn/Ba						
MW 6	4-11-08	1435		✓	W	P	X	X	1		✓							
MW 6	4-11-08	1435		✓	W	P	X	2	1			✓						
MW 9	4-11-08	1515		✓	W	V	40	1	3	✓								
MW 9	4-11-08	1515		✓	W	P	X	X	1		✓							
MW 9	4-11-08	1515		✓	W	P	X	2	1			✓						
MW 3	4-11-08	1602		✓	W	V	40	1	3	✓								
MW 3	4-11-08	1602		✓	W	P	X	X	1		✓							
MW 3	4-11-08	1602		✓	W	P	X	2	1			✓						
MW 16	4-11-08	1635		✓	W	V	40	1	3	✓								
MW 16	4-11-08	1635		✓	W	P	X	X	1		✓							

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp 3.0

Requested TAT

Contract ☐ 72hr ☐ 24hr ☐ Standard ☐ 48hr ☐ Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

~~PM review~~ (initial): AM

1. Relinquished by Sampler: Amy Ruth	date 4-14-08	time 16:40	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/15/8	time 1000	6. Received by Laboratory:

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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 278153

OS040865

page 3 of 4

Client Name: BBC International, Inc.
Address: 1324 W. Marland, Hobbs, NM 88240
Phone/Fax: 575-397-6388 / 575-397-0397
Client Contact: Cliff Brunson Email:
Project Name/No.: Marathon
Site Name: Bertha Barber
Site Location: Monument, NM
Invoice To: Terry Persaud Ph (713) 296-3510

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil SL=sludge X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: BTEX 8260	Chloride, TDS	Metals Fe/Mn/Ba						
MW 16	4-11-08	1635		✓	W	P	X	2	1			✓						
MW 7	4-11-08	1705		✓	W	V	40	1	3	✓								
MW 7	4-11-08	1705		✓	W	P	X	X	1		✓							
MW 7	4-11-08	1705		✓	W	P	X	2	1			✓						
MW 8	4-11-08	1736		✓	W	V	40	1	3	✓								
MW 8	4-11-08	1736		✓	W	P	X	X	1		✓							
MW 8	4-11-08	1736		✓	W	P	X	2	1			✓						
MW 12	4-11-08	1803		✓	W	V	40	1	3	✓								
MW 12	4-11-08	1803		✓	W	P	X	X	1		✓							
MW 12	4-11-08	1803		✓	W	P	X	2	1			✓						

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 3.0

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☐
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Amy Ruth	4-14-08	16:40	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/15/8	time 1000	6. Received by Laboratory:

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Scott, LA 70583 (337) 237-4775

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Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 278154

0804085b5

page 4 of 4

Client Name: BBC International

Address: 1324 W. Marland, Hobbs, NM 88240

Phone/Fax: 575-397-6388/575-397-0397

Client Contact: Cliff Brunson Email:

Project Name/No.: Marathon

Site Name: Bertha Barber

Site Location: Markham, NM

Invoice To: Terry Persaud Ph: 713/296-3570

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil SL=sludge X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: BTEX 8260	Chloride, TDS	Metals Fe/Mn/Ca
MW 13	4-14-08	9:22		X	W	V	40	1	3	X		
MW 13	4-14-08	9:22		X	W	P	X	X	1		X	
MW 13	4-14-08	9:22		X	W	P	X	2	1			X
MW 4	4/14/08	10:30		X	W	V	40	1	3	X		
MW 4	4/14/08	10:30		X	W	P	X	X	1		X	
MW 4	4/14/08	10:30		X	W	P	X	2	1			X
MW 5	4/14/08	11:33		X	W	V	40	1	3	X		
MW 5	4/14/08	11:33		X	W	P	X	X	1		X	
MW 5	4/14/08	11:33		X	W	P	X	2	1			X

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 2.0

Requested TAT

Contract ☐ 72hr ☐

24hr ☐ Standard ☐

48hr ☐

Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐

Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:	4-14-08	16:40	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/15/8	time 1000	6. Received by Laboratory:

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Traverse City, MI 49686 (231) 947-5777