



FEDEX: 795185867920

September 14, 2011

Mr. Christopher Ralston
Maryland Department of the Environment
Remediation Division, Oil Control Program
1800 Washington Blvd., Suite 620
Baltimore, Maryland 21230-1719

**Re: Vertical Head Testing Report
Inactive Exxon Facility #28077
14258 Jarrettsville Pike, Phoenix
Baltimore County, Maryland
Case No. 2006-0303-BA2**

Dear Mr. Ralston:

Kleinfelder East, Inc. (Kleinfelder), on behalf of ExxonMobil Environmental Services Company (ExxonMobil), commenced vertical head testing as outlined in the *Vertical Head Work Plan Proposal*¹ for the Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland (Site). The work plan was approved by the Maryland Department of the Environment, Oil Control Program (MDE-OCP) on March 9, 2011². Based on MDE recommendations, one additional well (MW-92C) was added to the vertical head study. The work plan was designed to isolate vertical intervals of the bedrock aquifer from which potentiometric measurements could be obtained. The initial phase of investigation began on April 11, 2011, and a preliminary data update report³ was provided to the MDE on May 20, 2011. The purpose of this document is to provide the Maryland Department of the Environment, Oil Control Program (MDE-OCP) with information regarding the methods of investigation, to transmit the vertical head data collected between April 11 and May 26, 2011, and to provide analysis and a summary of the data acquired.

¹ Kleinfelder, February 8, 2011, Vertical Head Work Plan Proposal, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Baltimore County, Maryland, Case No. 2006-0303-BA2.

² MDE, March 9, 2011, Vertical Head Work Plan – Approval, Case Number 2006-0303-BA2, Former Exxon R/S No. 2-8077, 14258 Jarrettsville Pike, Phoenix, Baltimore County, Maryland, Facility I.D. No. 12342.

³ Kleinfelder, May 20, 2011, Vertical Head Testing Data, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Baltimore County, Maryland, Case No. 2006-0303-BA2.

Packer Installation and Transducer Deployment

Packer installation was conducted by B. L. Myers of Glenmoore, Pennsylvania between April 11 and April 25, 2011. Packers were installed in ten monitoring wells: MW-42C, MW-92C, MW-93C, MW-128C, MW-131C, MW-133C, MW-141C, MW-173C, MW-174C, and MW-175C (**Figure 1**). Each packer assembly consisted of the following (bottom to top): a five foot section of 4" diameter steel pipe; a 6.25" diameter packer; a 6" coupling; a twenty-one foot screened section of 4" diameter steel pipe; a 6" coupling; a 6.25" diameter packer; and, a section of 2" diameter steel pipe extending slightly above the monitoring well top of casing.

The installation of the packers created three monitoring zones within each monitoring well:

- Top Zone – interval between the bottom of the casing and top of the upper packer,
- Middle Zone – the 22 foot zone between the packers, and
- Bottom Zone – interval between the bottom of the lower packer and bottom of borehole.

The depths of intervals created by packer installation are listed in **Table 1**. Solinst Levellogger pressure transducers M30/F100, M30/F100, and M100/ F300 were installed in the top, middle, and bottom monitoring zones, respectively. Data loggers were programmed to record pressure readings at one minute intervals.

Solinst barologger data logging pressure transducers M1.5/F5 were installed above the water level in the casings of monitoring wells MW-131C and MW-141C to record changes in barometric pressure. Barologgers were programmed to record pressure readings at one minute intervals.

Manual Gauging

Manual gauging of the top and middle zones of the C-series packer wells was conducted periodically between April 12 and May 26, 2011 to confirm data collected by the pressure transducers. Monitoring wells MW-41C, MW-53C, MW-56C, and MW-78C have been gauged monthly from discrete FLUTE liner intervals since June 2010. More frequent gauging was also conducted from these three monitoring wells during the vertical head measurement testing program. The A and B-series monitoring wells that comprise a local well cluster were also gauged periodically to provide additional potentiometric surface elevation data. Manual gauging was conducted daily until May 3, 2011. As approved by the MDE in an email dated May 10, 2011, daily manual gauging was reduced to twice-weekly (more frequently if conditions warranted) due to minor daily groundwater level fluctuations.

Transducer Data Retrieval

Each week, data were downloaded from the pressure transducers within the top and middle zones of the C-series monitoring wells and the barologgers. The transducers installed in the bottom zone of the C-series wells were not accessible until packers were removed from the well, and therefore the data were retrieved when the packers were removed. Transducer readings were compensated for fluctuations in barometric pressure.

Data Representation

Compensated pressure transducer data and manual gauging data from the packer zones for every C-series well, and the manual gauging data from the A and B-series wells were converted to groundwater elevation relative to mean sea level and plotted for the monitoring period. Manual gauging data from the discrete FLUTE liner intervals at MW-41C, MW-53C, MW-56C, and MW-78C (and associated A and B-series wells) were converted to groundwater elevation relative to mean sea level and plotted for the monitoring period. Manual gauging elevation data are included as **Table 2**. Charts representing the data from each well cluster are included in **Appendix A**.

Data Analysis Summary

The vertical head data were evaluated at the well cluster locations to ascertain an upward or downward hydraulic gradient. Although a gradient may be measureable, it is not necessarily indicative of groundwater flow unless a permeable flow path exists. The gradient direction was evaluated between the shallow and deep zones. For well clusters with packers, the water table elevation (A-zone well) was compared to the potentiometric elevation associated with the targeted packer interval within the deeper C-zone. At FLUTE well locations, the water table elevation (A-zone well) was compared to the uppermost sampling/gauging port isolated by the FLUTE liner within the C-zone. The data are also presented relative to the topographic position of the well cluster which is often correlated to the vertical gradient within the aquifer.⁴ This analysis is summarized in the table below:

Well Cluster	Topographic Position	Gradient Direction Shallow vs. Deep
MW-174	Upland	Down
MW-175		---
MW-173		Down
MW-93		Down
MW-92		Down
MW-41	Valley Side Slopes	Down
MW-141		Up
MW-42		Down
MW-133		Down
MW-53		Down
MW-131	Valley Bottom/Axis	Up
MW-78		Up
MW-56		Up
MW-128		Up

⁴ Heath, R.C., 1983, U.S. Geological Survey Water Supply Paper 2220: Basic Ground-Water Hydrology.

Figures 2 and 3 present the contoured potentiometric surface for both the shallow water table (A-zone) and deeper C-zone, respectively for the April 2010 groundwater potentiometric gauging event. These maps were submitted to MDE on May 18, 2010⁵ per MDE request. The potentiometric elevation surfaces represented by these two maps were subtracted from each other, and the elevation differences were mapped for comparison on Figure 4. This was accomplished by digitizing and gridding the contoured surfaces into two data files, which were subtracted from one another. The resulting data set was then used to develop a computer-generated contour map of the vertical potentiometric head differences. Figure 4 illustrates an upward hydraulic gradient beneath the northeast and southwest drainage valleys, and beneath the enhanced pumping remediation of the near northeast area of the site. Downward hydraulic gradients are observed beneath upland areas of the site. This analysis of the April 2010 A and C-zone potentiometric surfaces is generally consistent with the recent individual monitoring location results presented herein. A few differences correspond to monitoring wells located along valley side slopes. These few differences are attributable to natural seasonal variations over time, and the fact that the valley side slopes are transitional areas topographically.

Conclusions

General conclusions drawn from the vertical gradient analysis are summarized below:

- The dominant vertical gradient between shallow and deep zones at upland locations is downward. This is consistent with expected infiltration and recharge and downward gradients associated with elevated topography / plateaus (Heath, 1983).
- The dominant vertical gradient between shallow and deep zones at locations proximate to the valley bottom/axis is upward. This is consistent with expected groundwater discharge and upward gradients associated with valley bottoms and surface drainage/streams (Heath, 1983).
- Valley side slope locations exhibit both upward and downward vertical gradients depending on the location, with downward gradients being most common.

Closing

If you have any questions or require additional information please contact the undersigned at 410-850-0404.

Sincerely,
Kleinfelder East, Inc.



Jeffrey R. Hale, P.G.
Principal Hydrogeologist



Mark J. Schaaf, C.P.G.
Project Director

⁵ Kleinfelder, May 18, 2010, April 2010 Potentiometric Surface Maps.

Attachments:

CD-ROM – Complete Electronic Report & RAW transducer data files

Table 1 – Vertical Head Well Construction Details

Table 2 – Manual Groundwater Gauging Data

Figure 1 – Potentiometric Interval Testing Location Map

Figure 2 – April 2010 “A” Zone Potentiometric Surface Map

Figure 3 – April 2010 “C” Zone Potentiometric Surface Map

Figure 4 – Potentiometric Head Difference Map

Appendix A – Vertical Head Well Cluster Groundwater Elevation Charts

cc: Mr. John J. Hoban - Exxon Mobil Corporation (Kleinfelder File)
Ms. Celeste S. Quiralte, Esquire - Exxon Mobil Corporation
Ms. Ellen Jackson - Maryland Department of the Environment
Mr. Greg Martin - Roux Associates, Inc.
Mr. Carlos Bollar, Esq., - Archer & Greiner, P.C.
Ms. Sasha McNeeley, Esq., - Snyder Weltcheck & Snyder
Mr. Theodore M. Flerlage, Esquire - Law Offices of Peter Angelos
Mr. Michael Snyder, Esq., - Coady & Farley

TABLES

Table 1
Vertical Head Well Construction Details
 Inactive Exxon Facility # 28077
 14258 Jarrettsville Pike
 Phoenix, MD

Monitoring Well ID / Location	Top of Casing Elevation (ft-msl) *	Depth of Screened / Open Interval / Packer Interval or FLUTE Interval (ft-toc)	Open Interval Mid-Point Depth (feet)
MW-41A	549.12	15-35	25
MW-41B	549.55	48-58	53
MW-41C(75-80)	549.33	75-80	77.5
MW-41C(95-97)	549.33	95-97	96
MW-41C(120-130)	549.33	120-130	125
MW-41C(190-195)	549.33	190-195	192.5
MW-42A	579.72	15-35	25
MW-42B	580.00	45-55	50
MW-42C (Top)	579.51	60-113	86.5
MW-42C (Middle)	579.51	114-136	125
MW-53A	539.98	15-35	25
MW-53B	539.64	45-55	50
MW-53C(215-220)	538.57	215-220	217.5
MW-53C(225-235)	538.57	225-235	230
MW-56A	540.23	15-35	25
MW-56B	540.28	45-55	50
MW-56C(100-110)	540.30	100-110	105
MW-56C(310-315)	540.30	310-315	312.5
MW-56C(320-325)	540.30	320-325	322.5
MW-78A	530.77	2-20	11
MW-78B	530.42	35-45	40
MW-78C(60-70)	531.42	60-70	65
MW-92A	558.49	20-40	30
MW-92	557.70	69-109	89
MW-92C (Top)	558.18	60-198	129
MW-92C (Middle)	558.18	199-221	210
MW-93	578.44	27-42	34.5
MW-93B	578.32	55-75	65
MW-93C (Top)	579.25	80-173	126.5
MW-93C (Middle)	579.25	174-196	185
MW-128A	561.55	38-58	48

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Vertical Head Well Construction Details
 Inactive Exxon Facility # 28077
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Monitoring Well ID / Location	Top of Casing Elevation (ft-msl) *	Depth of Screened / Open Interval / Packer Interval or FLUTE Interval (ft-toc)	Open Interval Mid-Point Depth (feet)
MW-128B	561.18	68-78	73
MW-128C (Top)	564.09	40-93	66.5
MW-128C (Middle)	564.09	94-116	105
MW-131A	526.33	5-20	12.5
MW-131B	526.31	30-35	32.5
MW-131C (Top)	526.07	60-133	96.5
MW-131C (Middle)	526.07	134-156	145
MW-133A	549.05	15-30	22.5
MW-133B	549.22	40-50	45
MW-133C (Top)	551.08	60-92.5	76.25
MW-133C (Middle)	551.08	94-116	105
MW-141A	586.34	30-50	40
MW-141B	586.42	60-70	65
MW-141C (Top)	586.56	70-118	94
MW-141C (Middle)	586.56	119-141	130
MW-173B	589.76	65-80	72.5
MW-173C (Top)	590.29	80-273.5	176.75
MW-173C (Middle)	590.29	274-296	285
MW-174B	570.85	40-60	50
MW-174C (Top)	570.31	60-182	121
MW-174C (Middle)	570.31	184-206	195
MW-175C (Top)	590.15	60-188.5	124.25
MW-175C (Middle)	590.15	189-211	200

Notes:

ft-msl = feet relative to mean sea level

toc = top of casing

ft-toc = feet below top of casing

* = C-series TOC elevation: Packer Wells measured at 2" Packer drop pipe for both intervals (Top and Middle), FLUTE Wells measured at TOC and correction factor used for each interval (see Table 2).

Table 2
Manual Groundwater Gauging Data
 Inactive Exxon Facility # 28077
 14528 Jarrettsville Pike
 Phoenix, MD

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-41A	6/2/2010	549.12	26.49	NA	522.63
	7/6/2010	549.12	27.74	NA	521.38
	8/2/2010	549.12	28.41	NA	520.71
	9/1/2010	549.12	29.01	NA	520.11
	10/7/2010	549.12	28.76	NA	520.36
	11/3/2010	549.12	29.00	NA	520.12
	12/1/2010	549.12	29.21	NA	519.91
	1/3/2011	549.12	28.71	NA	520.41
	2/2/2011	549.12	28.97	NA	520.15
	3/4/2011	549.12	27.46	NA	521.66
	4/18/2011	549.12	23.60	NA	525.52
	4/19/2011	549.12	23.65	NA	525.47
	4/20/2011	549.12	23.51	NA	525.61
	4/21/2011	549.12	23.57	NA	525.55
	4/22/2011	549.12	23.60	NA	525.52
	4/25/2011	549.12	23.69	NA	525.43
	4/26/2011	549.12	23.77	NA	525.35
	4/27/2011	549.12	23.82	NA	525.30
	4/28/2011	549.12	23.86	NA	525.26
	4/29/2011	549.12	23.95	NA	525.17
	5/2/2011	549.12	24.20	NA	524.92
	5/3/2011	549.12	24.18	NA	524.94
	5/6/2011	549.12	24.31	NA	524.81
	5/9/2011	549.12	24.47	NA	524.65
	5/10/2011	549.12	24.49	NA	524.63
	5/13/2011	549.12	24.65	NA	524.47
	5/16/2011	549.12	24.72	NA	524.40
	5/18/2011	549.12	24.59	NA	524.53
5/19/2011	549.12	24.30	NA	524.82	
5/20/2011	549.12	23.90	NA	525.22	
5/25/2011	549.12	23.52	NA	525.60	
MW-41B	6/2/2010	549.55	27.01	NA	522.54
	7/6/2010	549.55	28.24	NA	521.31
	8/2/2010	549.55	28.82	NA	520.73
	9/1/2010	549.55	29.49	NA	520.06
	10/7/2010	549.55	29.56	NA	519.99
	11/3/2010	549.55	29.35	NA	520.20
	12/1/2010	549.55	29.71	NA	519.84
	1/3/2011	549.55	29.19	NA	520.36
	2/2/2011	549.55	29.42	NA	520.13
	3/4/2011	549.55	27.96	NA	521.59
	4/18/2011	549.55	24.39	NA	525.16
	4/19/2011	549.55	24.31	NA	525.24
	4/20/2011	549.55	24.22	NA	525.33
4/21/2011	549.55	24.21	NA	525.34	

Table 2
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 Inactive Exxon Facility # 28077
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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-41B	4/22/2011	549.55	24.29	NA	525.26
	4/25/2011	549.55	24.39	NA	525.16
	4/26/2011	549.55	24.46	NA	525.09
	4/27/2011	549.55	24.56	NA	524.99
	4/28/2011	549.55	24.67	NA	524.88
	4/29/2011	549.55	24.72	NA	524.83
	5/2/2011	549.55	24.71	NA	524.84
	5/3/2011	549.55	24.95	NA	524.60
	5/6/2011	549.55	25.02	NA	524.53
	5/9/2011	549.55	25.16	NA	524.39
	5/10/2011	549.55	25.20	NA	524.35
	5/13/2011	549.55	25.38	NA	524.17
	5/16/2011	549.55	25.40	NA	524.15
	5/18/2011	549.55	25.28	NA	524.27
	5/19/2011	549.55	25.00	NA	524.55
	5/20/2011	549.55	24.72	NA	524.83
	5/25/2011	549.55	24.50	NA	525.05
MW-41C(75-80)	6/16/2010	549.33	28.05	0.3250	521.61
	7/20/2010	549.33	29.24	0.3250	520.42
	8/20/2010	549.33	30.80	0.3250	518.86
	9/13/2010	549.33	30.48	0.3250	519.18
	10/26/2010	549.33	29.99	0.3250	519.67
	11/12/2010	549.33	29.96	0.3250	519.70
	12/20/2010	549.33	30.07	0.3250	519.59
	1/12/2011	549.33	31.48	0.3250	518.18
	2/10/2011	549.33	30.90	0.3250	518.76
	3/8/2011	549.33	28.56	0.3250	521.10
	4/18/2011	549.33	24.89	0.3250	524.77
	4/19/2011	549.33	25.04	0.3250	524.62
	4/20/2011	549.33	24.99	0.3250	524.67
	4/21/2011	549.33	25.08	0.3250	524.58
	4/22/2011	549.33	25.10	0.3250	524.56
	4/25/2011	549.33	25.47	0.3250	524.19
	4/26/2011	549.33	25.25	0.3250	524.41
	4/27/2011	549.33	25.34	0.3250	524.32
	4/28/2011	549.33	25.38	0.3250	524.28
	4/29/2011	549.33	25.41	0.3250	524.25
	5/2/2011	549.33	25.63	0.3250	524.03
	5/3/2011	549.33	25.69	0.3250	523.97
	5/6/2011	549.33	25.74	0.3250	523.92
5/9/2011	549.33	25.88	0.3250	523.78	
5/10/2011	549.33	25.92	0.3250	523.74	
5/13/2011	549.33	26.03	0.3250	523.63	
5/16/2011	549.33	26.09	0.3250	523.57	
5/19/2011	549.33	26.63	0.3250	523.03	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-41C(75-80)	5/20/2011	549.33	25.51	0.3250	524.15
	5/25/2011	549.33	25.04	0.3250	524.62
MW-41C(95-97)	6/16/2010	549.33	28.00	0.2333	521.56
	7/20/2010	549.33	29.05	0.2333	520.51
	8/20/2010	549.33	29.70	0.2333	519.86
	9/13/2010	549.33	30.37	0.2333	519.19
	10/26/2010	549.33	28.41	0.2333	521.15
	11/12/2010	549.33	30.00	0.2333	519.56
	12/20/2010	549.33	28.50	0.2333	521.06
	1/12/2011	549.33	30.69	0.2333	518.87
	2/10/2011	549.33	31.84	0.2333	517.72
	3/8/2011	549.33	28.45	0.2333	521.11
	4/18/2011	549.33	24.98	0.2333	524.58
	4/19/2011	549.33	24.97	0.2333	524.59
	4/20/2011	549.33	25.33	0.2333	524.23
	4/21/2011	549.33	25.05	0.2333	524.51
	4/22/2011	549.33	25.04	0.2333	524.52
	4/25/2011	549.33	25.47	0.2333	524.09
	4/26/2011	549.33	25.18	0.2333	524.38
	4/27/2011	549.33	25.27	0.2333	524.29
	4/28/2011	549.33	25.29	0.2333	524.27
	4/29/2011	549.33	25.18	0.2333	524.38
	5/2/2011	549.33	25.55	0.2333	524.01
	5/3/2011	549.33	25.61	0.2333	523.95
	5/6/2011	549.33	25.65	0.2333	523.91
	5/9/2011	549.33	25.81	0.2333	523.75
	5/10/2011	549.33	25.87	0.2333	523.69
	5/13/2011	549.33	25.79	0.2333	523.77
5/16/2011	549.33	25.95	0.2333	523.61	
5/19/2011	549.33	26.14	0.2333	523.42	
5/20/2011	549.33	25.60	0.2333	523.96	
5/25/2011	549.33	24.97	0.2333	524.59	
MW-41C(120-130)	6/16/2010	549.33	28.02	0.3917	521.70
	7/20/2010	549.33	29.49	0.3917	520.23
	8/20/2010	549.33	29.96	0.3917	519.76
	9/13/2010	549.33	30.45	0.3917	519.27
	10/26/2010	549.33	28.00	0.3917	521.72
	11/12/2010	549.33	29.83	0.3917	519.89
	12/20/2010	549.33	27.75	0.3917	521.97
	1/12/2011	549.33	30.92	0.3917	518.80
	2/10/2011	549.33	31.88	0.3917	517.84
	3/8/2011	549.33	28.92	0.3917	520.80
	4/18/2011	549.33	25.43	0.3917	524.29
	4/19/2011	549.33	24.27	0.3917	525.45
4/20/2011	549.33	24.28	0.3917	525.44	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-41C(120-130)	4/21/2011	549.33	24.69	0.3917	525.03
	4/22/2011	549.33	24.39	0.3917	525.33
	4/25/2011	549.33	24.42	0.3917	525.30
	4/26/2011	549.33	24.53	0.3917	525.19
	4/27/2011	549.33	24.60	0.3917	525.12
	4/28/2011	549.33	24.77	0.3917	524.95
	4/29/2011	549.33	24.84	0.3917	524.88
	5/2/2011	549.33	24.97	0.3917	524.75
	5/3/2011	549.33	25.06	0.3917	524.66
	5/6/2011	549.33	24.88	0.3917	524.84
	5/9/2011	549.33	25.15	0.3917	524.57
	5/10/2011	549.33	25.00	0.3917	524.72
	5/13/2011	549.33	25.12	0.3917	524.60
	5/16/2011	549.33	25.16	0.3917	524.56
	5/19/2011	549.33	26.02	0.3917	523.70
	5/20/2011	549.33	25.32	0.3917	524.40
5/25/2011	549.33	24.21	0.3917	525.51	
MW-41C(190-195)	6/16/2010	549.33	29.18	0.3333	520.48
	7/20/2010	549.33	31.10	0.3333	518.56
	8/20/2010	549.33	29.84	0.3333	519.82
	9/13/2010	549.33	32.79	0.3333	516.87
	10/26/2010	549.33	28.72	0.3333	520.94
	11/12/2010	549.33	29.71	0.3333	519.95
	12/20/2010	549.33	29.16	0.3333	520.50
	1/12/2011	549.33	30.13	0.3333	519.53
	2/10/2011	549.33	30.86	0.3333	518.80
	3/8/2011	549.33	32.27	0.3333	517.39
	4/18/2011	549.33	26.00	0.3333	523.66
	4/19/2011	549.33	26.53	0.3333	523.13
	4/20/2011	549.33	27.69	0.3333	521.97
	4/21/2011	549.33	27.90	0.3333	521.76
	4/22/2011	549.33	27.81	0.3333	521.85
	4/25/2011	549.33	27.71	0.3333	521.95
	4/26/2011	549.33	27.94	0.3333	521.72
	4/27/2011	549.33	27.85	0.3333	521.81
	4/28/2011	549.33	28.05	0.3333	521.61
	4/29/2011	549.33	28.17	0.3333	521.49
	5/2/2011	549.33	28.04	0.3333	521.62
	5/3/2011	549.33	27.79	0.3333	521.87
	5/6/2011	549.33	27.90	0.3333	521.76
	5/9/2011	549.33	27.84	0.3333	521.82
5/10/2011	549.33	27.86	0.3333	521.80	
5/13/2011	549.33	27.80	0.3333	521.86	
5/16/2011	549.33	28.10	0.3333	521.56	
5/19/2011	549.33	27.83	0.3333	521.83	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-41C(190-195)	5/20/2011	549.33	27.76	0.3333	521.90
	5/25/2011	549.33	27.33	0.3333	522.33
MW-42A	4/21/2011	579.72	22.93	NA	556.79
	4/22/2011	579.72	22.86	NA	556.86
	4/25/2011	579.72	22.64	NA	557.08
	4/26/2011	579.72	22.69	NA	557.03
	4/27/2011	579.72	22.61	NA	557.11
	4/28/2011	579.72	22.53	NA	557.19
	4/29/2011	579.72	22.58	NA	557.14
	5/2/2011	579.72	22.59	NA	557.13
	5/3/2011	579.72	22.54	NA	557.18
	5/6/2011	579.72	22.48	NA	557.24
	5/9/2011	579.72	22.67	NA	557.05
	5/10/2011	579.72	22.64	NA	557.08
	5/13/2011	579.72	22.58	NA	557.14
	5/16/2011	579.72	22.71	NA	557.01
	5/17/2011	579.72	22.75	NA	556.97
	5/18/2011	579.72	22.69	NA	557.03
	5/19/2011	579.72	22.84	NA	556.88
	5/20/2011	579.72	22.78	NA	556.94
5/26/2011	579.72	22.38	NA	557.34	
MW-42B	4/21/2011	580.00	35.59	NA	544.41
	4/22/2011	580.00	35.56	NA	544.44
	4/25/2011	580.00	35.45	NA	544.55
	4/26/2011	580.00	35.50	NA	544.50
	4/27/2011	580.00	35.42	NA	544.58
	4/28/2011	580.00	35.35	NA	544.65
	4/29/2011	580.00	35.40	NA	544.60
	5/2/2011	580.00	35.40	NA	544.60
	5/3/2011	580.00	35.31	NA	544.69
	5/6/2011	580.00	35.27	NA	544.73
	5/9/2011	580.00	35.25	NA	544.75
	5/10/2011	580.00	35.23	NA	544.77
	5/13/2011	580.00	35.20	NA	544.80
	5/16/2011	580.00	35.10	NA	544.90
	5/17/2011	580.00	35.12	NA	544.88
	5/18/2011	580.00	34.88	NA	545.12
	5/19/2011	580.00	35.13	NA	544.87
	5/20/2011	580.00	35.09	NA	544.91
5/26/2011	580.00	34.99	NA	545.01	
MW-42C (Top Zone)	4/20/2011	579.51	49.26	NA	530.25
	4/21/2011	579.51	49.92	NA	529.59
	4/22/2011	579.51	50.71	NA	528.80
	4/25/2011	579.51	52.51	NA	527.00
	4/26/2011	579.51	52.84	NA	526.67

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-42C (Top Zone)	4/27/2011	579.51	53.19	NA	526.32
	4/28/2011	579.51	53.56	NA	525.95
	4/29/2011	579.51	53.90	NA	525.61
	5/2/2011	579.51	54.65	NA	524.86
	5/3/2011	579.51	54.76	NA	524.75
	5/6/2011	579.51	55.12	NA	524.39
	5/9/2011	579.51	55.46	NA	524.05
	5/10/2011	579.51	55.48	NA	524.03
	5/13/2011	579.51	55.45	NA	524.06
	5/16/2011	579.51	55.07	NA	524.44
	5/17/2011	579.51	55.04	NA	524.47
	5/18/2011	579.51	54.76	NA	524.75
	5/19/2011	579.51	54.69	NA	524.82
	5/20/2011	579.51	54.61	NA	524.90
5/23/2011	579.51	54.81	NA	524.70	
MW-42C (Middle Zone)	4/20/2011	579.51	49.25	NA	530.26
	4/21/2011	579.51	49.96	NA	529.55
	4/22/2011	579.51	50.72	NA	528.79
	4/25/2011	579.51	52.51	NA	527.00
	4/26/2011	579.51	52.90	NA	526.61
	4/27/2011	579.51	53.21	NA	526.30
	4/28/2011	579.51	53.58	NA	525.93
	4/29/2011	579.51	53.97	NA	525.54
	5/2/2011	579.51	54.67	NA	524.84
	5/3/2011	579.51	54.77	NA	524.74
	5/6/2011	579.51	55.14	NA	524.37
	5/9/2011	579.51	55.45	NA	524.06
	5/10/2011	579.51	55.48	NA	524.03
	5/13/2011	579.51	55.43	NA	524.08
	5/16/2011	579.51	55.07	NA	524.44
	5/17/2011	579.51	55.26	NA	524.25
	5/18/2011	579.51	54.71	NA	524.80
	5/19/2011	579.51	54.80	NA	524.71
5/20/2011	579.51	54.73	NA	524.78	
5/23/2011	579.51	54.95	NA	524.56	
MW-53A	6/2/2010	539.98	14.59	NA	525.39
	7/6/2010	539.98	16.75	NA	523.23
	8/2/2010	539.98	18.00	NA	521.98
	9/1/2010	539.98	19.01	NA	520.97
	10/7/2010	539.98	18.77	NA	521.21
	11/3/2010	539.98	18.55	NA	521.43
	12/1/2010	539.98	18.94	NA	521.04
	1/3/2011	539.98	18.11	NA	521.87
	2/2/2011	539.98	21.50	NA	518.48
	3/4/2011	539.98	15.85	NA	524.13

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-53A	4/18/2011	539.98	11.97	NA	528.01
	4/19/2011	539.98	11.83	NA	528.15
	4/20/2011	539.98	11.67	NA	528.31
	4/21/2011	539.98	11.64	NA	528.34
	4/22/2011	539.98	11.57	NA	528.41
	4/25/2011	539.98	11.47	NA	528.51
	4/26/2011	539.98	11.56	NA	528.42
	4/27/2011	539.98	11.55	NA	528.43
	4/28/2011	539.98	11.55	NA	528.43
	4/29/2011	539.98	11.67	NA	528.31
	5/2/2011	539.98	11.85	NA	528.13
	5/3/2011	539.98	11.87	NA	528.11
	5/6/2011	539.98	11.99	NA	527.99
	5/9/2011	539.98	12.11	NA	527.87
	5/10/2011	539.98	12.09	NA	527.89
	5/13/2011	539.98	12.16	NA	527.82
	5/16/2011	539.98	12.27	NA	527.71
	5/18/2011	539.98	12.03	NA	527.95
	5/19/2011	539.98	13.04	NA	526.94
	5/20/2011	539.98	11.89	NA	528.09
5/25/2011	539.98	11.10	NA	528.88	
MW-53B	6/2/2010	539.64	10.74	NA	528.90
	7/6/2010	539.64	14.03	NA	525.61
	8/2/2010	539.64	14.57	NA	525.07
	9/1/2010	539.64	14.97	NA	524.67
	10/7/2010	539.64	11.95	NA	527.69
	11/3/2010	539.64	12.98	NA	526.66
	12/1/2010	539.64	13.61	NA	526.03
	1/3/2011	539.64	14.50	NA	525.14
	2/2/2011	539.64	15.00	NA	524.64
	3/4/2011	539.64	12.79	NA	526.85
	4/18/2011	539.64	9.75	NA	529.89
	4/19/2011	539.64	9.42	NA	530.22
	4/20/2011	539.64	9.28	NA	530.36
	4/21/2011	539.64	9.08	NA	530.56
	4/22/2011	539.64	9.21	NA	530.43
	4/25/2011	539.64	9.28	NA	530.36
	4/26/2011	539.64	9.38	NA	530.26
	4/27/2011	539.64	9.53	NA	530.11
	4/28/2011	539.64	10.13	NA	529.51
	4/29/2011	539.64	10.16	NA	529.48
5/2/2011	539.64	9.32	NA	530.32	
5/3/2011	539.64	9.28	NA	530.36	
5/6/2011	539.64	9.06	NA	530.58	
5/9/2011	539.64	8.69	NA	530.95	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-53B	5/10/2011	539.64	8.70	NA	530.94
	5/13/2011	539.64	10.07	NA	529.57
	5/16/2011	539.64	10.08	NA	529.56
	5/18/2011	539.64	9.90	NA	529.74
	5/19/2011	539.64	11.19	NA	528.45
	5/20/2011	539.64	10.64	NA	529.00
	5/25/2011	539.64	9.73	NA	529.91
MW-53C(215-220)	6/16/2010	538.57	7.12	0.2917	531.74
	7/20/2010	538.57	13.88	0.2917	524.98
	8/20/2010	538.57	13.09	0.2917	525.77
	9/13/2010	538.57	14.25	0.2917	524.61
	10/26/2010	538.57	14.89	0.2917	523.97
	11/12/2010	538.57	16.29	0.2917	522.57
	12/20/2010	538.57	14.19	0.2917	524.67
	1/12/2011	538.57	14.95	0.2917	523.91
	2/10/2011	538.57	9.83	0.2917	529.03
	3/8/2011	538.57	15.57	0.2917	523.29
	4/18/2011	538.57	11.40	0.2917	527.46
	4/19/2011	538.57	12.38	0.2917	526.48
	4/20/2011	538.57	9.14	0.2917	529.72
	4/21/2011	538.57	11.50	0.2917	527.36
	4/22/2011	538.57	11.98	0.2917	526.88
	4/26/2011	538.57	10.81	0.2917	528.05
	4/27/2011	538.57	11.64	0.2917	527.22
	4/28/2011	538.57	12.89	0.2917	525.97
	4/29/2011	538.57	9.40	0.2917	529.46
	5/2/2011	538.57	9.36	0.2917	529.50
	5/3/2011	538.57	11.66	0.2917	527.20
	5/6/2011	538.57	11.58	0.2917	527.28
	5/9/2011	538.57	11.49	0.2917	527.37
	5/10/2011	538.57	11.60	0.2917	527.26
	5/13/2011	538.57	11.74	0.2917	527.12
5/16/2011	538.57	11.42	0.2917	527.44	
5/19/2011	538.57	11.61	0.2917	527.25	
5/20/2011	538.57	11.55	0.2917	527.31	
5/25/2011	538.57	11.08	0.2917	527.78	
MW-53C(225-235)	6/16/2010	538.57	7.06	0.2333	531.74
	7/20/2010	538.57	14.00	0.2333	524.80
	8/20/2010	538.57	12.92	0.2333	525.88
	9/13/2010	538.57	14.29	0.2333	524.51
	10/26/2010	538.57	14.93	0.2333	523.87
	11/12/2010	538.57	16.37	0.2333	522.43
	12/20/2010	538.57	14.23	0.2333	524.57
	1/12/2011	538.57	13.79	0.2333	525.01
2/10/2011	538.57	10.20	0.2333	528.60	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-53C(225-235)	3/8/2011	538.57	15.69	0.2333	523.11
	4/18/2011	538.57	11.39	0.2333	527.41
	4/19/2011	538.57	12.44	0.2333	526.36
	4/20/2011	538.57	8.02	0.2333	530.78
	4/21/2011	538.57	10.43	0.2333	528.37
	4/22/2011	538.57	11.95	0.2333	526.85
	4/26/2011	538.57	9.47	0.2333	529.33
	4/27/2011	538.57	9.97	0.2333	528.83
	4/28/2011	538.57	12.41	0.2333	526.39
	4/29/2011	538.57	9.29	0.2333	529.51
	5/2/2011	538.57	8.83	0.2333	529.97
	5/3/2011	538.57	9.29	0.2333	529.51
	5/6/2011	538.57	10.07	0.2333	528.73
	5/9/2011	538.57	10.02	0.2333	528.78
	5/10/2011	538.57	10.21	0.2333	528.59
	5/13/2011	538.57	10.92	0.2333	527.88
	5/16/2011	538.57	10.68	0.2333	528.12
	5/19/2011	538.57	10.80	0.2333	528.00
	5/20/2011	538.57	10.68	0.2333	528.12
	5/25/2011	538.57	10.13	0.2333	528.67
MW-56A	6/2/2010	540.23	14.75	NA	525.48
	7/6/2010	540.23	16.84	NA	523.39
	8/2/2010	540.23	18.06	NA	522.17
	9/1/2010	540.23	19.19	NA	521.04
	10/7/2010	540.23	19.17	NA	521.06
	11/3/2010	540.23	19.44	NA	520.79
	12/1/2010	540.23	19.45	NA	520.78
	1/3/2011	540.23	18.86	NA	521.37
	2/2/2011	540.23	19.20	NA	521.03
	3/4/2011	540.23	16.95	NA	523.28
	4/18/2011	540.23	12.55	NA	527.68
	4/19/2011	540.23	12.66	NA	527.57
	4/20/2011	540.23	12.85	NA	527.38
	4/21/2011	540.23	12.92	NA	527.31
	4/22/2011	540.23	12.71	NA	527.52
	4/25/2011	540.23	12.61	NA	527.62
	4/26/2011	540.23	12.72	NA	527.51
	4/27/2011	540.23	12.96	NA	527.27
	4/28/2011	540.23	12.75	NA	527.48
	4/29/2011	540.23	12.80	NA	527.43
5/2/2011	540.23	12.76	NA	527.47	
5/3/2011	540.23	12.93	NA	527.30	
5/6/2011	540.23	12.98	NA	527.25	
5/9/2011	540.23	13.10	NA	527.13	
5/10/2011	540.23	13.15	NA	527.08	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-56A	5/13/2011	540.23	13.20	NA	527.03
	5/16/2011	540.23	13.06	NA	527.17
	5/18/2011	540.23	13.08	NA	527.15
	5/19/2011	540.23	13.06	NA	527.17
	5/20/2011	540.23	12.75	NA	527.48
	5/25/2011	540.23	12.44	NA	527.79
MW-56B	6/2/2010	540.28	14.79	NA	525.49
	7/6/2010	540.28	16.91	NA	523.37
	8/2/2010	540.28	17.95	NA	522.33
	9/1/2010	540.28	19.23	NA	521.05
	10/7/2010	540.28	20.30	NA	519.98
	11/3/2010	540.28	19.82	NA	520.46
	12/1/2010	540.28	20.00	NA	520.28
	1/3/2011	540.28	19.42	NA	520.86
	2/2/2011	540.28	19.91	NA	520.37
	3/4/2011	540.28	17.56	NA	522.72
	4/18/2011	540.28	13.09	NA	527.19
	4/19/2011	540.28	13.05	NA	527.23
	4/20/2011	540.28	13.10	NA	527.18
	4/21/2011	540.28	13.12	NA	527.16
	4/22/2011	540.28	13.15	NA	527.13
	4/25/2011	540.28	13.05	NA	527.23
	4/26/2011	540.28	13.18	NA	527.10
	4/27/2011	540.28	13.31	NA	526.97
	4/28/2011	540.28	13.12	NA	527.16
	4/29/2011	540.28	13.12	NA	527.16
	5/2/2011	540.28	13.19	NA	527.09
	5/3/2011	540.28	13.35	NA	526.93
	5/6/2011	540.28	13.37	NA	526.91
	5/9/2011	540.28	13.52	NA	526.76
	5/10/2011	540.28	13.57	NA	526.71
	5/13/2011	540.28	13.66	NA	526.62
	5/16/2011	540.28	13.58	NA	526.70
5/18/2011	540.28	13.51	NA	526.77	
5/19/2011	540.28	13.22	NA	527.06	
5/20/2011	540.28	13.01	NA	527.27	
5/25/2011	540.28	12.69	NA	527.59	
MW-56C(100-110)	6/16/2010	540.30	13.55	0.2250	526.98
	7/20/2010	540.30	15.56	0.2250	524.97
	8/20/2010	540.30	16.90	0.2250	523.63
	9/13/2010	540.30	17.10	0.2250	523.43
	10/26/2010	540.30	17.10	0.2250	523.43
	11/12/2010	540.30	18.96	0.2250	521.57
	12/20/2010	540.30	18.34	0.2250	522.19
	1/12/2011	540.30	18.37	0.2250	522.16

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-56C(100-110)	2/10/2011	540.30	15.79	0.2250	524.74
	3/8/2011	540.30	17.43	0.2250	523.10
	4/18/2011	540.30	13.81	0.2250	526.72
	4/19/2011	540.30	13.41	0.2250	527.12
	4/20/2011	540.30	13.05	0.2250	527.48
	4/21/2011	540.30	13.22	0.2250	527.31
	4/22/2011	540.30	13.30	0.2250	527.23
	4/25/2011	540.30	11.99	0.2250	528.54
	4/26/2011	540.30	12.00	0.2250	528.53
	4/27/2011	540.30	13.02	0.2250	527.51
	4/28/2011	540.30	12.83	0.2250	527.70
	4/29/2011	540.30	12.85	0.2250	527.68
	5/2/2011	540.30	11.98	0.2250	528.55
	5/3/2011	540.30	12.10	0.2250	528.43
	5/6/2011	540.30	12.16	0.2250	528.37
	5/9/2011	540.30	12.08	0.2250	528.45
	5/10/2011	540.30	12.11	0.2250	528.42
	5/13/2011	540.30	12.13	0.2250	528.40
	5/16/2011	540.30	12.09	0.2250	528.44
	5/19/2011	540.30	11.91	0.2250	528.62
5/20/2011	540.30	11.80	0.2250	528.73	
5/25/2011	540.30	11.69	0.2250	528.84	
MW-56C(310-315)	6/16/2010	540.30	13.29	0.2083	527.22
	7/20/2010	540.30	15.25	0.2083	525.26
	8/20/2010	540.30	16.52	0.2083	523.99
	9/13/2010	540.30	17.07	0.2083	523.44
	10/26/2010	540.30	16.66	0.2083	523.85
	11/12/2010	540.30	18.75	0.2083	521.76
	12/20/2010	540.30	16.91	0.2083	523.60
	1/12/2011	540.30	18.49	0.2083	522.02
	2/10/2011	540.30	16.41	0.2083	524.10
	3/8/2011	540.30	17.33	0.2083	523.18
	4/18/2011	540.30	14.31	0.2083	526.20
	4/19/2011	540.30	13.69	0.2083	526.82
	4/20/2011	540.30	13.00	0.2083	527.51
	4/21/2011	540.30	13.06	0.2083	527.45
	4/22/2011	540.30	13.26	0.2083	527.25
	4/25/2011	540.30	12.84	0.2083	527.67
	4/26/2011	540.30	12.96	0.2083	527.55
	4/27/2011	540.30	13.21	0.2083	527.30
	4/28/2011	540.30	13.21	0.2083	527.30
	4/29/2011	540.30	13.76	0.2083	526.75
5/2/2011	540.30	12.87	0.2083	527.64	
5/3/2011	540.30	12.95	0.2083	527.56	
5/6/2011	540.30	12.90	0.2083	527.61	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-56C(310-315)	5/9/2011	540.30	12.79	0.2083	527.72
	5/10/2011	540.30	12.82	0.2083	527.69
	5/13/2011	540.30	12.94	0.2083	527.57
	5/16/2011	540.30	12.61	0.2083	527.90
	5/19/2011	540.30	12.49	0.2083	528.02
	5/20/2011	540.30	12.42	0.2083	528.09
	5/25/2011	540.30	12.37	0.2083	528.14
MW-56C(320-325)	6/16/2010	540.30	13.37	0.2417	527.17
	7/20/2010	540.30	15.29	0.2417	525.25
	8/20/2010	540.30	16.58	0.2417	523.96
	9/13/2010	540.30	17.12	0.2417	523.42
	10/26/2010	540.30	16.69	0.2417	523.85
	11/12/2010	540.30	18.82	0.2417	521.72
	12/20/2010	540.30	16.76	0.2417	523.78
	1/12/2011	540.30	19.00	0.2417	521.54
	2/10/2011	540.30	17.93	0.2417	522.61
	3/8/2011	540.30	17.39	0.2417	523.15
	4/18/2011	540.30	13.27	0.2417	527.27
	4/19/2011	540.30	13.74	0.2417	526.80
	4/20/2011	540.30	13.17	0.2417	527.37
	4/21/2011	540.30	13.29	0.2417	527.25
	4/22/2011	540.30	13.23	0.2417	527.31
	4/25/2011	540.30	12.90	0.2417	527.64
	4/26/2011	540.30	13.05	0.2417	527.49
	4/27/2011	540.30	13.86	0.2417	526.68
	4/28/2011	540.30	13.27	0.2417	527.27
	4/29/2011	540.30	13.79	0.2417	526.75
	5/2/2011	540.30	12.74	0.2417	527.80
	5/3/2011	540.30	13.01	0.2417	527.53
	5/6/2011	540.30	12.94	0.2417	527.60
	5/9/2011	540.30	12.83	0.2417	527.71
	5/10/2011	540.30	12.87	0.2417	527.67
	5/13/2011	540.30	12.96	0.2417	527.58
	5/16/2011	540.30	12.65	0.2417	527.89
5/19/2011	540.30	12.55	0.2417	527.99	
5/20/2011	540.30	12.43	0.2417	528.11	
5/25/2011	540.30	12.31	0.2417	528.23	
MW-78A	6/2/2010	530.77	5.15	NA	525.62
	7/6/2010	530.77	7.60	NA	523.17
	8/3/2010	530.77	8.32	NA	522.45
	9/2/2010	530.77	9.56	NA	521.21
	10/7/2010	530.77	7.98	NA	522.79
	11/3/2010	530.77	9.50	NA	521.27
	12/1/2010	530.77	9.45	NA	521.32
	1/3/2011	530.77	9.86	NA	520.91

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-78A	2/2/2011	530.77	10.13	NA	520.64
	3/4/2011	530.77	8.33	NA	522.44
	4/7/2011	530.77	5.16	NA	525.61
	4/26/2011	530.77	4.23	NA	526.54
	5/4/2011	530.77	4.28	NA	526.49
	5/19/2011	530.77	1.92	NA	528.85
MW-78B	6/2/2010	530.42	4.66	NA	525.76
	7/6/2010	530.42	7.11	NA	523.31
	8/3/2010	530.42	7.87	NA	522.55
	9/2/2010	530.42	9.07	NA	521.35
	10/7/2010	530.42	7.59	NA	522.83
	11/3/2010	530.42	9.03	NA	521.39
	12/1/2010	530.42	9.05	NA	521.37
	1/3/2011	530.42	9.41	NA	521.01
	2/2/2011	530.42	9.42	NA	521.00
	3/4/2011	530.42	7.90	NA	522.52
	4/7/2011	530.42	4.62	NA	525.80
	5/4/2011	530.42	3.72	NA	526.70
	MW-78C(60-70)	6/16/2010	531.42	3.12	0.2083
7/20/2010		531.42	3.39	0.2083	528.24
8/20/2010		531.42	3.61	0.2083	528.02
9/13/2010		531.42	3.50	0.2083	528.13
10/26/2010		531.42	3.76	0.2083	527.87
11/12/2010		531.42	5.12	0.2083	526.51
12/20/2010		531.42	5.69	0.2083	525.94
1/12/2011		531.42	5.76	0.2083	525.87
2/10/2011		531.42	6.23	0.2083	525.40
3/8/2011		531.42	5.16	0.2083	526.47
4/18/2011		531.42	2.14	0.2083	529.49
5/4/2011		531.42	2.44	0.2083	529.19
MW-92A	4/19/2011	558.49	23.82	NA	534.67
	4/20/2011	558.49	23.80	NA	534.69
	4/21/2011	558.49	23.83	NA	534.66
	4/22/2011	558.49	23.85	NA	534.64
	4/25/2011	558.49	23.44	NA	535.05
	4/26/2011	558.49	23.72	NA	534.77
	4/27/2011	558.49	23.72	NA	534.77
	4/28/2011	558.49	23.69	NA	534.80
	4/29/2011	558.49	23.69	NA	534.80
	5/2/2011	558.49	23.69	NA	534.80
	5/3/2011	558.49	23.63	NA	534.86
	5/6/2011	558.49	23.66	NA	534.83
	5/9/2011	558.49	23.60	NA	534.89
	5/10/2011	558.49	23.58	NA	534.91
5/13/2011	558.49	23.60	NA	534.89	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-92A	5/16/2011	558.49	23.57	NA	534.92
	5/17/2011	558.49	23.49	NA	535.00
	5/18/2011	558.49	23.62	NA	534.87
	5/19/2011	558.49	23.67	NA	534.82
	5/20/2011	558.49	23.69	NA	534.80
	5/26/2011	558.49	23.57	NA	534.92
MW-92	4/19/2011	557.70	28.23	NA	529.47
	4/20/2011	557.70	28.06	NA	529.64
	4/21/2011	557.70	27.96	NA	529.74
	4/22/2011	557.70	27.93	NA	529.77
	4/25/2011	557.70	28.12	NA	529.58
	4/26/2011	557.70	28.18	NA	529.52
	4/27/2011	557.70	28.24	NA	529.46
	4/28/2011	557.70	28.41	NA	529.29
	4/29/2011	557.70	28.25	NA	529.45
	5/2/2011	557.70	28.56	NA	529.14
	5/3/2011	557.70	28.57	NA	529.13
	5/6/2011	557.70	28.48	NA	529.22
	5/9/2011	557.70	28.15	NA	529.55
	5/10/2011	557.70	28.10	NA	529.60
	5/13/2011	557.70	28.13	NA	529.57
	5/16/2011	557.70	27.91	NA	529.79
	5/17/2011	557.70	28.10	NA	529.60
	5/18/2011	557.70	27.95	NA	529.75
	5/19/2011	557.70	27.83	NA	529.87
	5/20/2011	557.70	27.60	NA	530.10
5/26/2011	557.70	27.75	NA	529.95	
MW-92C (Top Zone)	4/19/2011	558.18	23.10	NA	535.08
	4/20/2011	558.18	24.21	NA	533.97
	4/21/2011	558.18	26.60	NA	531.58
	4/22/2011	558.18	29.34	NA	528.84
	4/25/2011	558.18	31.31	NA	526.87
	4/26/2011	558.18	32.42	NA	525.76
	4/27/2011	558.18	31.34	NA	526.84
	4/28/2011	558.18	30.60	NA	527.58
	4/29/2011	558.18	31.66	NA	526.52
	5/2/2011	558.18	37.25	NA	520.93
	5/3/2011	558.18	33.80	NA	524.38
	5/6/2011	558.18	31.63	NA	526.55
	5/9/2011	558.18	29.98	NA	528.20
	5/10/2011	558.18	30.41	NA	527.77
	5/13/2011	558.18	35.00	NA	523.18
5/16/2011	558.18	32.55	NA	525.63	
5/17/2011	558.18	29.31	NA	528.87	
5/18/2011	558.18	27.98	NA	530.20	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-92C (Top Zone)	5/19/2011	558.18	27.32	NA	530.86
	5/20/2011	558.18	27.13	NA	531.05
	5/24/2011	558.18	29.61	NA	528.57
MW-92C (Middle Zone)	4/19/2011	558.18	27.25	NA	530.93
	4/20/2011	558.18	26.42	NA	531.76
	4/21/2011	558.18	27.18	NA	531.00
	4/22/2011	558.18	31.95	NA	526.23
	4/25/2011	558.18	32.68	NA	525.50
	4/26/2011	558.18	33.05	NA	525.13
	4/27/2011	558.18	32.26	NA	525.92
	4/28/2011	558.18	30.31	NA	527.87
	4/29/2011	558.18	35.42	NA	522.76
	5/2/2011	558.18	37.93	NA	520.25
	5/3/2011	558.18	33.09	NA	525.09
	5/6/2011	558.18	33.57	NA	524.61
	5/9/2011	558.18	31.32	NA	526.86
	5/10/2011	558.18	30.31	NA	527.87
	5/13/2011	558.18	37.12	NA	521.06
	5/16/2011	558.18	32.56	NA	525.62
	5/17/2011	558.18	29.35	NA	528.83
	5/18/2011	558.18	28.00	NA	530.18
	5/19/2011	558.18	27.46	NA	530.72
	5/20/2011	558.18	33.50	NA	524.68
	5/24/2011	558.18	29.57	NA	528.61
MW-93	4/20/2011	578.44	31.98	NA	546.46
	4/21/2011	578.44	32.02	NA	546.42
	4/22/2011	578.44	31.98	NA	546.46
	4/25/2011	578.44	31.80	NA	546.64
	4/26/2011	578.44	31.80	NA	546.64
	4/27/2011	578.44	31.76	NA	546.68
	4/28/2011	578.44	31.66	NA	546.78
	4/29/2011	578.44	31.91	NA	546.53
	5/2/2011	578.44	31.58	NA	546.86
	5/3/2011	578.44	31.50	NA	546.94
	5/6/2011	578.44	31.59	NA	546.85
	5/9/2011	578.44	31.41	NA	547.03
	5/10/2011	578.44	31.36	NA	547.08
	5/13/2011	578.44	31.50	NA	546.94
	5/16/2011	578.44	31.22	NA	547.22
	5/17/2011	578.44	31.48	NA	546.96
	5/18/2011	578.44	31.16	NA	547.28
5/19/2011	578.44	31.28	NA	547.16	
5/20/2011	578.44	31.26	NA	547.18	
5/26/2011	578.44	30.91	NA	547.53	
MW-93B	4/20/2011	578.32	31.76	NA	546.56

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-93B	4/21/2011	578.32	31.66	NA	546.66
	4/22/2011	578.32	31.65	NA	546.67
	4/25/2011	578.32	31.69	NA	546.63
	4/26/2011	578.32	31.59	NA	546.73
	4/27/2011	578.32	31.61	NA	546.71
	4/28/2011	578.32	31.58	NA	546.74
	4/29/2011	578.32	31.68	NA	546.64
	5/2/2011	578.32	31.39	NA	546.93
	5/3/2011	578.32	31.47	NA	546.85
	5/6/2011	578.32	31.51	NA	546.81
	5/9/2011	578.32	31.27	NA	547.05
	5/10/2011	578.32	31.20	NA	547.12
	5/13/2011	578.32	31.33	NA	546.99
	5/16/2011	578.32	31.00	NA	547.32
	5/17/2011	578.32	31.28	NA	547.04
	5/18/2011	578.32	31.20	NA	547.12
	5/19/2011	578.32	31.05	NA	547.27
	5/20/2011	578.32	31.08	NA	547.24
5/26/2011	578.32	30.70	NA	547.62	
MW-93C (Top Zone)	4/20/2011	579.25	37.30	NA	541.95
	4/21/2011	579.25	38.15	NA	541.10
	4/22/2011	579.25	38.20	NA	541.05
	4/25/2011	579.25	37.80	NA	541.45
	4/26/2011	579.25	38.58	NA	540.67
	4/27/2011	579.25	38.35	NA	540.90
	4/28/2011	579.25	38.28	NA	540.97
	4/29/2011	579.25	38.30	NA	540.95
	5/2/2011	579.25	39.21	NA	540.04
	5/3/2011	579.25	38.77	NA	540.48
	5/6/2011	579.25	38.13	NA	541.12
	5/9/2011	579.25	37.68	NA	541.57
	5/10/2011	579.25	38.14	NA	541.11
	5/13/2011	579.25	38.27	NA	540.98
	5/16/2011	579.25	37.65	NA	541.60
	5/17/2011	579.25	37.34	NA	541.91
	5/18/2011	579.25	36.94	NA	542.31
	5/19/2011	579.25	36.79	NA	542.46
5/20/2011	579.25	36.69	NA	542.56	
5/24/2011	579.25	36.85	NA	542.40	
MW-93C (Middle Zone)	4/20/2011	579.25	39.52	NA	539.73
	4/21/2011	579.25	40.63	NA	538.62
	4/22/2011	579.25	40.71	NA	538.54
	4/25/2011	579.25	40.46	NA	538.79
	4/26/2011	579.25	41.79	NA	537.46
	4/27/2011	579.25	41.18	NA	538.07

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-93C (Middle Zone)	4/28/2011	579.25	41.15	NA	538.10
	4/29/2011	579.25	40.97	NA	538.28
	5/2/2011	579.25	42.82	NA	536.43
	5/3/2011	579.25	41.71	NA	537.54
	5/6/2011	579.25	41.69	NA	537.56
	5/9/2011	579.25	41.53	NA	537.72
	5/10/2011	579.25	41.92	NA	537.33
	5/13/2011	579.25	46.98	NA	532.27
	5/16/2011	579.25	41.25	NA	538.00
	5/17/2011	579.25	40.87	NA	538.38
	5/18/2011	579.25	41.03	NA	538.22
	5/19/2011	579.25	40.36	NA	538.89
	5/20/2011	579.25	39.98	NA	539.27
	5/24/2011	579.25	40.11	NA	539.14
MW-128A	4/26/2011	561.55	37.41	NA	524.14
	4/27/2011	561.55	37.38	NA	524.17
	4/28/2011	561.55	37.32	NA	524.23
	4/29/2011	561.55	37.39	NA	524.16
	5/2/2011	561.55	37.21	NA	524.34
	5/3/2011	561.55	37.17	NA	524.38
	5/6/2011	561.55	37.10	NA	524.45
	5/9/2011	561.55	37.01	NA	524.54
	5/10/2011	561.55	36.97	NA	524.58
	5/13/2011	561.55	36.90	NA	524.65
	5/16/2011	561.55	36.80	NA	524.75
	5/17/2011	561.55	36.65	NA	524.90
	5/18/2011	561.55	36.11	NA	525.44
	5/19/2011	561.55	36.85	NA	524.70
	5/20/2011	561.55	36.74	NA	524.81
5/26/2011	561.55	36.66	NA	524.89	
MW-128B	4/26/2011	561.18	25.87	NA	535.31
	4/27/2011	561.18	25.81	NA	535.37
	4/28/2011	561.18	25.71	NA	535.47
	4/29/2011	561.18	25.69	NA	535.49
	5/2/2011	561.18	25.54	NA	535.64
	5/3/2011	561.18	25.43	NA	535.75
	5/6/2011	561.18	25.27	NA	535.91
	5/9/2011	561.18	25.10	NA	536.08
	5/10/2011	561.18	25.04	NA	536.14
	5/13/2011	561.18	24.94	NA	536.24
	5/16/2011	561.18	24.75	NA	536.43
	5/17/2011	561.18	24.39	NA	536.79
	5/18/2011	561.18	24.15	NA	537.03
	5/19/2011	561.18	24.58	NA	536.60
5/20/2011	561.18	24.56	NA	536.62	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-128B	5/26/2011	561.18	24.23	NA	536.95
MW-128C (Top Zone)	4/25/2011	564.09	21.64	NA	542.45
	4/26/2011	564.09	21.35	NA	542.74
	4/27/2011	564.09	21.45	NA	542.64
	4/28/2011	564.09	21.31	NA	542.78
	4/29/2011	564.09	21.27	NA	542.82
	5/2/2011	564.09	21.03	NA	543.06
	5/3/2011	564.09	20.90	NA	543.19
	5/6/2011	564.09	20.69	NA	543.40
	5/9/2011	564.09	20.42	NA	543.67
	5/10/2011	564.09	20.38	NA	543.71
	5/13/2011	564.09	20.17	NA	543.92
	5/16/2011	564.09	19.95	NA	544.14
	5/17/2011	564.09	20.07	NA	544.02
	5/18/2011	564.09	19.14	NA	544.95
	5/19/2011	564.09	19.88	NA	544.21
	5/20/2011	564.09	19.77	NA	544.32
5/23/2011	564.09	19.54	NA	544.55	
MW-128C (Middle Zone)	4/25/2011	564.09	3.11	NA	560.98
	4/26/2011	564.09	21.39	NA	542.70
	4/27/2011	564.09	21.25	NA	542.84
	4/28/2011	564.09	21.15	NA	542.94
	4/29/2011	564.09	21.04	NA	543.05
	5/2/2011	564.09	20.87	NA	543.22
	5/3/2011	564.09	20.69	NA	543.40
	5/6/2011	564.09	20.06	NA	544.03
	5/9/2011	564.09	18.97	NA	545.12
	5/10/2011	564.09	18.81	NA	545.28
	5/13/2011	564.09	18.49	NA	545.60
	5/16/2011	564.09	18.45	NA	545.64
	5/17/2011	564.09	18.36	NA	545.73
	5/18/2011	564.09	18.00	NA	546.09
5/19/2011	564.09	18.17	NA	545.92	
5/20/2011	564.09	18.11	NA	545.98	
5/23/2011	564.09	18.26	NA	545.83	
MW-131A	4/13/2011	526.33	8.72	NA	517.61
	4/14/2011	526.33	8.73	NA	517.60
	4/15/2011	526.33	8.75	NA	517.58
	4/18/2011	526.33	8.34	NA	517.99
	4/19/2011	526.33	8.35	NA	517.98
	4/20/2011	526.33	8.25	NA	518.08
	4/21/2011	526.33	8.35	NA	517.98
	4/22/2011	526.33	8.35	NA	517.98
	4/25/2011	526.33	8.27	NA	518.06
	4/26/2011	526.33	8.27	NA	518.06

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-131A	4/27/2011	526.33	8.29	NA	518.04
	4/28/2011	526.33	8.26	NA	518.07
	4/29/2011	526.33	8.27	NA	518.06
	5/2/2011	526.33	8.32	NA	518.01
	5/3/2011	526.33	8.34	NA	517.99
	5/6/2011	526.33	8.35	NA	517.98
	5/9/2011	526.33	8.40	NA	517.93
	5/10/2011	526.33	8.41	NA	517.92
	5/13/2011	526.33	8.50	NA	517.83
	5/16/2011	526.33	8.11	NA	518.22
	5/17/2011	526.33	8.06	NA	518.27
	5/18/2011	526.33	8.10	NA	518.23
	5/19/2011	526.33	7.62	NA	518.71
	5/20/2011	526.33	7.47	NA	518.86
5/26/2011	526.33	7.84	NA	518.49	
MW-131B	4/13/2011	526.31	8.29	NA	518.02
	4/14/2011	526.31	8.45	NA	517.86
	4/15/2011	526.31	8.49	NA	517.82
	4/18/2011	526.31	8.03	NA	518.28
	4/19/2011	526.31	8.00	NA	518.31
	4/20/2011	526.31	7.94	NA	518.37
	4/21/2011	526.31	8.03	NA	518.28
	4/22/2011	526.31	8.00	NA	518.31
	4/25/2011	526.31	7.94	NA	518.37
	4/26/2011	526.31	7.91	NA	518.40
	4/27/2011	526.31	7.92	NA	518.39
	4/28/2011	526.31	7.86	NA	518.45
	4/29/2011	526.31	8.15	NA	518.16
	5/2/2011	526.31	7.97	NA	518.34
	5/3/2011	526.31	7.98	NA	518.33
	5/6/2011	526.31	8.04	NA	518.27
	5/9/2011	526.31	8.09	NA	518.22
	5/10/2011	526.31	8.05	NA	518.26
	5/13/2011	526.31	8.17	NA	518.14
	5/16/2011	526.31	8.12	NA	518.19
5/17/2011	526.31	7.99	NA	518.32	
5/18/2011	526.31	7.78	NA	518.53	
5/19/2011	526.31	7.60	NA	518.71	
5/20/2011	526.31	7.25	NA	519.06	
5/26/2011	526.31	7.43	NA	518.88	
MW-131C (Top Zone)	4/13/2011	526.07	6.78	NA	519.29
	4/13/2011	526.07	6.92	NA	519.15
	4/14/2011	526.07	7.06	NA	519.01
	4/15/2011	526.07	7.01	NA	519.06
	4/18/2011	526.07	6.77	NA	519.30

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-131C (Top Zone)	4/19/2011	526.07	7.24	NA	518.83
	4/20/2011	526.07	6.26	NA	519.81
	4/21/2011	526.07	5.56	NA	520.51
	4/22/2011	526.07	6.29	NA	519.78
	4/25/2011	526.07	5.87	NA	520.20
	4/26/2011	526.07	7.34	NA	518.73
	4/27/2011	526.07	6.16	NA	519.91
	4/28/2011	526.07	6.34	NA	519.73
	4/29/2011	526.07	6.35	NA	519.72
	5/2/2011	526.07	8.91	NA	517.16
	5/3/2011	526.07	7.51	NA	518.56
	5/6/2011	526.07	6.60	NA	519.47
	5/9/2011	526.07	7.28	NA	518.79
	5/10/2011	526.07	6.94	NA	519.13
	5/13/2011	526.07	7.20	NA	518.87
	5/16/2011	526.07	7.41	NA	518.66
	5/17/2011	526.07	6.94	NA	519.13
	5/18/2011	526.07	7.05	NA	519.02
	5/19/2011	526.07	6.65	NA	519.42
	5/20/2011	526.07	4.02	NA	522.05
5/25/2011	526.07	4.29	NA	521.78	
MW-131C (Middle Zone)	4/13/2011	526.07	6.94	NA	519.13
	4/13/2011	526.07	7.01	NA	519.06
	4/14/2011	526.07	7.11	NA	518.96
	4/15/2011	526.07	7.02	NA	519.05
	4/18/2011	526.07	6.80	NA	519.27
	4/19/2011	526.07	7.27	NA	518.80
	4/20/2011	526.07	6.25	NA	519.82
	4/21/2011	526.07	5.65	NA	520.42
	4/22/2011	526.07	6.30	NA	519.77
	4/25/2011	526.07	5.87	NA	520.20
	4/26/2011	526.07	7.35	NA	518.72
	4/27/2011	526.07	6.17	NA	519.90
	4/28/2011	526.07	6.36	NA	519.71
	4/29/2011	526.07	6.41	NA	519.66
	5/2/2011	526.07	8.92	NA	517.15
	5/3/2011	526.07	7.52	NA	518.55
	5/6/2011	526.07	6.59	NA	519.48
	5/9/2011	526.07	7.27	NA	518.80
	5/10/2011	526.07	6.94	NA	519.13
	5/13/2011	526.07	7.21	NA	518.86
5/16/2011	526.07	7.40	NA	518.67	
5/17/2011	526.07	6.92	NA	519.15	
5/18/2011	526.07	7.04	NA	519.03	
5/19/2011	526.07	6.67	NA	519.40	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-131C (Middle Zone)	5/20/2011	526.07	4.04	NA	522.03
	5/25/2011	526.07	4.28	NA	521.79
MW-133A	4/26/2011	549.05	16.96	NA	532.09
	4/27/2011	549.05	16.96	NA	532.09
	4/28/2011	549.05	16.92	NA	532.13
	4/29/2011	549.05	16.91	NA	532.14
	5/2/2011	549.05	17.04	NA	532.01
	5/3/2011	549.05	17.02	NA	532.03
	5/6/2011	549.05	17.11	NA	531.94
	5/9/2011	549.05	17.20	NA	531.85
	5/10/2011	549.05	17.16	NA	531.89
	5/13/2011	549.05	17.32	NA	531.73
	5/16/2011	549.05	17.23	NA	531.82
	5/17/2011	549.05	17.24	NA	531.81
	5/18/2011	549.05	17.19	NA	531.86
	5/19/2011	549.05	17.07	NA	531.98
	5/20/2011	549.05	17.05	NA	532.00
5/26/2011	549.05	16.48	NA	532.57	
MW-133B	4/26/2011	549.22	16.40	NA	532.82
	4/27/2011	549.22	16.39	NA	532.83
	4/28/2011	549.22	16.36	NA	532.86
	4/29/2011	549.22	16.39	NA	532.83
	5/2/2011	549.22	16.49	NA	532.73
	5/3/2011	549.22	16.44	NA	532.78
	5/6/2011	549.22	16.54	NA	532.68
	5/9/2011	549.22	16.79	NA	532.43
	5/10/2011	549.22	16.58	NA	532.64
	5/13/2011	549.22	16.70	NA	532.52
	5/16/2011	549.22	16.70	NA	532.52
	5/17/2011	549.22	16.58	NA	532.64
	5/18/2011	549.22	16.54	NA	532.68
	5/19/2011	549.22	16.51	NA	532.71
	5/20/2011	549.22	16.46	NA	532.76
5/26/2011	549.22	15.91	NA	533.31	
MW-133C (Top Zone)	4/25/2011	551.08	19.41	NA	531.67
	4/26/2011	551.08	19.24	NA	531.84
	4/27/2011	551.08	19.24	NA	531.84
	4/28/2011	551.08	19.21	NA	531.87
	4/29/2011	551.08	19.26	NA	531.82
	5/2/2011	551.08	19.34	NA	531.74
	5/3/2011	551.08	19.31	NA	531.77
	5/6/2011	551.08	19.40	NA	531.68
	5/9/2011	551.08	19.47	NA	531.61
	5/10/2011	551.08	19.48	NA	531.60
	5/13/2011	551.08	19.61	NA	531.47

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-133C (Top Zone)	5/16/2011	551.08	19.51	NA	531.57
	5/17/2011	551.08	19.43	NA	531.65
	5/18/2011	551.08	19.39	NA	531.69
	5/19/2011	551.08	19.25	NA	531.83
	5/20/2011	551.08	18.98	NA	532.10
	5/25/2011	551.08	18.69	NA	532.39
MW-133C (Middle Zone)	4/25/2011	551.08	20.13	NA	530.95
	4/26/2011	551.08	21.94	NA	529.14
	4/27/2011	551.08	22.27	NA	528.81
	4/28/2011	551.08	22.30	NA	528.78
	4/29/2011	551.08	22.32	NA	528.76
	5/2/2011	551.08	22.46	NA	528.62
	5/3/2011	551.08	22.22	NA	528.86
	5/6/2011	551.08	22.00	NA	529.08
	5/9/2011	551.08	22.16	NA	528.92
	5/10/2011	551.08	22.24	NA	528.84
	5/13/2011	551.08	22.29	NA	528.79
	5/16/2011	551.08	22.00	NA	529.08
	5/17/2011	551.08	21.86	NA	529.22
	5/18/2011	551.08	21.81	NA	529.27
	5/19/2011	551.08	21.45	NA	529.63
	5/20/2011	551.08	21.00	NA	530.08
5/25/2011	551.08	20.62	NA	530.46	
MW-141A	4/12/2011	586.34	35.28	NA	551.06
	4/13/2011	586.34	35.26	NA	551.08
	4/14/2011	586.34	35.27	NA	551.07
	4/15/2011	586.34	35.28	NA	551.06
	4/18/2011	586.34	35.19	NA	551.15
	4/19/2011	586.34	35.17	NA	551.17
	4/20/2011	586.34	35.12	NA	551.22
	4/21/2011	586.34	35.20	NA	551.14
	4/22/2011	586.34	35.15	NA	551.19
	4/25/2011	586.34	35.07	NA	551.27
	4/26/2011	586.34	35.04	NA	551.30
	4/27/2011	586.34	35.03	NA	551.31
	4/28/2011	586.34	34.95	NA	551.39
	4/29/2011	586.34	34.88	NA	551.46
	5/2/2011	586.34	34.92	NA	551.42
	5/3/2011	586.34	34.87	NA	551.47
	5/6/2011	586.34	34.92	NA	551.42
	5/9/2011	586.34	34.80	NA	551.54
	5/10/2011	586.34	34.73	NA	551.61
5/13/2011	586.34	35.22	NA	551.12	
5/16/2011	586.34	34.61	NA	551.73	
5/17/2011	586.34	34.98	NA	551.36	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-141A	5/18/2011	586.34	34.12	NA	552.22
	5/19/2011	586.34	34.10	NA	552.24
	5/20/2011	586.34	34.03	NA	552.31
	5/26/2011	586.34	34.46	NA	551.88
MW-141B	4/12/2011	586.42	34.61	NA	551.81
	4/13/2011	586.42	34.55	NA	551.87
	4/14/2011	586.42	34.69	NA	551.73
	4/15/2011	586.42	34.57	NA	551.85
	4/18/2011	586.42	34.50	NA	551.92
	4/19/2011	586.42	34.49	NA	551.93
	4/20/2011	586.42	34.45	NA	551.97
	4/21/2011	586.42	34.48	NA	551.94
	4/22/2011	586.42	34.44	NA	551.98
	4/25/2011	586.42	34.34	NA	552.08
	4/26/2011	586.42	34.31	NA	552.11
	4/27/2011	586.42	34.30	NA	552.12
	4/28/2011	586.42	34.26	NA	552.16
	4/29/2011	586.42	34.11	NA	552.31
	5/2/2011	586.42	34.20	NA	552.22
	5/3/2011	586.42	34.17	NA	552.25
	5/6/2011	586.42	34.29	NA	552.13
	5/9/2011	586.42	34.22	NA	552.20
	5/10/2011	586.42	34.05	NA	552.37
	5/13/2011	586.42	35.07	NA	551.35
	5/16/2011	586.42	33.90	NA	552.52
	5/17/2011	586.42	34.21	NA	552.21
	5/18/2011	586.42	33.98	NA	552.44
	5/19/2011	586.42	33.79	NA	552.63
5/20/2011	586.42	33.82	NA	552.60	
5/26/2011	586.42	33.72	NA	552.70	
MW-141C (Top Zone)	4/12/2011	586.56	34.30	NA	552.26
	4/12/2011	586.56	34.34	NA	552.22
	4/13/2011	586.56	34.60	NA	551.96
	4/14/2011	586.56	37.04	NA	549.52
	4/15/2011	586.56	34.66	NA	551.90
	4/18/2011	586.56	34.52	NA	552.04
	4/19/2011	586.56	34.50	NA	552.06
	4/20/2011	586.56	34.49	NA	552.07
	4/21/2011	586.56	34.53	NA	552.03
	4/22/2011	586.56	34.47	NA	552.09
	4/25/2011	586.56	34.35	NA	552.21
	4/26/2011	586.56	34.32	NA	552.24
	4/27/2011	586.56	34.32	NA	552.24
	4/28/2011	586.56	34.29	NA	552.27
4/29/2011	586.56	34.26	NA	552.30	

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-141C (Top Zone)	5/2/2011	586.56	34.24	NA	552.32
	5/3/2011	586.56	34.24	NA	552.32
	5/6/2011	586.56	34.32	NA	552.24
	5/9/2011	586.56	34.11	NA	552.45
	5/10/2011	586.56	34.08	NA	552.48
	5/13/2011	586.56	34.06	NA	552.50
	5/16/2011	586.56	33.98	NA	552.58
	5/17/2011	586.56	34.00	NA	552.56
	5/18/2011	586.56	34.02	NA	552.54
	5/19/2011	586.56	33.91	NA	552.65
	5/20/2011	586.56	33.87	NA	552.69
	5/24/2011	586.56	33.78	NA	552.78
MW-141C (Middle Zone)	4/12/2011	586.56	34.53	NA	552.03
	4/12/2011	586.56	34.48	NA	552.08
	4/13/2011	586.56	34.61	NA	551.95
	4/14/2011	586.56	36.96	NA	549.60
	4/15/2011	586.56	34.69	NA	551.87
	4/18/2011	586.56	34.55	NA	552.01
	4/19/2011	586.56	34.52	NA	552.04
	4/20/2011	586.56	34.51	NA	552.05
	4/21/2011	586.56	34.55	NA	552.01
	4/22/2011	586.56	34.47	NA	552.09
	4/25/2011	586.56	34.35	NA	552.21
	4/26/2011	586.56	34.31	NA	552.25
	4/27/2011	586.56	34.32	NA	552.24
	4/28/2011	586.56	34.29	NA	552.27
	4/29/2011	586.56	34.27	NA	552.29
	5/2/2011	586.56	34.24	NA	552.32
	5/3/2011	586.56	34.25	NA	552.31
	5/6/2011	586.56	34.34	NA	552.22
	5/9/2011	586.56	34.13	NA	552.43
	5/10/2011	586.56	34.15	NA	552.41
	5/13/2011	586.56	34.08	NA	552.48
	5/16/2011	586.56	33.97	NA	552.59
	5/17/2011	586.56	34.00	NA	552.56
	5/18/2011	586.56	34.03	NA	552.53
5/19/2011	586.56	33.92	NA	552.64	
5/20/2011	586.56	33.86	NA	552.70	
5/24/2011	586.56	33.76	NA	552.80	
MW-173B	4/22/2011	589.76	44.91	NA	544.85
	4/25/2011	589.76	44.58	NA	545.18
	4/26/2011	589.76	44.31	NA	545.45
	4/27/2011	589.76	44.55	NA	545.21
	4/28/2011	589.76	44.74	NA	545.02
	4/29/2011	589.76	43.95	NA	545.81

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-173B	5/2/2011	589.76	43.93	NA	545.83
	5/3/2011	589.76	43.98	NA	545.78
	5/6/2011	589.76	44.62	NA	545.14
	5/9/2011	589.76	41.65	NA	548.11
	5/10/2011	589.76	42.20	NA	547.56
	5/13/2011	589.76	41.71	NA	548.05
	5/16/2011	589.76	43.54	NA	546.22
	5/17/2011	589.76	41.59	NA	548.17
	5/18/2011	589.76	41.52	NA	548.24
	5/19/2011	589.76	41.60	NA	548.16
	5/20/2011	589.76	41.48	NA	548.28
	5/26/2011	589.76	43.15	NA	546.61
MW-173C (Top Zone)	4/21/2011	590.29	48.17	NA	542.12
	4/22/2011	590.29	52.17	NA	538.12
	4/25/2011	590.29	46.66	NA	543.63
	4/26/2011	590.29	50.32	NA	539.97
	4/27/2011	590.29	52.64	NA	537.65
	4/28/2011	590.29	51.11	NA	539.18
	4/29/2011	590.29	50.18	NA	540.11
	5/2/2011	590.29	47.27	NA	543.02
	5/3/2011	590.29	48.80	NA	541.49
	5/6/2011	590.29	51.05	NA	539.24
	5/9/2011	590.29	46.69	NA	543.60
	5/10/2011	590.29	46.73	NA	543.56
	5/13/2011	590.29	53.78	NA	536.51
	5/16/2011	590.29	47.54	NA	542.75
	5/17/2011	590.29	46.60	NA	543.69
	5/18/2011	590.29	49.44	NA	540.85
	5/19/2011	590.29	48.09	NA	542.20
	5/20/2011	590.29	50.97	NA	539.32
5/25/2011	590.29	49.27	NA	541.02	
MW-173C (Middle Zone)	4/21/2011	590.29	48.35	NA	541.94
	4/22/2011	590.29	52.11	NA	538.18
	4/25/2011	590.29	46.60	NA	543.69
	4/26/2011	590.29	50.24	NA	540.05
	4/27/2011	590.29	52.61	NA	537.68
	4/28/2011	590.29	51.02	NA	539.27
	4/29/2011	590.29	50.12	NA	540.17
	5/2/2011	590.29	47.21	NA	543.08
	5/3/2011	590.29	48.72	NA	541.57
	5/6/2011	590.29	50.98	NA	539.31
	5/9/2011	590.29	46.66	NA	543.63
	5/10/2011	590.29	46.85	NA	543.44
	5/13/2011	590.29	53.80	NA	536.49
	5/16/2011	590.29	47.48	NA	542.81

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Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-173C (Middle Zone)	5/17/2011	590.29	46.58	NA	543.71
	5/18/2011	590.29	49.56	NA	540.73
	5/19/2011	590.29	48.03	NA	542.26
	5/20/2011	590.29	50.93	NA	539.36
	5/25/2011	590.29	49.20	NA	541.09
MW-174B	4/20/2011	570.85	11.60	NA	559.25
	4/21/2011	570.85	11.69	NA	559.16
	4/22/2011	570.85	11.70	NA	559.15
	4/25/2011	570.85	11.81	NA	559.04
	4/26/2011	570.85	11.79	NA	559.06
	4/27/2011	570.85	12.83	NA	558.02
	4/28/2011	570.85	11.85	NA	559.00
	4/29/2011	570.85	11.90	NA	558.95
	5/2/2011	570.85	11.96	NA	558.89
	5/3/2011	570.85	11.98	NA	558.87
	5/6/2011	570.85	12.02	NA	558.83
	5/9/2011	570.85	12.14	NA	558.71
	5/10/2011	570.85	12.10	NA	558.75
	5/13/2011	570.85	12.11	NA	558.74
	5/16/2011	570.85	12.05	NA	558.80
	5/17/2011	570.85	11.91	NA	558.94
	5/18/2011	570.85	11.74	NA	559.11
	5/19/2011	570.85	11.80	NA	559.05
	5/20/2011	570.85	11.70	NA	559.15
	5/26/2011	570.85	11.79	NA	559.06
MW-174C (Top Zone)	4/19/2011	570.31	0.41	NA	569.90
	4/20/2011	570.31	11.58	NA	558.73
	4/21/2011	570.31	11.93	NA	558.38
	4/22/2011	570.31	11.87	NA	558.44
	4/25/2011	570.31	11.65	NA	558.66
	4/26/2011	570.31	11.63	NA	558.68
	4/27/2011	570.31	12.12	NA	558.19
	4/28/2011	570.31	11.58	NA	558.73
	4/29/2011	570.31	11.60	NA	558.71
	5/2/2011	570.31	11.60	NA	558.71
	5/3/2011	570.31	11.58	NA	558.73
	5/6/2011	570.31	11.52	NA	558.79
	5/9/2011	570.31	11.48	NA	558.83
	5/10/2011	570.31	11.47	NA	558.84
	5/13/2011	570.31	11.12	NA	559.19
	5/16/2011	570.31	11.32	NA	558.99
	5/17/2011	570.31	11.40	NA	558.91
	5/18/2011	570.31	10.98	NA	559.33
	5/19/2011	570.31	11.24	NA	559.07
	5/20/2011	570.31	11.28	NA	559.03

Table 2
Manual Groundwater Gauging Data
 Inactive Exxon Facility # 28077
 14528 Jarrettsville Pike
 Phoenix, MD

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-174C (Top Zone)	5/23/2011	570.31	11.11	NA	559.20
MW-174C (Middle Zone)	4/19/2011	570.31	1.16	NA	569.15
	4/20/2011	570.31	11.74	NA	558.57
	4/21/2011	570.31	12.06	NA	558.25
	4/22/2011	570.31	12.02	NA	558.29
	4/25/2011	570.31	11.89	NA	558.42
	4/26/2011	570.31	11.81	NA	558.50
	4/27/2011	570.31	12.26	NA	558.05
	4/28/2011	570.31	11.81	NA	558.50
	4/29/2011	570.31	11.76	NA	558.55
	5/2/2011	570.31	11.88	NA	558.43
	5/3/2011	570.31	11.88	NA	558.43
	5/6/2011	570.31	11.75	NA	558.56
	5/9/2011	570.31	11.73	NA	558.58
	5/10/2011	570.31	11.88	NA	558.43
	5/13/2011	570.31	11.62	NA	558.69
	5/16/2011	570.31	11.54	NA	558.77
	5/17/2011	570.31	11.53	NA	558.78
	5/18/2011	570.31	11.06	NA	559.25
	5/19/2011	570.31	11.31	NA	559.00
	5/20/2011	570.31	11.40	NA	558.91
5/23/2011	570.31	11.42	NA	558.89	
MW-175C (Top Zone)	4/14/2011	590.15	38.86	NA	551.29
	4/14/2011	590.15	38.85	NA	551.30
	4/15/2011	590.15	38.90	NA	551.25
	4/18/2011	590.15	38.54	NA	551.61
	4/19/2011	590.15	38.32	NA	551.83
	4/20/2011	590.15	38.41	NA	551.74
	4/21/2011	590.15	38.30	NA	551.85
	4/22/2011	590.15	38.25	NA	551.90
	4/25/2011	590.15	38.03	NA	552.12
	4/26/2011	590.15	37.91	NA	552.24
	4/27/2011	590.15	37.90	NA	552.25
	4/28/2011	590.15	37.83	NA	552.32
	4/29/2011	590.15	37.91	NA	552.24
	5/2/2011	590.15	37.77	NA	552.38
	5/3/2011	590.15	37.72	NA	552.43
	5/6/2011	590.15	37.78	NA	552.37
	5/9/2011	590.15	37.70	NA	552.45
5/10/2011	590.15	37.68	NA	552.47	
5/13/2011	590.15	37.67	NA	552.48	
5/16/2011	590.15	37.60	NA	552.55	
5/17/2011	590.15	37.64	NA	552.51	
5/18/2011	590.15	37.00	NA	553.15	
5/19/2011	590.15	37.37	NA	552.78	

Table 2
Manual Groundwater Gauging Data
 Inactive Exxon Facility # 28077
 14528 Jarrettsville Pike
 Phoenix, MD

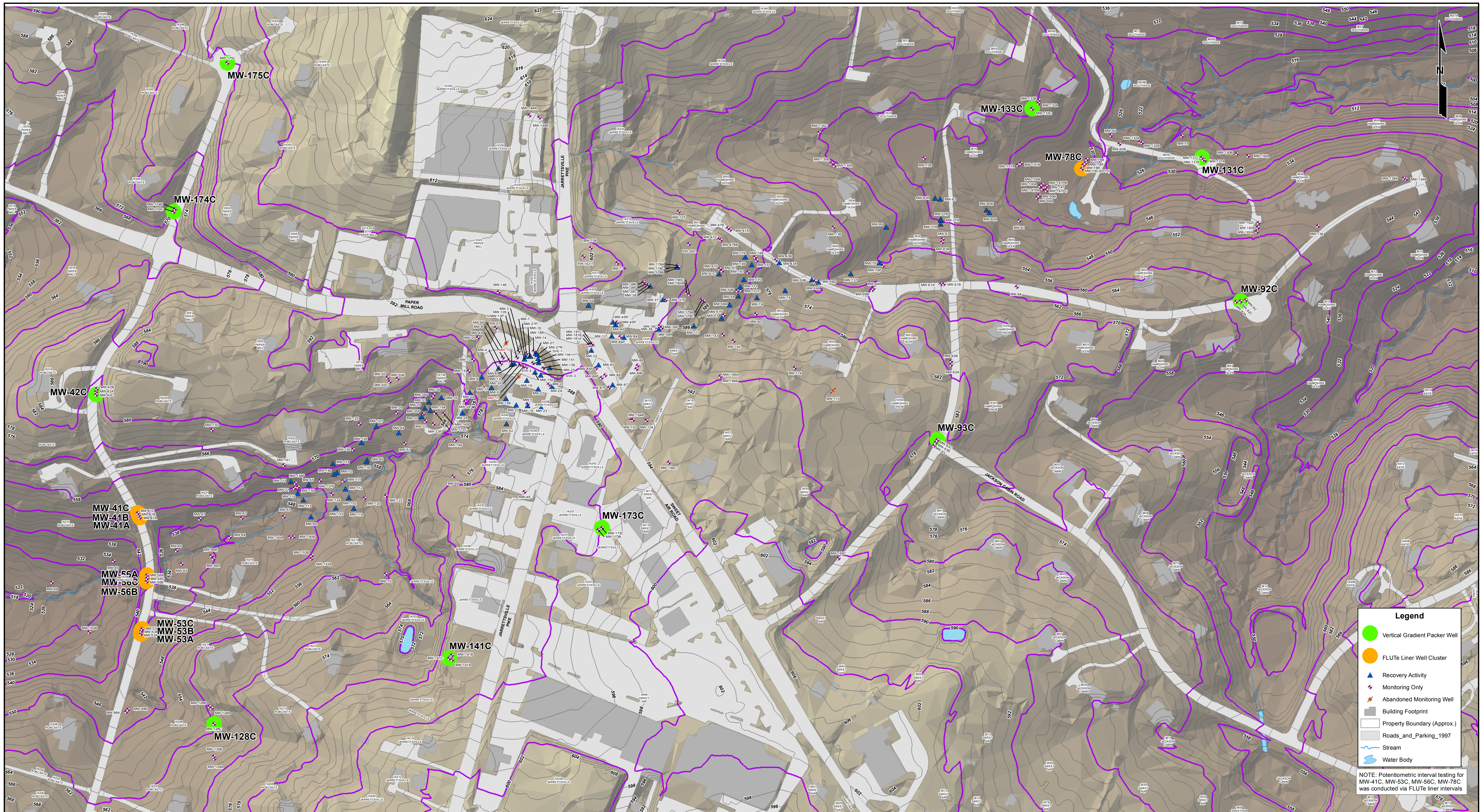
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Correction Factor (feet)	Corrected GW Elevation (feet)
MW-175C (Top Zone)	5/20/2011	590.15	37.39	NA	552.76
	5/23/2011	590.15	36.96	NA	553.19
MW-175C (Middle Zone)	4/14/2011	590.15	4.35	NA	585.80
	4/14/2011	590.15	4.38	NA	585.77
	4/15/2011	590.15	24.24	NA	565.91
	4/18/2011	590.15	35.73	NA	554.42
	4/19/2011	590.15	36.15	NA	554.00
	4/20/2011	590.15	36.09	NA	554.06
	4/21/2011	590.15	36.20	NA	553.95
	4/22/2011	590.15	36.30	NA	553.85
	4/25/2011	590.15	36.24	NA	553.91
	4/26/2011	590.15	36.22	NA	553.93
	4/27/2011	590.15	36.22	NA	553.93
	4/28/2011	590.15	36.19	NA	553.96
	4/29/2011	590.15	36.23	NA	553.92
	5/2/2011	590.15	36.31	NA	553.84
	5/3/2011	590.15	36.24	NA	553.91
	5/6/2011	590.15	36.06	NA	554.09
	5/9/2011	590.15	36.00	NA	554.15
	5/10/2011	590.15	36.11	NA	554.04
	5/13/2011	590.15	35.96	NA	554.19
	5/16/2011	590.15	36.00	NA	554.15
	5/17/2011	590.15	35.90	NA	554.25
	5/18/2011	590.15	35.41	NA	554.74
	5/19/2011	590.15	35.75	NA	554.40
5/20/2011	590.15	35.72	NA	554.43	
5/23/2011	590.15	35.57	NA	554.58	

Notes:

NA = Not Applicable

The "correction factor" for the FLUTE wells is the length from the TOC to the top of the FLUTE liner port.

FIGURES

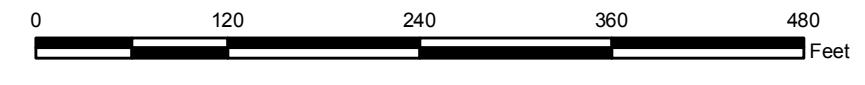


Legend

- Vertical Gradient Packer Well
- FLUTE Liner Well Cluster
- ▲ Recovery Activity
- ◆ Monitoring Only
- ✖ Abandoned Monitoring Well
- Building Footprint
- Property Boundary (Approx.)
- Roads_and_Parking_1997
- ~ Stream
- Water Body

NOTE: Potentiometric interval testing for MW-41C, MW-53C, MW-56C, MW-78C was conducted via FLUTE liner intervals

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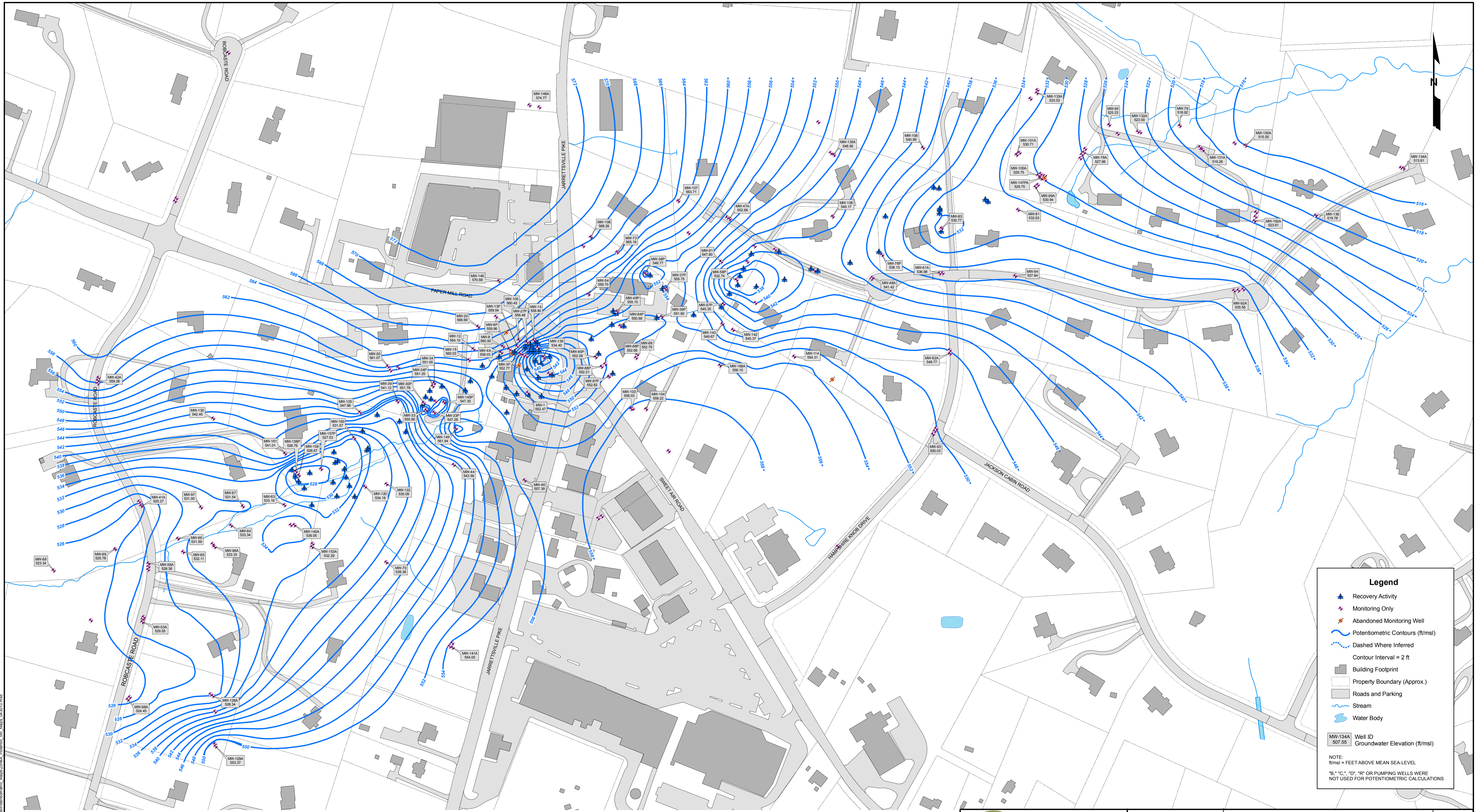
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PROJECT NO.	115434
DRAWN:	06/29/11
DRAWN BY:	B. Myers
CHECKED BY:	S. Rochford
FILE NAME:	

POTENTIOMETRIC INTERVAL TESTING LOCATION MAP

INACTIVE EXXON FACILITY #28077
14258 JARRETTVILLE PIKE
PHOENIX, MARYLAND
BALTIMORE COUNTY

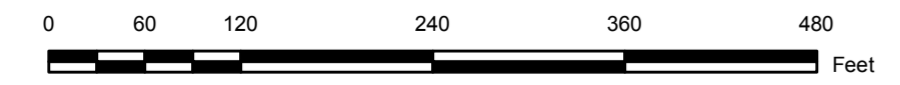


Legend

- Recovery Activity
- Monitoring Only
- Abandoned Monitoring Well
- Potentiometric Contours (ft/msl)
- Dashed Where Inferred
- Contour Interval = 2 ft
- Building Footprint
- Property Boundary (Approx.)
- Roads and Parking
- Stream
- Water Body

MW-134A
507.55 Well ID
507.55 Groundwater Elevation (ft/msl)

NOTE:
ft/msl = FEET ABOVE MEAN SEA-LEVEL
"B," "C," "D," "R" OR PUMPING WELLS WERE NOT USED FOR POTENTIOMETRIC CALCULATIONS



NOTE:
1. Head gradient not necessarily coincident with groundwater flow direction due to bedrock fabric orientation.

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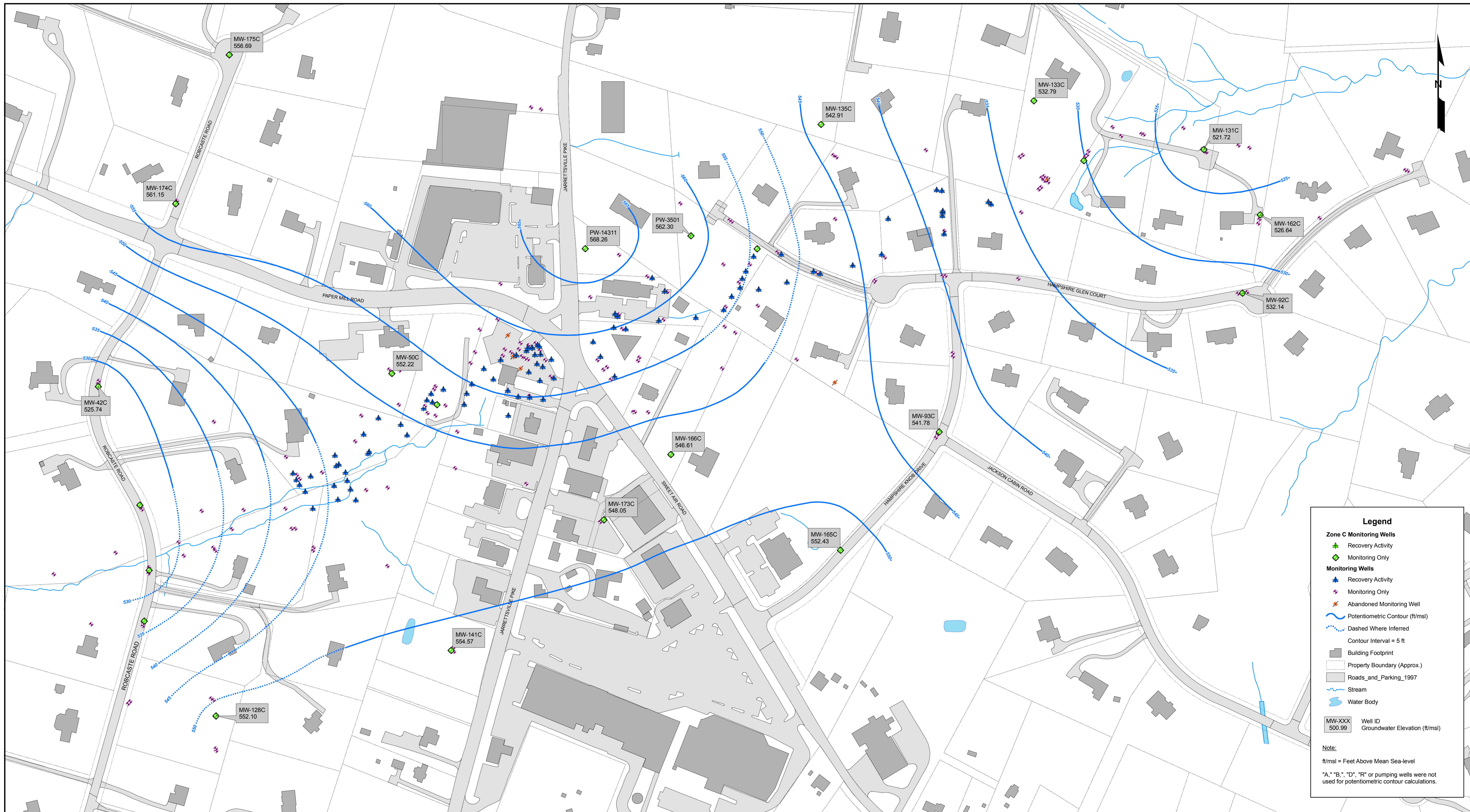
PROJECT NO.	108818
DRAWN:	05/18/10
CHECKED BY:	B. MYERS
FILE NAME:	J. HALE
	J. HALE
	ZoneA_Potential_Slc_Maps_043010.mxd

**APRIL 2010 "A" ZONE
POTENTIOMETRIC SURFACE MAP**

INACTIVE EXXON FACILITY #28077
14258 JARRETTSVILLE PIKE
PHOENIX, MARYLAND
BALTIMORE COUNTY

C:\Projects\050606-8077\Projects\Potential\MapZoneA_Potential_Slc_Maps_043010.mxd

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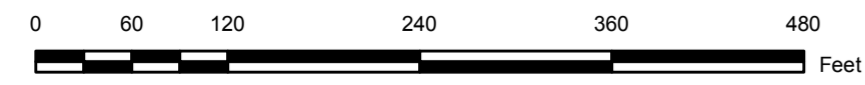


Legend

- Zone C Monitoring Wells**
 - Recovery Activity (Green diamond with cross)
 - Monitoring Only (Green diamond)
- Monitoring Wells**
 - Recovery Activity (Blue triangle)
 - Monitoring Only (Purple diamond)
 - Abandoned Monitoring Well (Red cross)
- Potentiometric Contour (ft/msl) (Solid blue line)
- Dashed Where Inferred (Dashed blue line)
- Contour Interval = 5 ft
- Building Footprint (Grey polygon)
- Property Boundary (Approx.) (Dotted grey line)
- Roads_and_Parking_1997 (Grey line)
- Stream (Blue line)
- Water Body (Light blue area)

MW-XXX Well ID
500.99 Groundwater Elevation (ft/msl)

Note:
ft/msl = Feet Above Mean Sea-level
"A," "B," "D," "R" or pumping wells were not used for potentiometric contour calculations.



- NOTE:**
- FLUTE liner in MW-41C, MW-53C, MW-56C, and MW-78C; April 2010 measurement not available.
 - MW-172C and MW-168 were not included in potentiometric contour interpolation.
 - Head gradient not necessarily coincident with groundwater flow direction due to bedrock fabric orientation.

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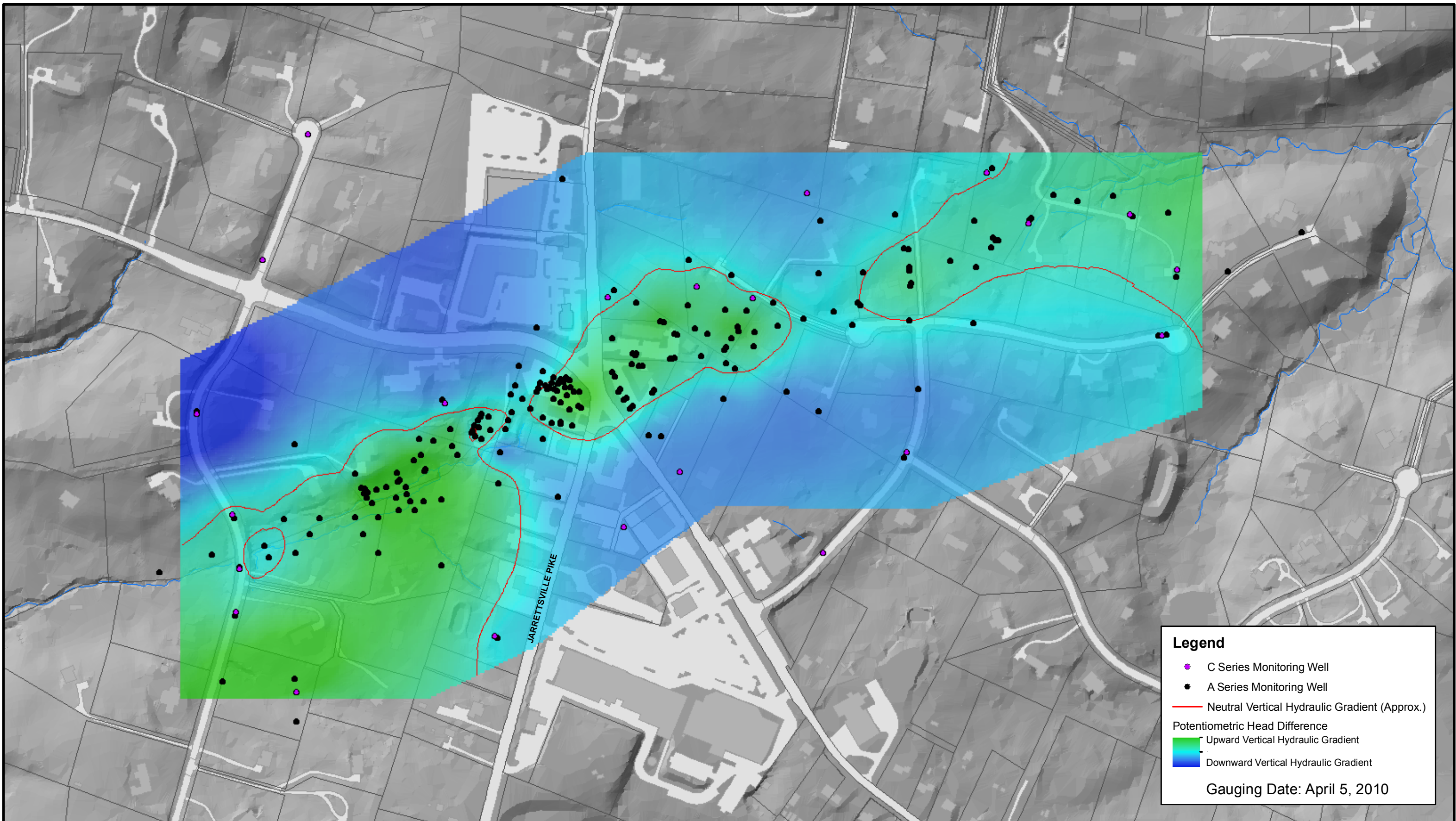
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PROJECT NO.	108818
DRAWN:	05/18/10
CHECKED BY:	B. MYERS
FILE NAME:	J. HALE
	Potentio_Sfc_Maps_042110.mxd

**APRIL 2010 "C" ZONE
POTENTIOMETRIC SURFACE MAP**

INACTIVE EXXON FACILITY #28077
14258 JARRETTSVILLE PIKE
PHOENIX, MARYLAND
BALTIMORE COUNTY



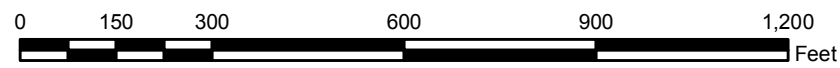
Legend

- C Series Monitoring Well
- A Series Monitoring Well
- Neutral Vertical Hydraulic Gradient (Approx.)

Potentiometric Head Difference

- █ Upward Vertical Hydraulic Gradient
- █ Downward Vertical Hydraulic Gradient

Gauging Date: April 5, 2010



G:\Projects\0507606-8077\Projects\Vert_Interval_Test\Draft_Potentio_Zone_Diff_Calc_042611.mxd

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Cartography By: B. Myers

Date: 07/21/11

POTENTIOMETRIC HEAD DIFFERENCE MAP

INACTIVE EXXON FACILITY #28077
 14258 JARRETTSVILLE PIKE
 PHOENIX, MARYLAND
 BALTIMORE COUNTY

Project Number: 115434

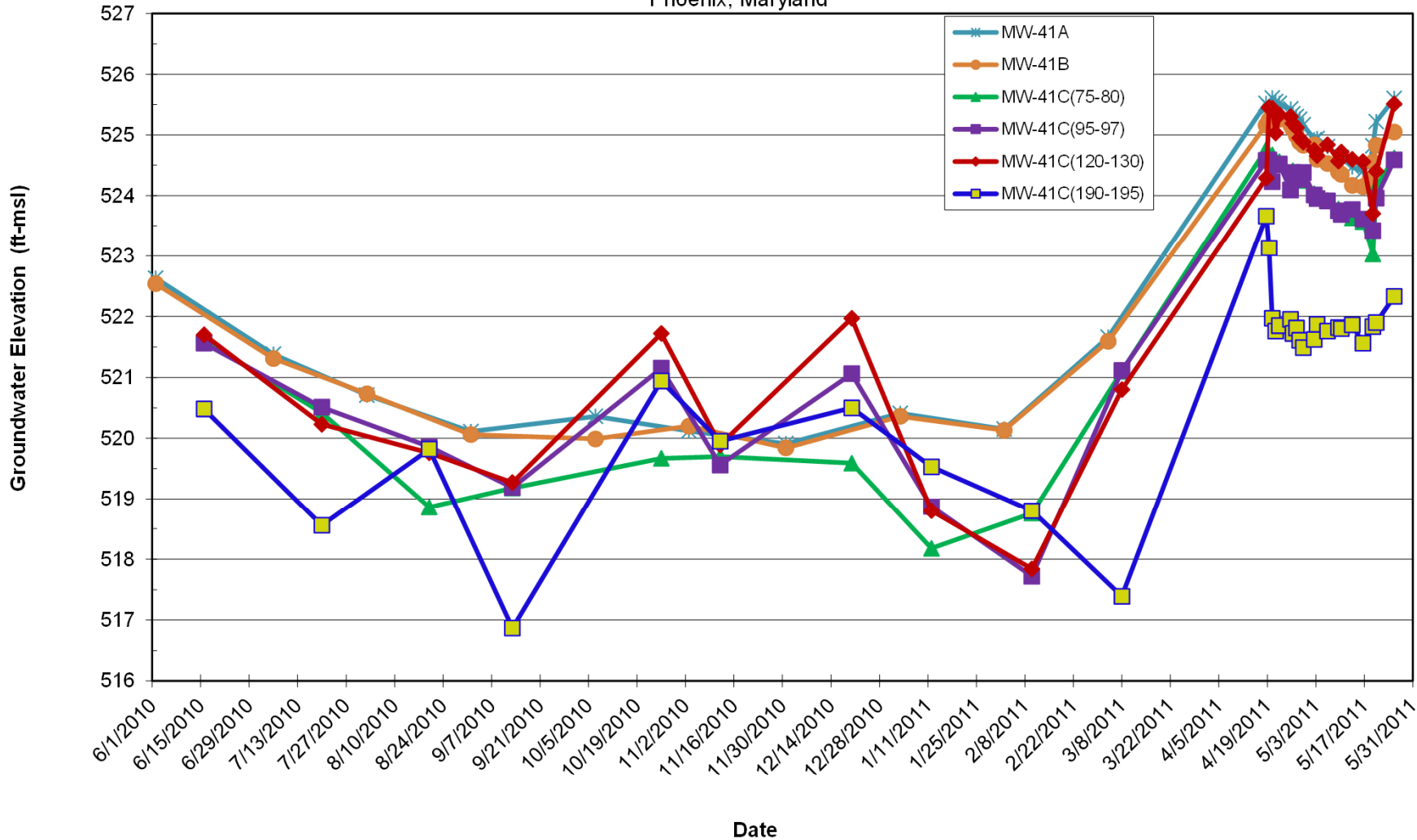
File Name: Zone Diff

Figure
4

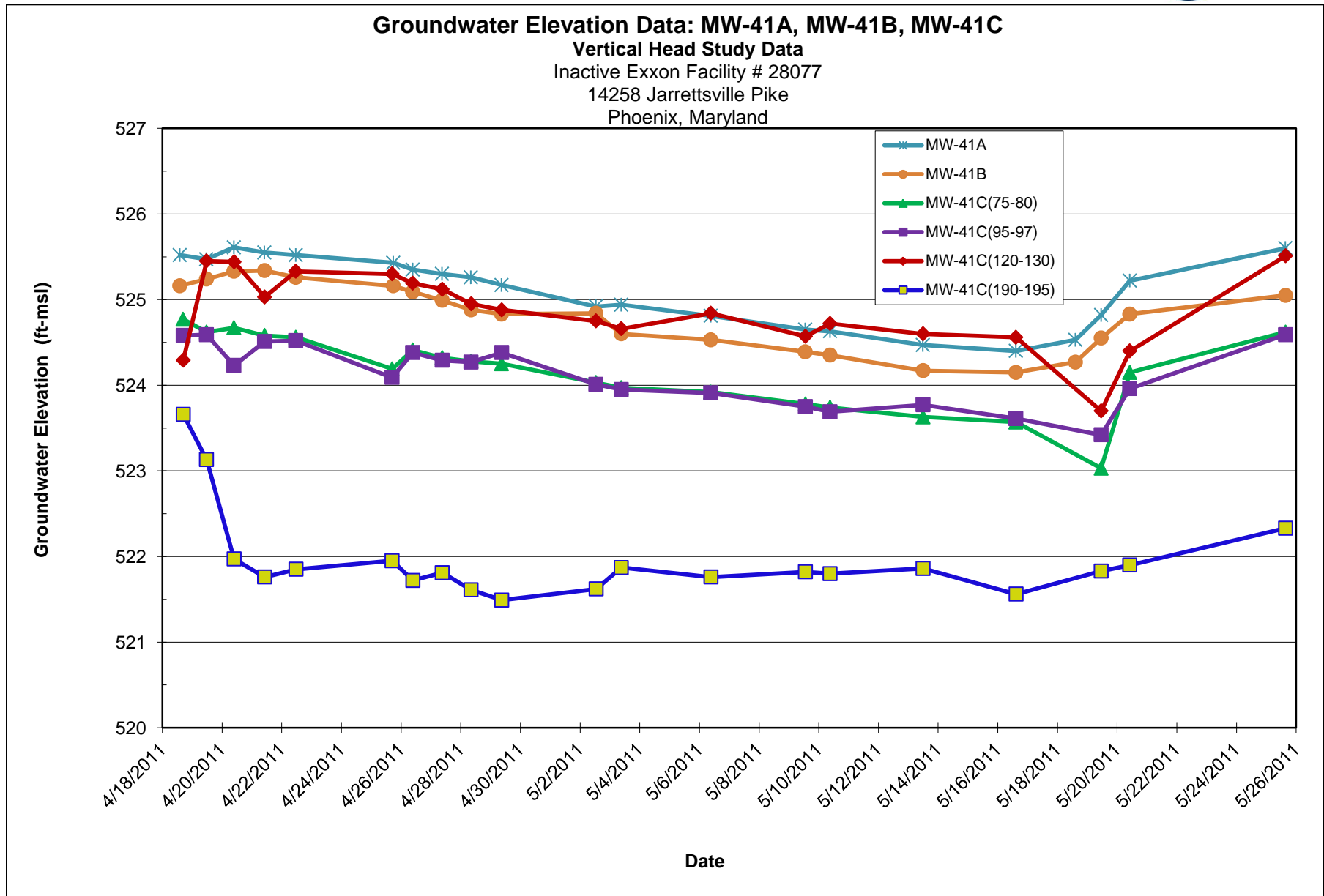
APPENDIX A

Groundwater Elevation Data: MW-41A, MW-41B, MW-41C

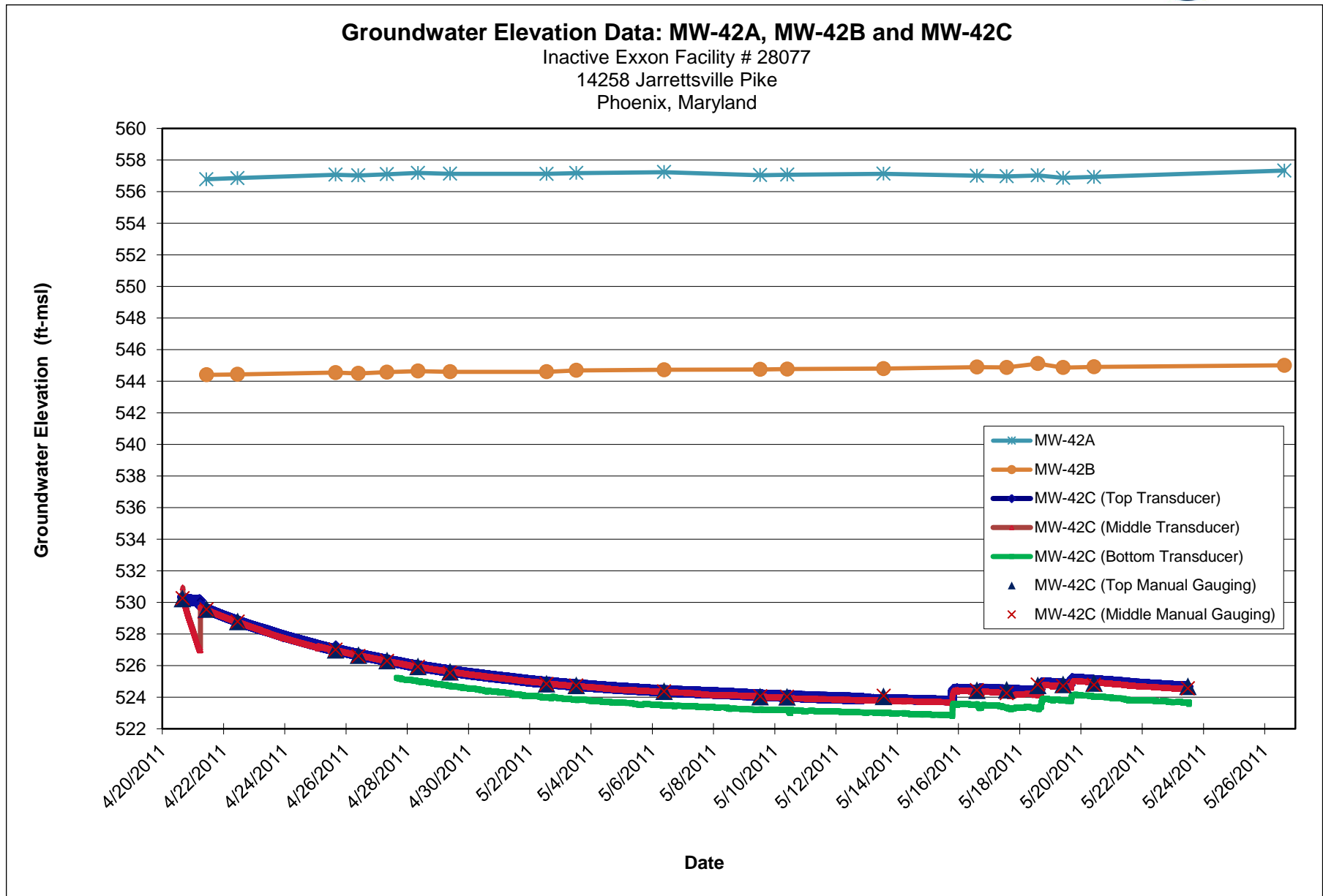
Historical Data
 Inactive Exxon Facility # 28077
 14258 Jarrettsville Pike
 Phoenix, Maryland



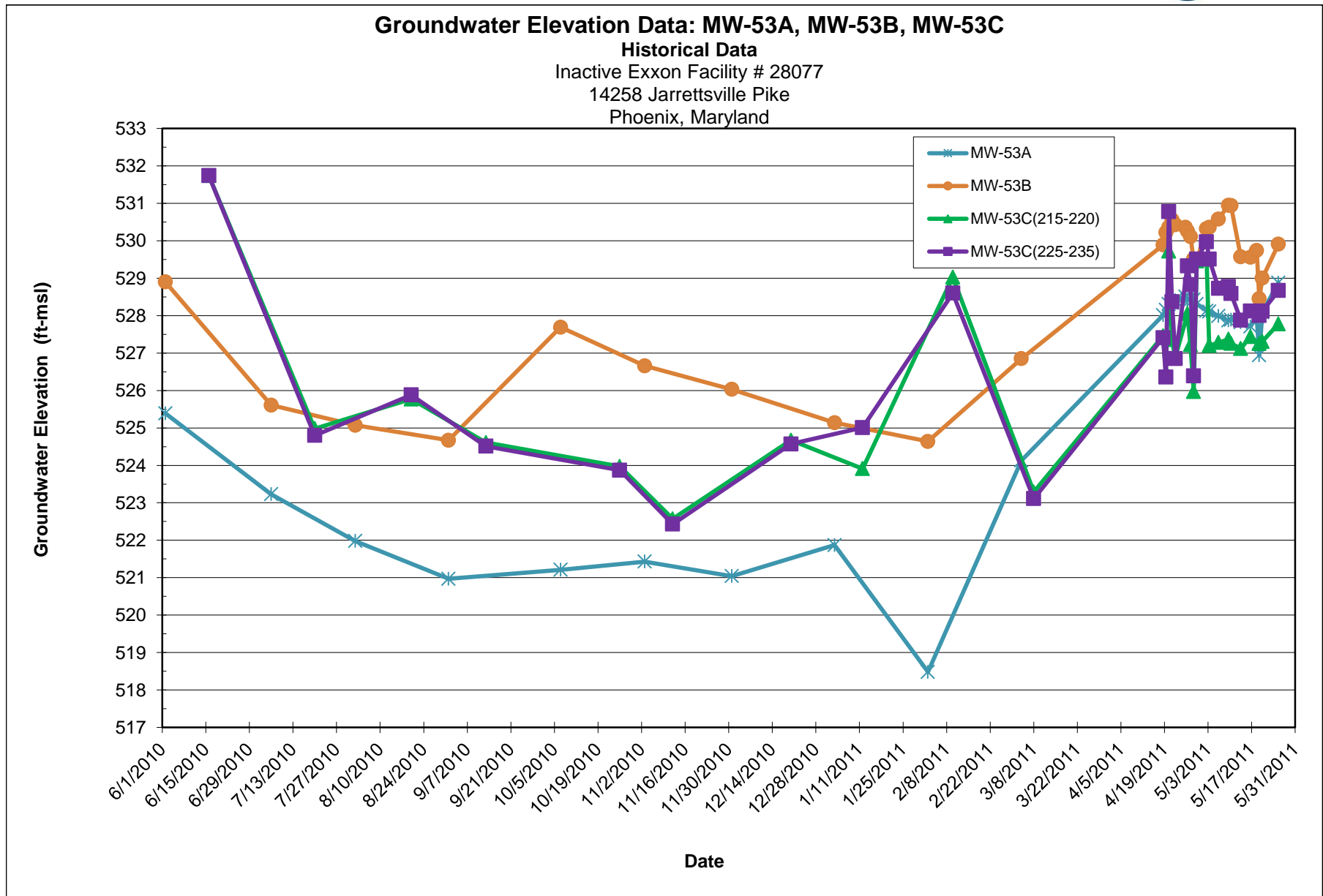
Notes:
 ft-msl - feet above mean sea level



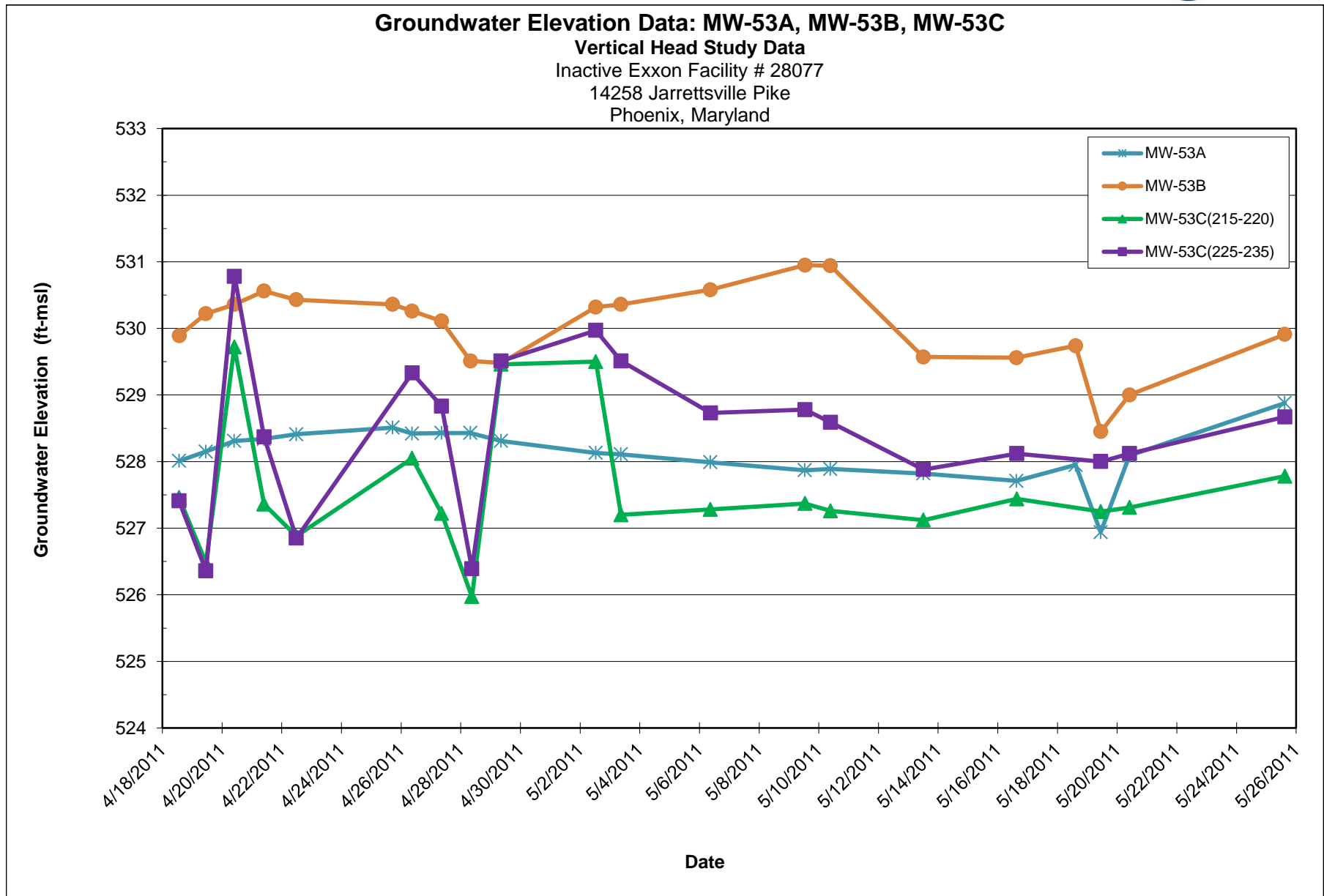
Notes:
ft-msl - feet above mean sea level



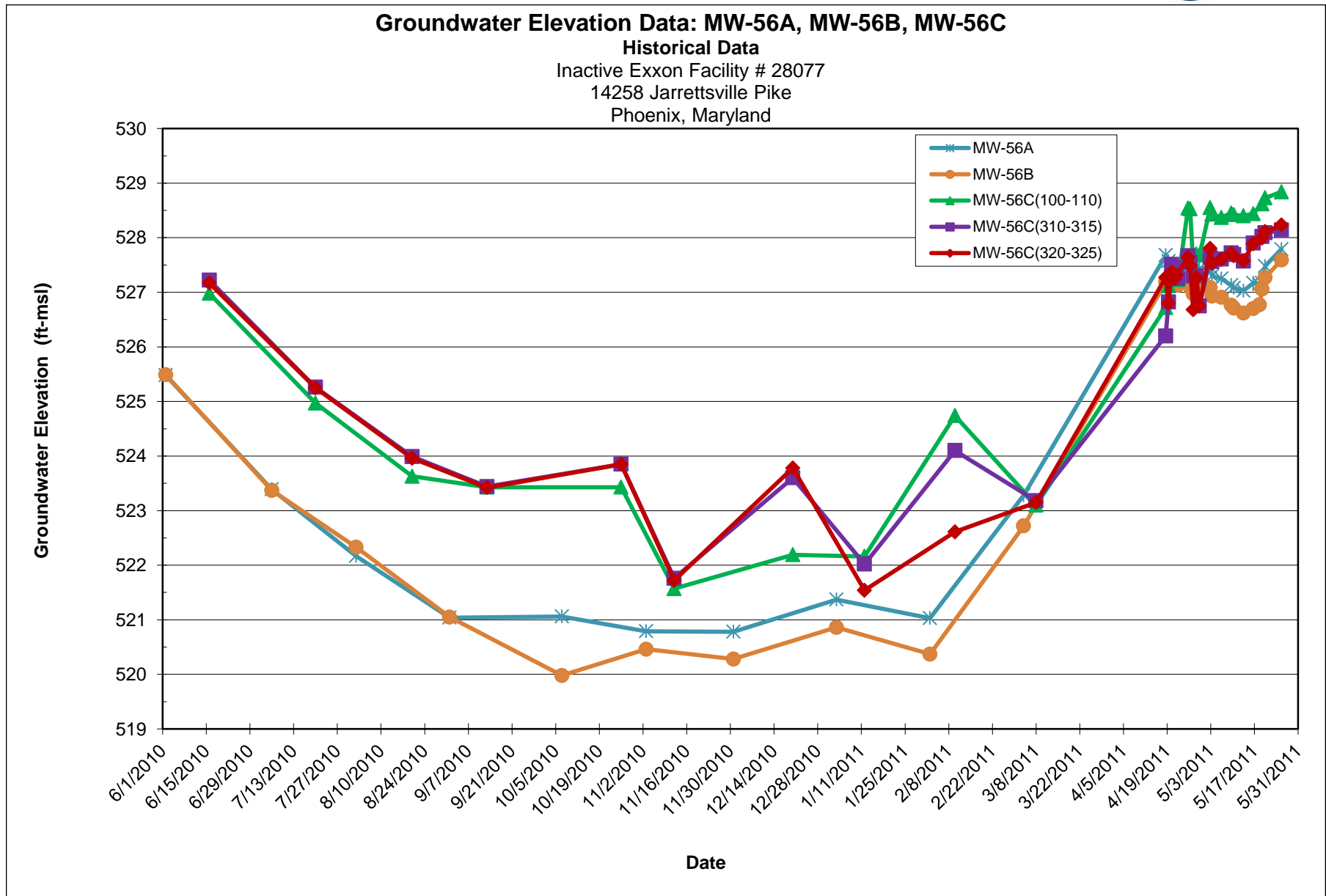
Notes:
ft-msl - feet above mean sea level



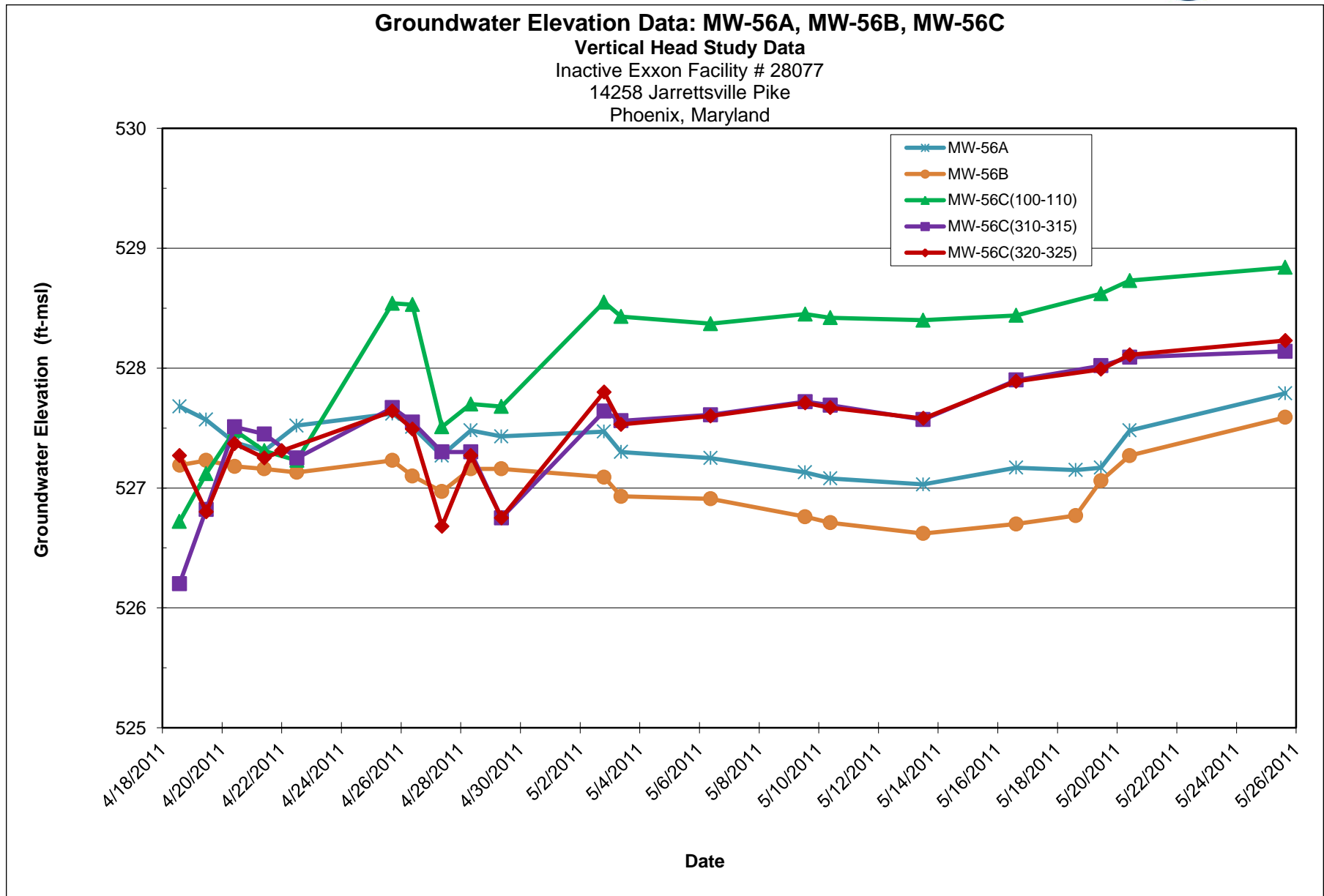
Notes:
ft-msl - feet above mean sea level



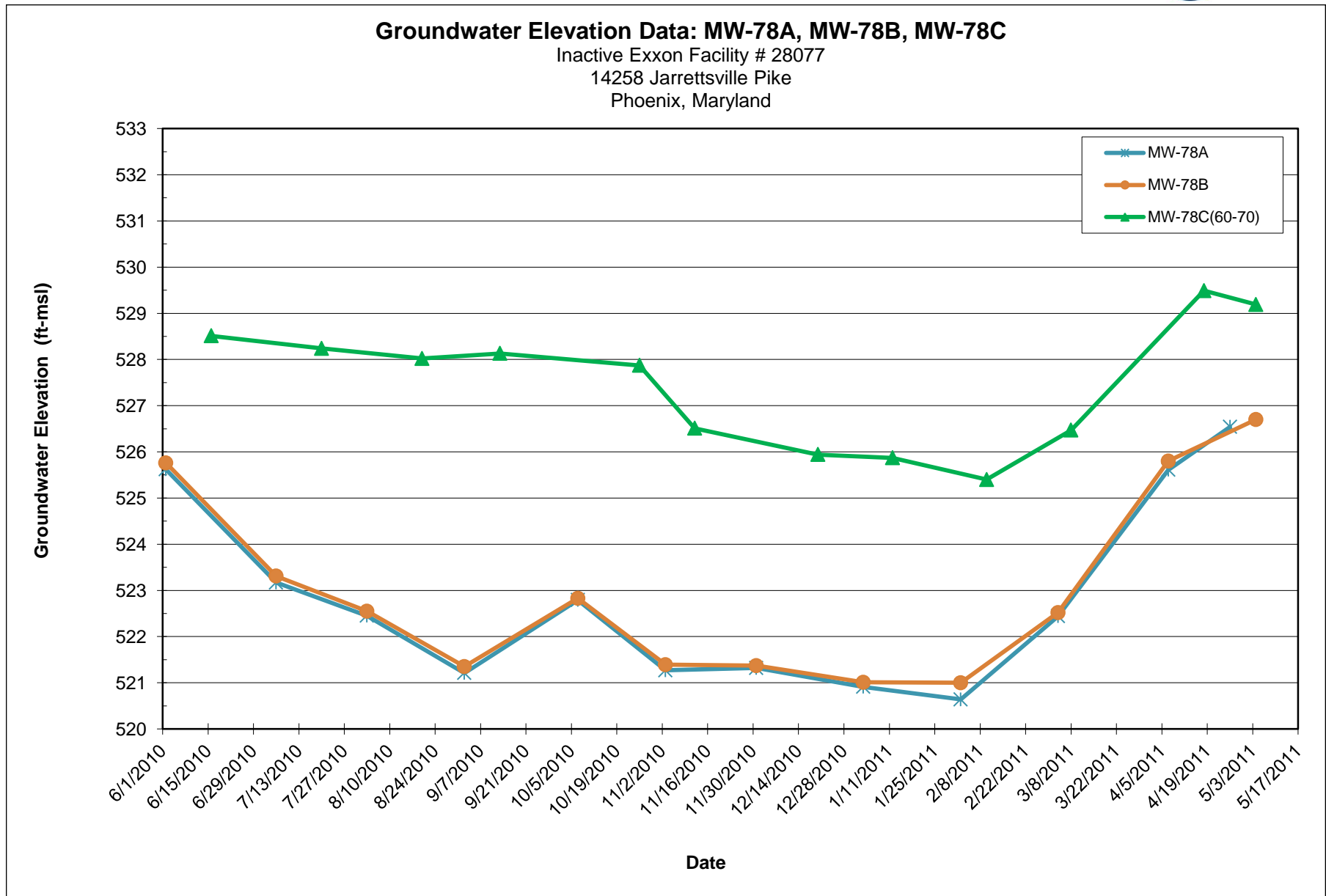
Notes:
ft-msl - feet above mean sea level



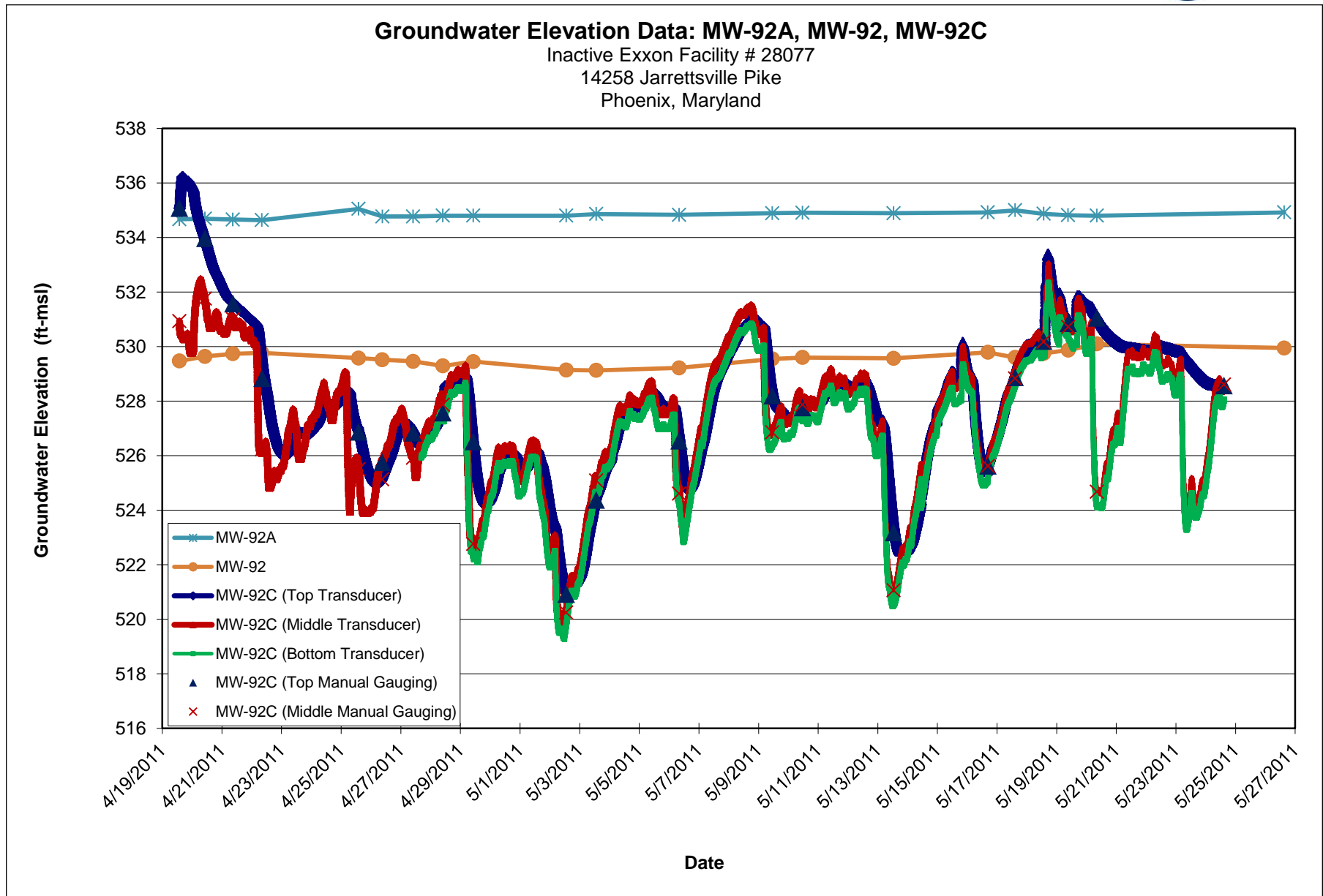
Notes:
ft-msl - feet above mean sea level



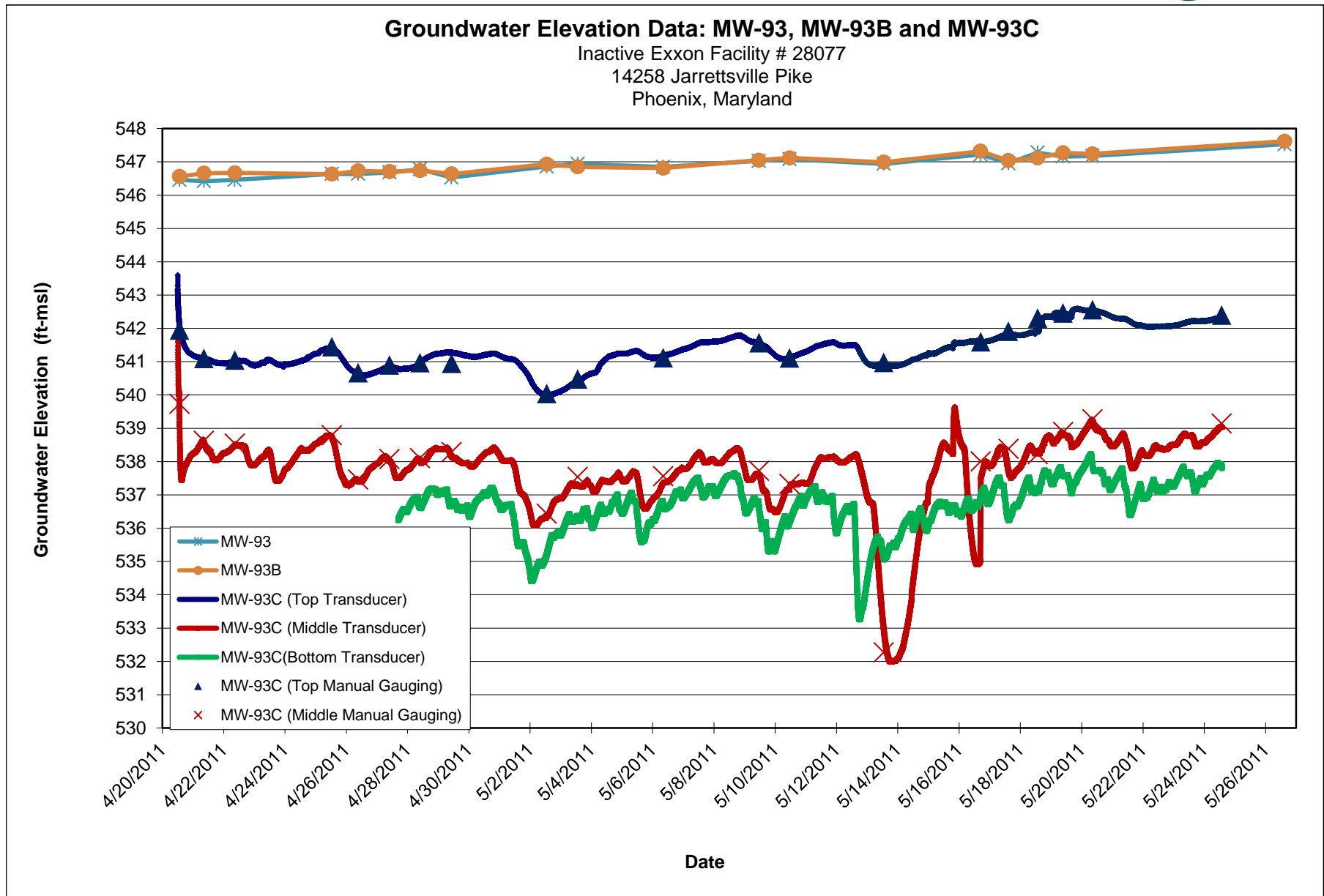
Notes:
ft-msl - feet above mean sea level



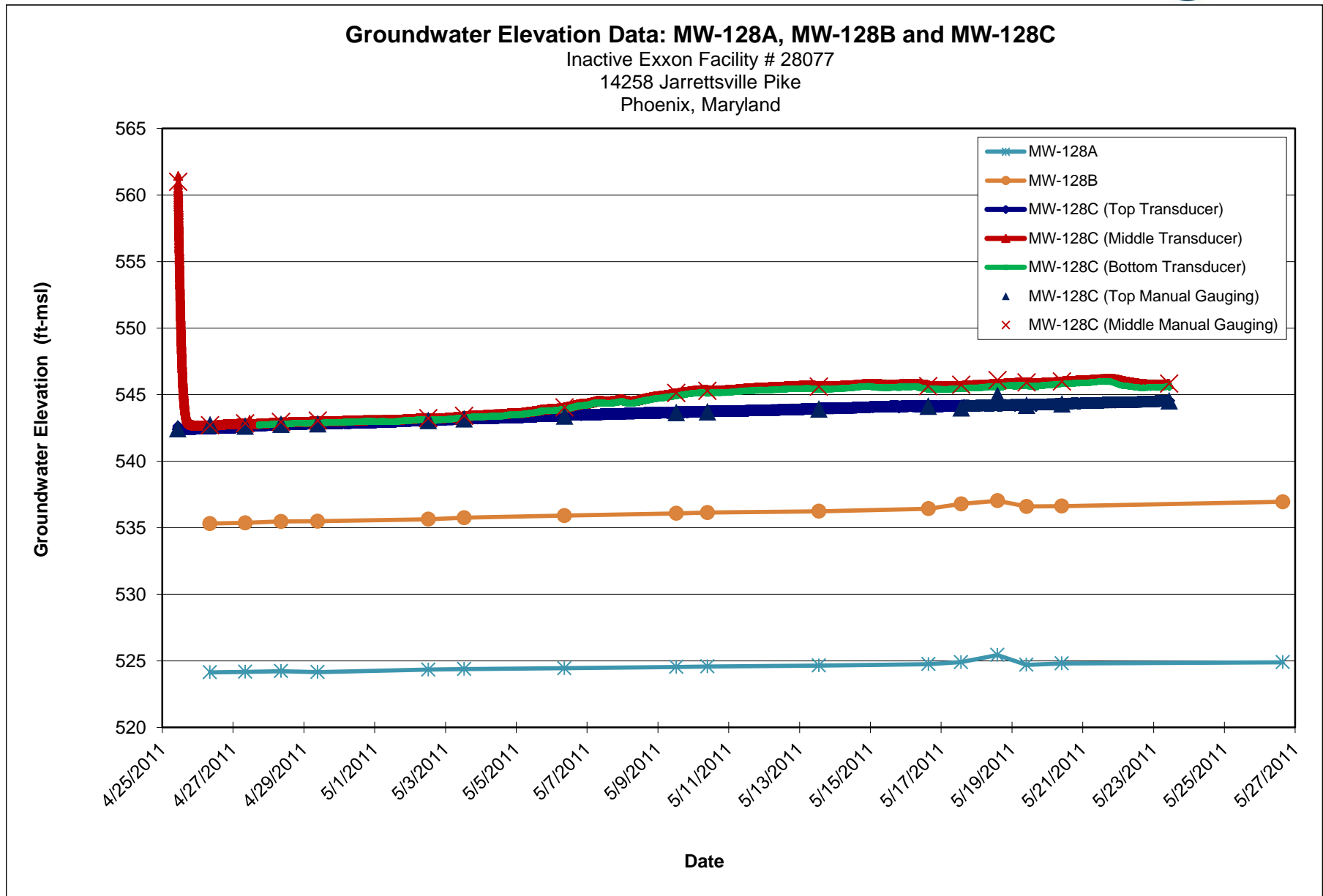
Notes:
ft-msl - feet above mean sea level



Notes:
ft-msl - feet above mean sea level



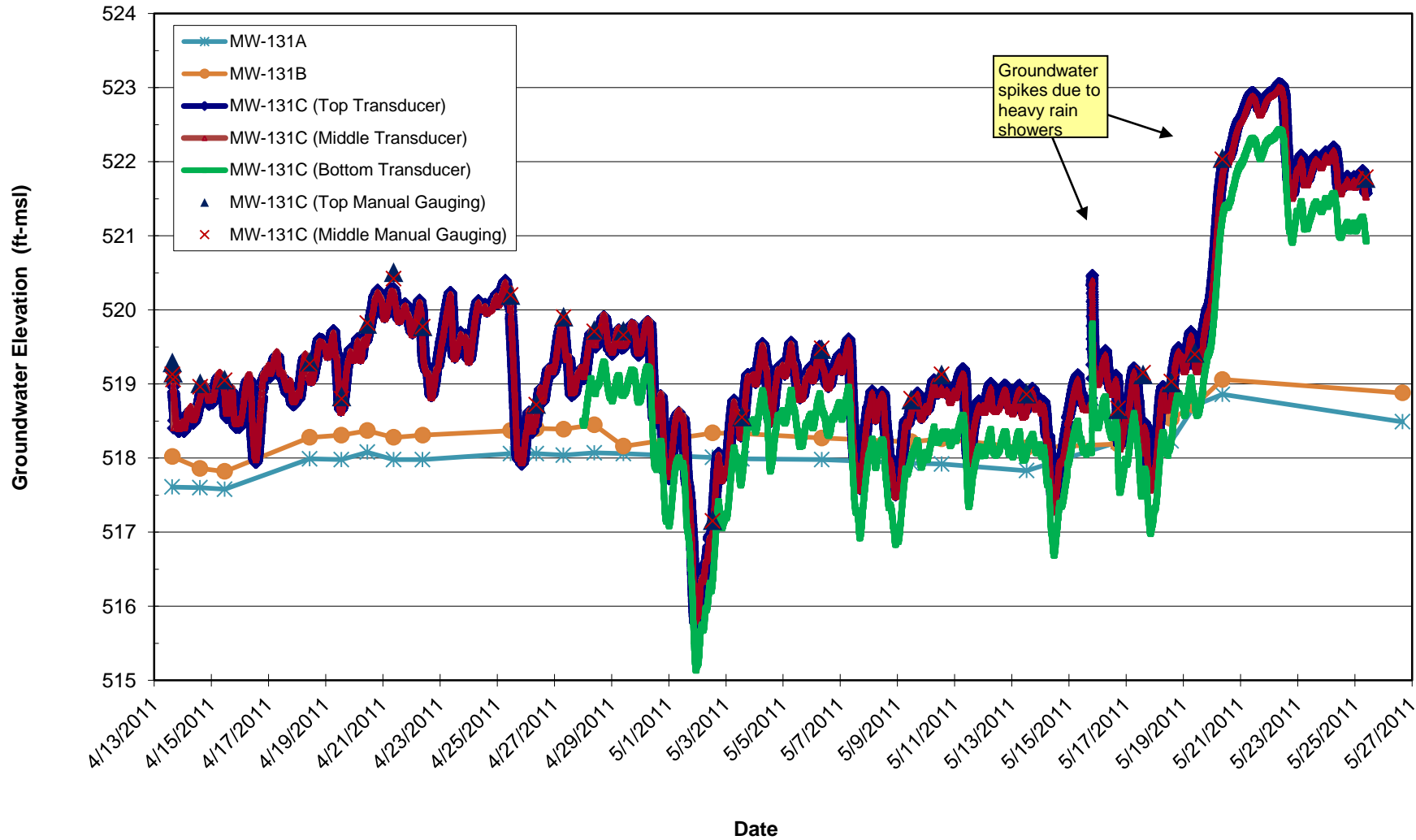
Notes:
ft-msl - feet above mean sea level



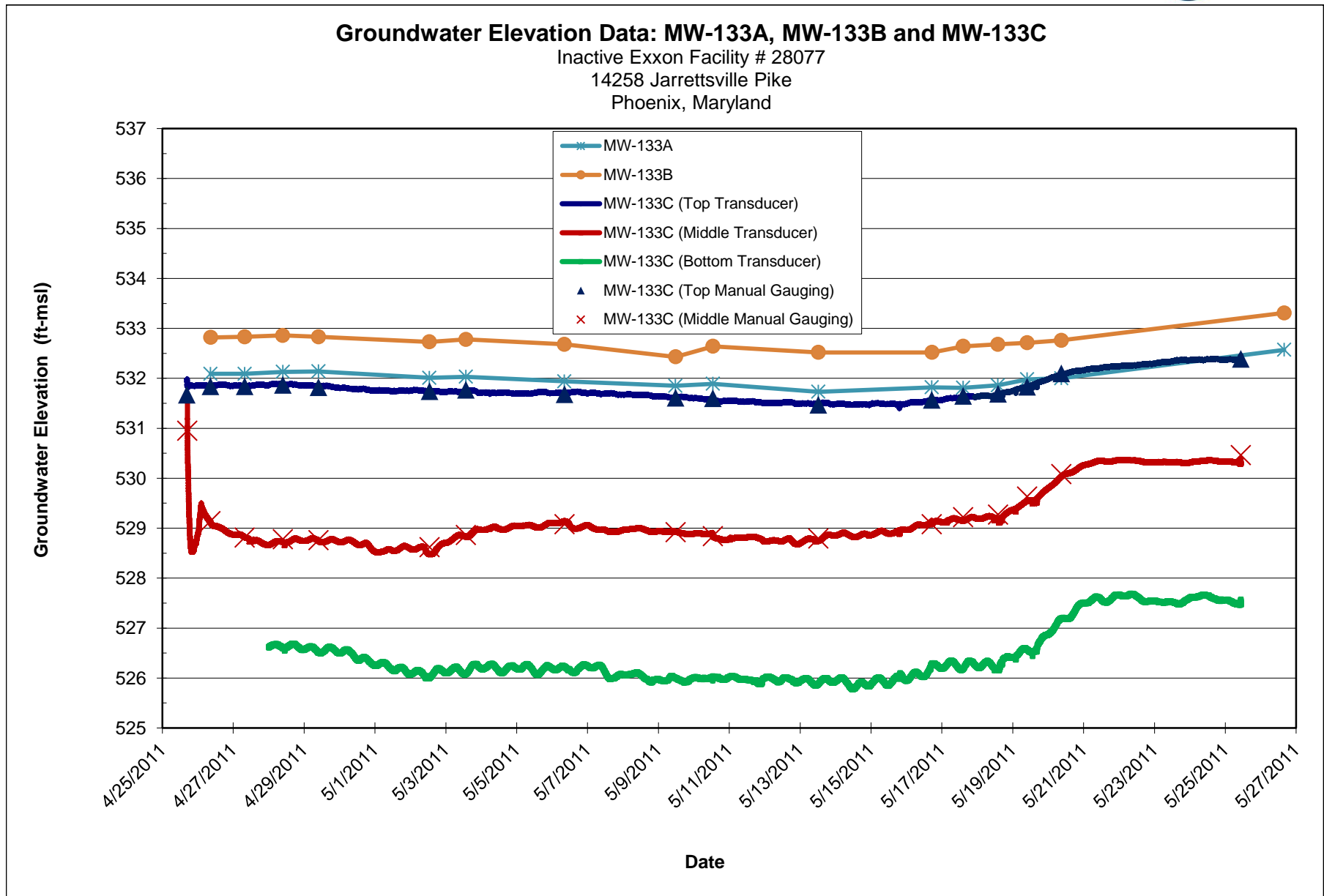
Notes:
ft-msl - feet above mean sea level

Groundwater Elevation Data: MW-131A, MW-131B and MW-131C

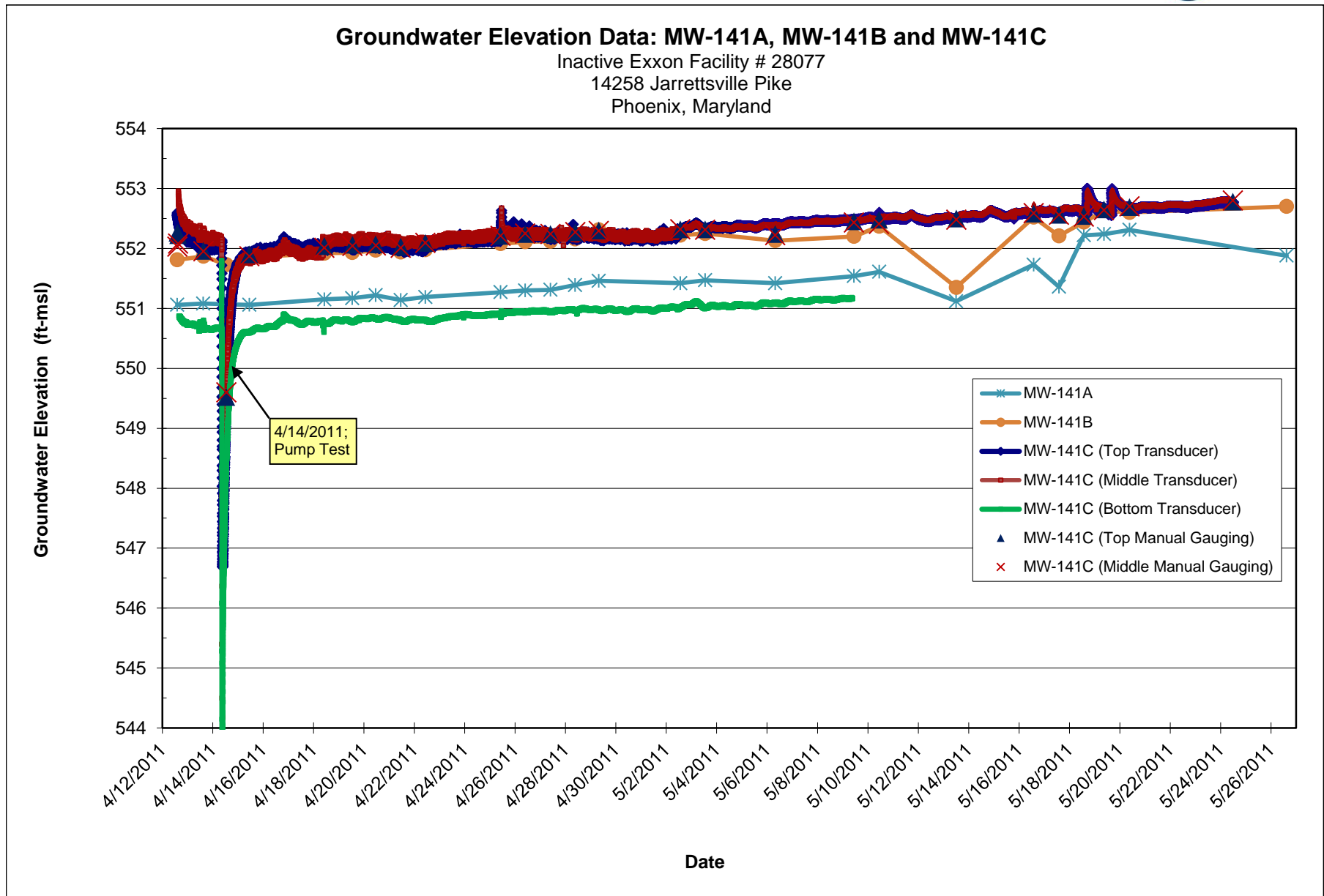
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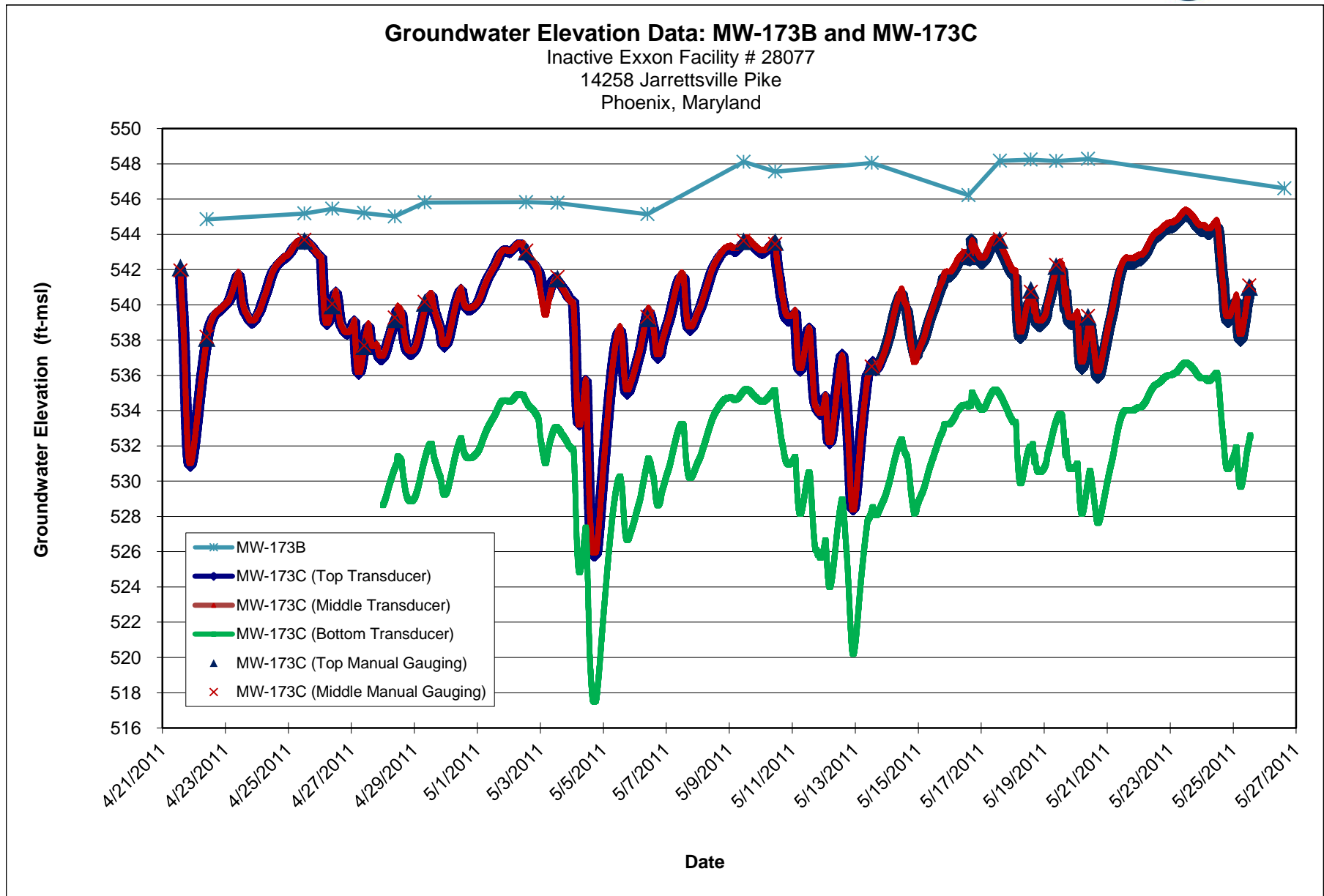
Notes:
 ft-msl - feet above mean sea level



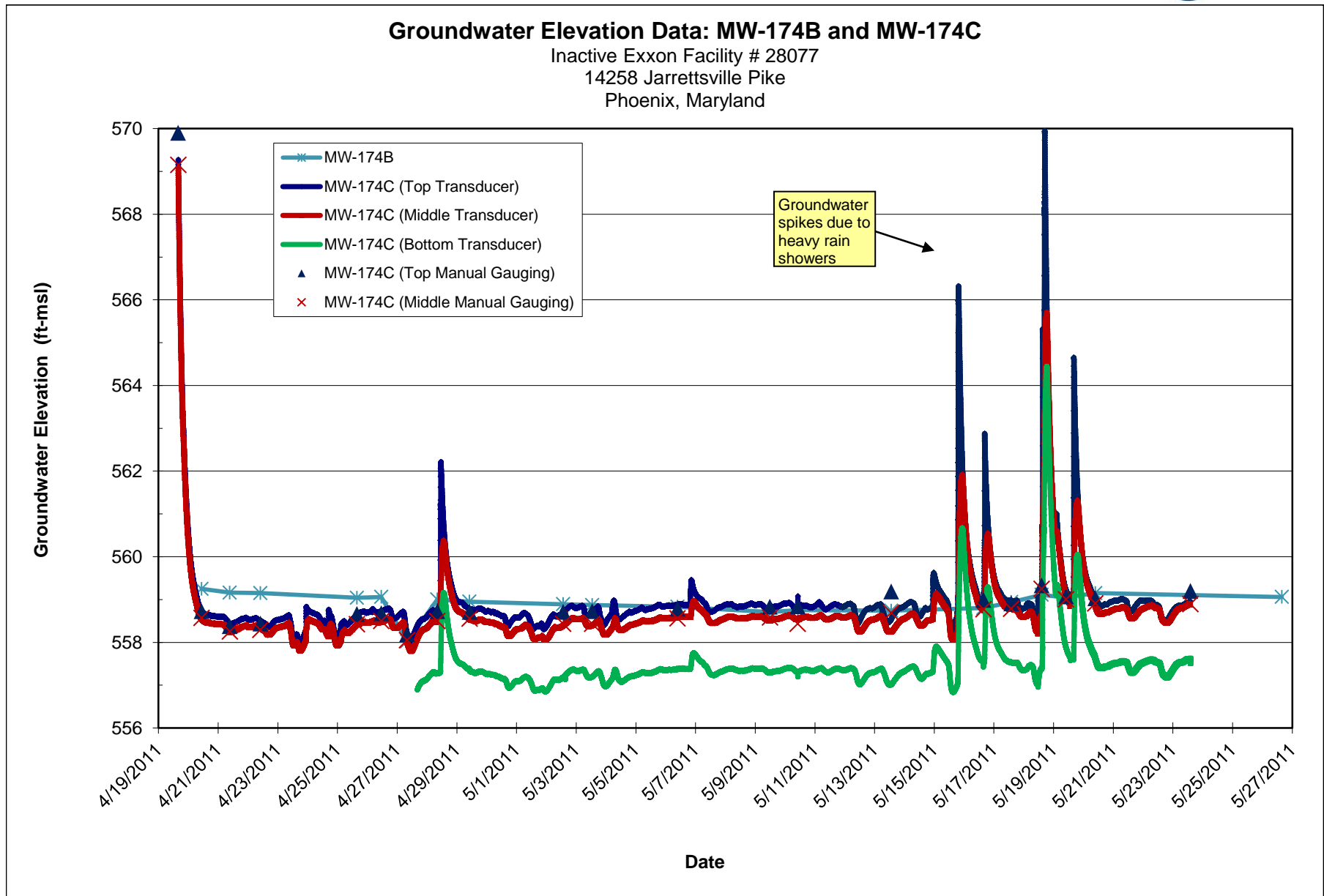
Notes:
ft-msl - feet above mean sea level



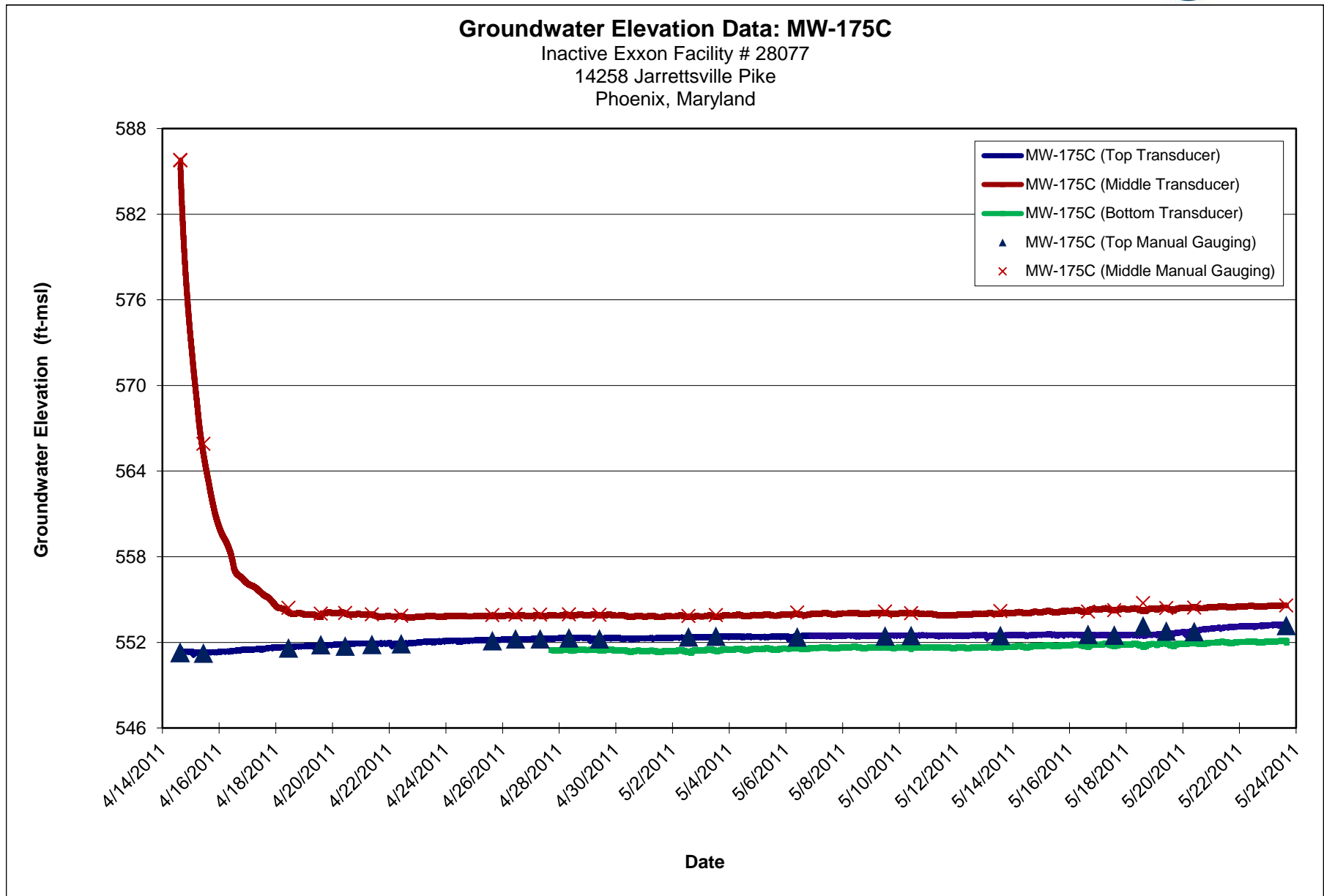
Notes:
ft-msl - feet above mean sea level



Notes:
ft-msl - feet above mean sea level



Notes:
ft-msl - feet above mean sea level



Notes:
ft-msl - feet above mean sea level