AP - 001

ANNUAL MONITORING REPORT

YEAR(S):
1996

BDM INTERNATIONAL, INC.
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BDM/ABQ-MWS-ENV42-97

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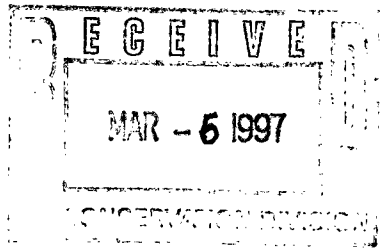


Mr. Bill Olsen
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RE: ANNUAL REPORT OF GROUNDWATER MONITORING AT THE BRICKLAND REFINERY SITE, SUNLAND PARK, NEW MEXICO

Dear Bill:

BDM International, Inc. (BDM),on behalf of Rexene Corporation (Rexene), is pleased to submit the Annual Groundwater Monitoring Report for the Brickland Refinery Site, Sunland Park, New Mexico. This letter report summarizes the results of semi-annual groundwater monitoring conducted in June and December 1996.

The semi-annual monitoring includes the following New Mexico Oil Conservation Division (NMOCD)-approved work scope:

- Measure the depth to groundwater in all on-site monitor wells and five off-site monitor wells (MW-3S, MW-3D, MW-6S, MW-6D, and MW-9S). Water levels are not measured in well points because the well points were specifically designed to detect free-phase product at discrete depth and the screen intervals do not correlate with monitor well screens.

- Measure product thickness in all on-site monitor wells and five off-site monitor wells (MW-3S, MS-3D, MW6S, MW6D and MW-9S), as well as all on-site well points.

- Collect groundwater samples from monitor wells MW-3S, MW-3D, MW-6S, MW-6D, and MW-9S. In addition, collect two surface water samples from the Rio Grande: one from the upstream end of the site, and one from the downstream end of the site near MW-6S. Samples collected in June are analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) by Method 8020, polyaromatic hydrocarbons (PAHs) by Method 610, and for priority pollutant metals. Samples collected in December are analyzed only for BTEX.

The annual report includes the following elements:

- A description of all monitoring activities that occurred during the year, including conclusions and recommendations.

- Summary tables of all past and present laboratory analytical results of groundwater and surface water sampling, and plots of concentrations versus time for contaminants of concern for each monitoring point. Laboratory reports are also included.

- Groundwater surface maps for each semi-annual monitoring event based on groundwater elevations from the monitor wells.

- Plots of water table elevation versus time for each groundwater monitor well.

Semi-annual sampling was conducted by BDM in June and December of 1996 according to the work scope cited above. The results are presented in the following tables and figures:

- Table 1 summarizes BTEX results from December 1993 through December 1996.

- Figure 1 presents plots of BTEX versus time for each monitoring point.

- Table 2 summarizes PAH results from December 1993 through December 1996.

- Plots of PAHs versus time are not provided because all sampling events have resulted in non-detect, with the exception of one positive result in MW-6S in June 1995.

- Table 3 summarizes metals results from the June 1996 sampling event. Metals results from previous sampling is summarized in Table 16 of the Final Site Investigation Report.

- Plots for metals are not included in this report because previous sampling events have a different analyte list for metals. Plots for metals will be included in future annual reports beginning with 1996 results.

- Table 4 summarizes groundwater elevations in the monitor wells.

- Figure 2 presents groundwater elevations versus time for the monitor wells.

- Table 5 summarizes free-phase product thicknesses in monitor wells and well points from September 1993 through December 1996.

- Figures 3 and 4 are groundwater surface maps based on groundwater elevations in the monitor wells in June and December 1996, respectively.

- Laboratory reports for June and December 1996 are enclosed.

The results of the June and December 1996 monitoring events correlate well with previous sampling events. BTEX was not detected in monitor wells MW-3S, MW-3D, MW-6D, MW-9S, nor in upstream or downstream river samples in the June and December events. MW-6S contained 330 micrograms per liter (µg/l) benzene, 160 µg/l toluene and 90 µg/l xylene in June, and 50 µg/l benzene in December (Table 1).

No PAHs were detected in any of the monitor wells or river samples in June (Table 2).

With the exception of three samples, all metals analyses in June were either non-detect or below New Mexico Water Quality Control Commission (NMWQCC) standards. MW-6D contained 0.12 milligrams per liter (mg/l) selenium and 0.056 mg/l silver, the NMWQCC standards are 0.05 mg/l for both metals. A duplicate sample for MW-6D resulted in non-detect for selenium and 0.007 mg/l (0.002 mg/l above the detection limit) for silver. MW-6D has never contained detectable concentrations of either selenium or silver. MW-9S contained 0.07 mg/l selenium. The only other time MW-9S contained selenium was a result of 0.01 mg/l in September 1994 (Table 3).

Lead has never been detected in any on- or off-site monitor wells. In June, 0.003 mg/l of lead was detected in MW-6S. A level of 0.003 mg/l is the method detection limit. The upstream river sample contained 0.007 mg/l lead and the downstream river sample contained 0.005 mg/l lead, both higher than the MW-6S sample result (Table 3).

June 1996 groundwater elevations beneath the site correlate very well with groundwater elevations in June 1995 (Table 4). Groundwater elevations in December 1996 were approximately 2 feet lower than in June 1996 and correlate well with historical December groundwater elevations (Figure 2).

In June and December 1996, 2.3 and 2.14 feet of free-phase product was measured in monitor well MW-10, respectively. Well point WP-27D measured 0.48 feet of free-phase product and well point WP-37 measured 0.04 feet. Traces of free-phase product were observed in monitor well MW-11 and in well points WP-1, WP-18, and WP-33. All other monitor wells and well points either contained no product or were dry (Table 5). Free-phase product thickness measurements were not made in the well points in June, but will be made in both June and December in the future.

Groundwater continues to flow generally south at variable directions at an approximate hydraulic gradient of 0.0006 feet/foot. In the southern half of the site, groundwater beneath the east side tends to flow towards the Rio Grande, while tending to flow away from the Rio Grande on the west side (Figures 3 and 4).

Groundwater conditions, in general, remain unchanged from conditions described in detail in the Final Site Investigation Report.

The next groundwater monitoring event is scheduled for June 1997.

Sincerely,

Michael W. Selke, RG
Senior Program Manager

3031/FINANN96.RPT

Enclosure

cc: Reggie Baker, Rexene
Todd Carver, Rexene
Project File

Table 1
Brickland Refinery
BTEX Concentrations in River Monitoring Wells and River Surface Samples

MW-3S

Parameter	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96
Benzene	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	18	ND	ND	ND	ND	ND	ND	ND	ND

MW-3D

Parameter	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96
Benzene	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-6S

Parameter	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	9/25/95	6/21/96	12/23/96
Benzene	71	74	110	4.8	59	110	NS	180	330	50
Toluene	ND	ND	ND	2.8	ND	7	NS	120	160	ND
Ethyl Benzene	52	12	30	34	ND	32		ND	ND	ND
Xylenes	ND	7.6	88	16	ND	43	NS	30	90	ND

MW-6D

Parameter	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	9/25/95	6/21/96	12/23/96
Benzene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND
Xylenes	ND	1.6	ND	ND	ND	ND	ND	ND,ND	ND	ND

MW-9S

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	0.6	ND	ND	0.6	ND	ND	ND	ND

River - Upstream

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96
Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Toluene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Ethyl Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Xylenes	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND

River - Downstream

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96
Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Toluene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Ethyl Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND
Xylenes	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND

	WQCC Std.	Detection Limit
Benzene	10	0.5 µg/L
Toluene	750	0.1 µg/L
Ethyl Benzene	750	0.5 µg/L
Xylenes	620	0.5 µg/L

NA = Not available
ND = Not detected
NS = Not sampled
µg/L = Micrograms per liter

Table 2

Brickland Refinery

Total PAH Concentrations in River Monmitoring Wells and River Surface Samples From June 1996 Sampling Event

Well ID	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	June 95	June 96	Dec. 96
MW-3S	ND	ND	ND	ND	ND	ND	ND	ND	-
MW-3D	ND	ND	ND	ND	ND	ND	ND	ND	-
MW-6S	ND	ND	ND	ND	ND	ND	15, 10	ND	-
MW-6D	ND	-	ND	ND	ND	ND	ND	ND, ND	-
MW-9S	ND	ND	ND	ND	ND	ND	ND	ND	-
Riv-Up	-	-	-	-	-	-	-	ND	-
Riv-Down	-	-	-	-	-	-	-	ND	-

Notes: - = Not sampled for PAH.

All Results in Micrograms per Liter (μg/L)

Table 3

Brickland Refinery

River Monitoring Well Samples and River Surface Samples Analytical Results from June 1996 Sampling Event

Well ID	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
NM WQCC Std.	5.0	0.1	1.0	0.0100	0.050	1.0	1.0	0.0020	0.2	0.05	0.05		10.0
Detection Limit	0.010	0.010	0.001	0.0005	0.005	0.005	0.003	0.0002	0.005	0.010	0.005	0.01	0.005
MW-3S	ND	0.020	ND	0.0021	0.023	ND	ND	ND	ND	0.050	ND	ND	ND
MW-3D	ND	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-6S	ND	0.020	ND	ND	ND	ND	0.003	ND	ND	0.020	ND	ND	ND
MW-6D	ND	ND	0.002	ND	0.031	ND	ND	ND	ND	**0.120**	**0.056**	ND	ND
MW-6D (Dupe)	0.010	0.020	0.003	0.004	ND	ND	ND	ND	0.008	ND	0.007	0.014	ND
MW-9S	0.020	ND	ND	0.0007	ND	0.044	ND	ND	ND	**0.070**	ND	0.040	ND
River-Upstream	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.013
River-Downstream	ND	ND	ND	ND	0.008	ND	0.005	ND	ND	ND	ND	ND	0.006

mg/L = Milligrams per liter

Table 4
Brickland Refinery
Monitor Well Groundwater Elevations

Well ID	Jul. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Jun. 95	Sept. 95	Jun. 96	Dec. 96
MW-1	3725.78	3724.30	3725.27	3726.54	3725.37	3724.35	NM	3726.66	NM	3725.72	3724.03
MW-2	NM	NM	3726.39	3726.54	3725.89	3723.97	NM	3726.81	NM	3726.56	3724.67
MW-3S	3725.29	3723.27	3725.20	3725.87	3724.50	3723.44	3725.35	3725.68	3724.98	3725.08	3723.10
MW-3D	3725.22	3723.30	3725.10	3725.78	3724.42	3723.35	3725.26	3725.75	3724.97	3725.00	3723.01
MW-4	3725.21	3723.59	3725.36	3725.56	3724.68	3723.64	3725.56	3725.66	3725.40	3725.25	3723.31
MW-5	3725.11	3723.59	3725.30	3725.88	3724.70	3723.65	3725.40	3725.86	3725.39	3725.37	3722.93
MW-6S	3725.08	3723.78	3724.85	3725.55	3724.20	3723.03	3725.05	3725.53	3724.63	3724.83	3722.80
MW-6D	3725.00	3723.75	3724.82	3725.57	3724.22	3723.00	3725.02	3725.48	3724.57	3724.75	3722.72
MW-7	3725.16	3723.72	3725.16	3725.89	3724.46	3723.16	3725.36	3725.32	3725.23	NM	3723.16
MW-8	3725.10	3723.42	3725.12	3725.77	3724.49	3723.45	3725.42	3725.74	3724.33	3725.29	3723.13
MW-9S	3724.84	3723.52	3724.56	3725.29	3723.91	3722.81	3724.81	3725.21	3725.52	3724.49	3722.51
MW-10	P	P	P	P	P	P	P	P	P	P	P
MW-11	3724.91	3722.90	3725.10	3725.75	P	3723.40	3725.35	3725.86	3724.98	3725.20	3723.10
MW-12	3726.09	3724.91	3726.45	3727.05	3725.70	3723.65	NM	3727.15	3726.39	NM	3724.37
MW-13	3725.22	NM	NM	3725.82	3724.71	3724.44	NM	3726.05	NM	3725.30	3723.27
MW-14	NM	NM	NM	3726.03	3724.61	3723.58	3725.56	3726.01	3725.31	NM	3723.25
MW-15	NM	NM	NM	3725.62	3724.28	3723.19	3724.97	3725.58	3724.87	NM	3721.90
MW-16	NM	NM	NM	3725.43	3724.06	3722.93	3724.88	3725.44	3724.54	3724.65	3722.63
MW-17	NM	NM	NM	3725.90	3724.46	3723.36	3725.38	3726.82	3726.05	NM	3723.07

Notes: NM = Not measured.
P = Product observed.

Table 5
Brickland Refinery
Product Thickness (feet)

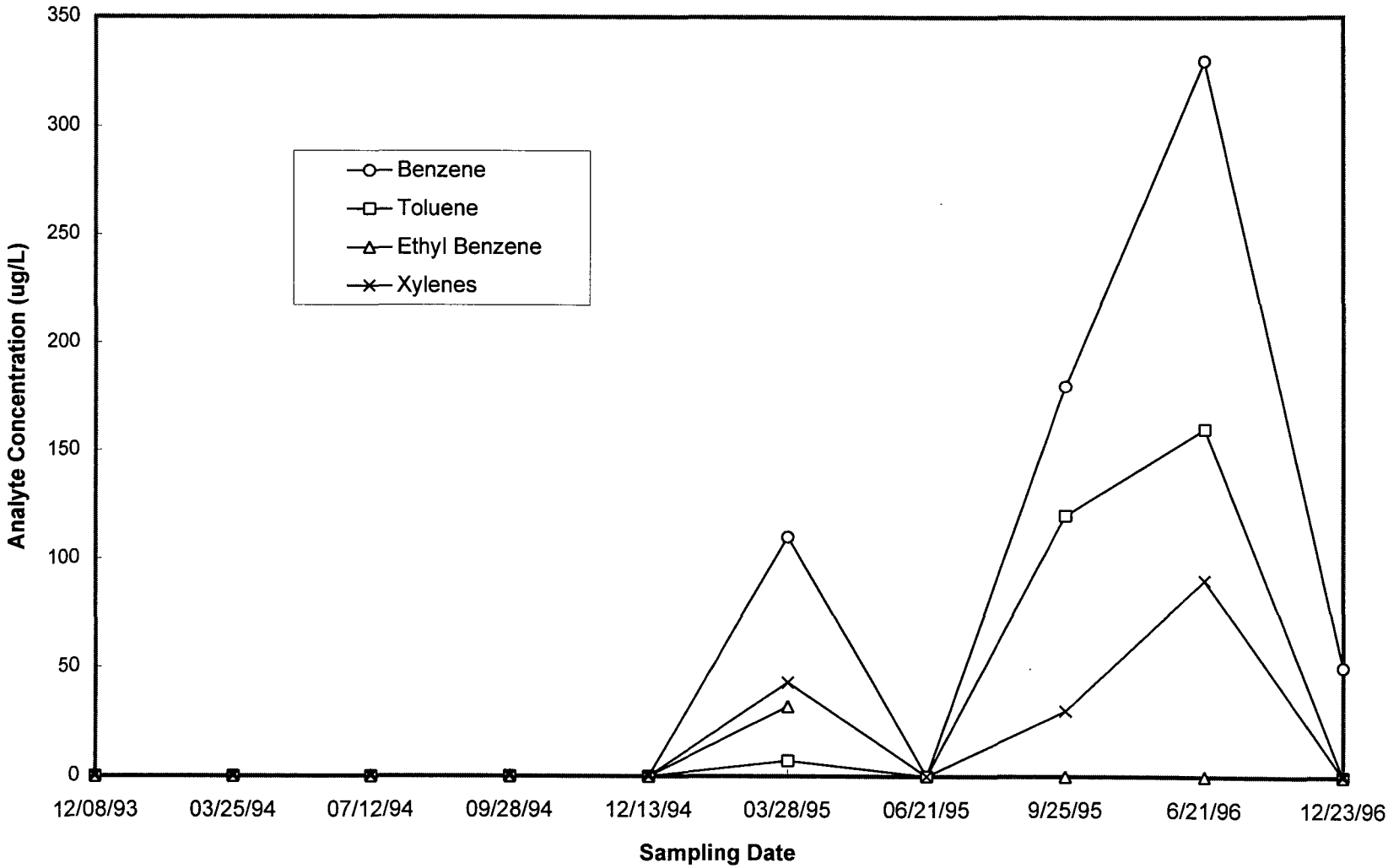
Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Dec. 95	Jun. 96	Dec. 96
MW-1	NM	NM	NP	NP	NP	NP	NM	NP	NP	NP
MW-2	NM	NM	NP	NP	NP	NP	NM	NP	NP	NP
MW-3S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-3D	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-4	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-5	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-6S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-6D	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-7	NM	NM	NP	NP	NP	NP	NP	NP	NM	NP
MW-8	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-9S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP
MW-10	5.42	3.58	NM	3.45	2.40	2.46	NM	2.29	2.3	2.14
MW-11	NM	NM	NP	NP	0.05	NM	NM	0.16	NP	Trace
MW-12	NM	NM	NP	NP	NP	NP	NM	NP	NM	NP
MW-13	NM	NM	NM	NP	NP	NP	NM	NP	NP	NP
MW-14	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP
MW-15	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP
MW-16	NM	NM	NM	NP	NP	NP	NP	NP	NP	NP
MW-17	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP
WP-1	NM	NM	NM	NP	NP	NP	NM	0.16	NM	Trace
WP-2	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-3	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-4	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-5	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-6	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-7	NM	NM	NM	NP	NP	NP	NM	NM	NM	NP
WP-8	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-9	0.01	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-10	NM	NM	NM	NP	0.20	Dry	NM	NP	NM	Dry
WP-11	0.01	NM	NM	NP	Dry	Dry	NM	NM	NM	Dry
WP-12	NM	NM	NM	NP	Dry	NM	NM	NP	NM	Dry
WP-13	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry
WP-14	NM	NM	NM	NP	Tar	NM	NM	0.14	NM	Tar

Table 5
Brickland Refinery
Product Thickness (feet)

Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Dec. 95	Jun. 96	Dec. 96
WP-15	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-16	NM	NM	NM	NP	NM	NM	NM	NP	NM	Dry
WP-17	NM	NM	NM	NP	Dry	Dry	NM	NP	NM	Dry
WP-18	NM	NM	NM	NP	NP	NP	NM	NP	NM	Trace
WP-19	NM	0.01	NM	NP	NP	NP	NM	NP	NM	NP
WP-20	NM	NM	NM	NP	NM	NP	NM	NP	NM	NP
WP-21	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry
WP-22	NM	NM	NM	NP	NP	NP	NM	NP	NM	NM
WP-23	NM	NM	NM	NP	NP	NP	NM	NP	NM	NM
WP-24	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-25	0.05	0.05	NM	0.22	NM	0.20	NM	1.56	NM	NM
WP-26S	NM	0.12	NM	2.20	2.59	1.53	NM	NP	NM	NP
WP-26D	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-27S	NM	NM	NM	NP	NP	NP	NM	NM	NM	NP
WP-27D	NM	NM	NM	0.11	0.45	0.49	NM	NM	NM	0.48
WP-28	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-29	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-30	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-31	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry
WP-32	NM	NM	NM	Dry	Dry	Dry	NM	Dry	NM	Dry
WP-33	NM	NM	NM	NP	NP	NP	NM	NP	NM	Trace
WP-34	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-35	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-36	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP
WP-37	NM	NM	NM	NP	NP	NP	NM	NP	NM	0.04

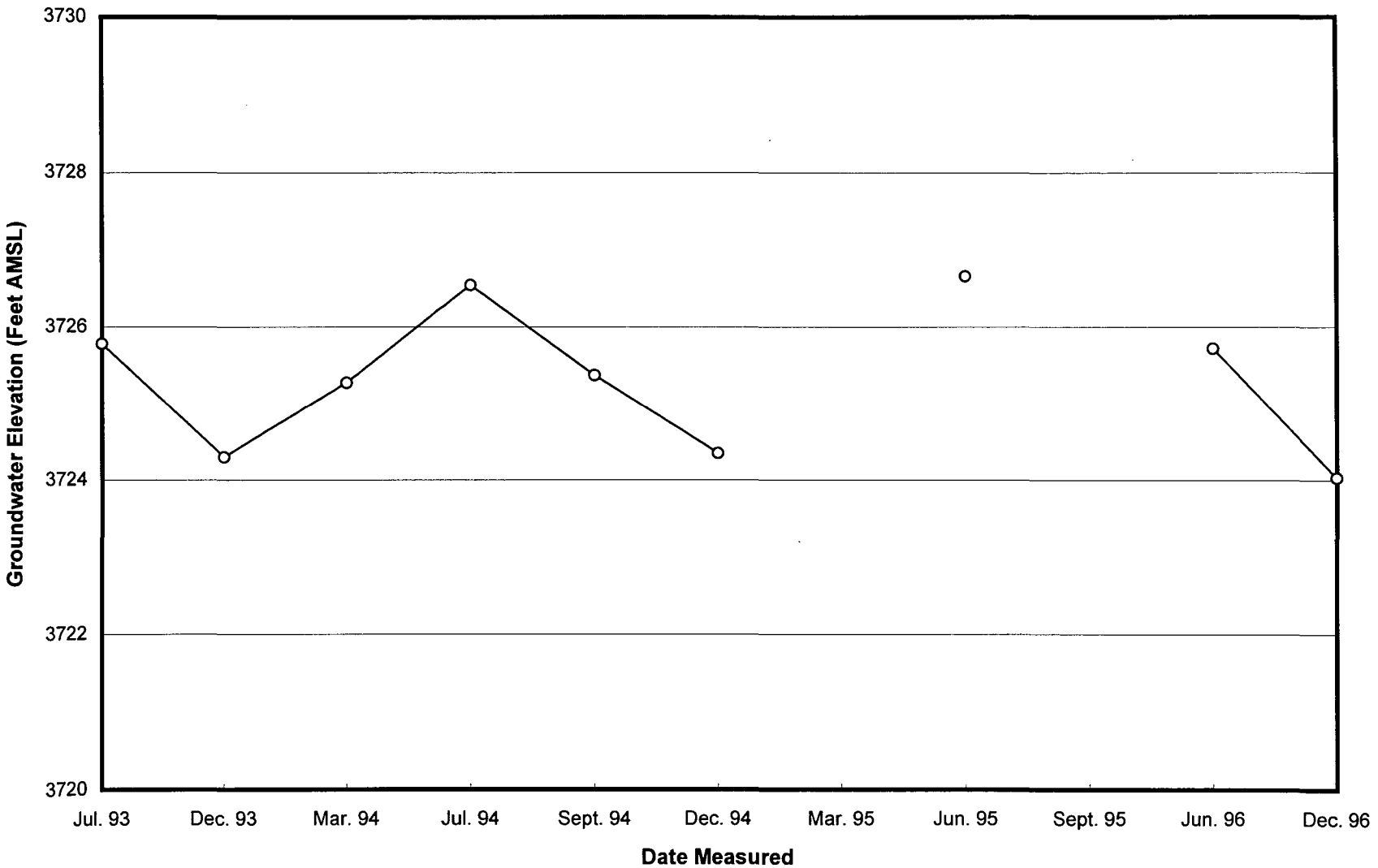
Notes: NM - Not Measured
NP - No Product
Trace = Trace of free product was observed.

Figure 1
Brickland Refinery
MW-6S BTEX Concentrations Over Time



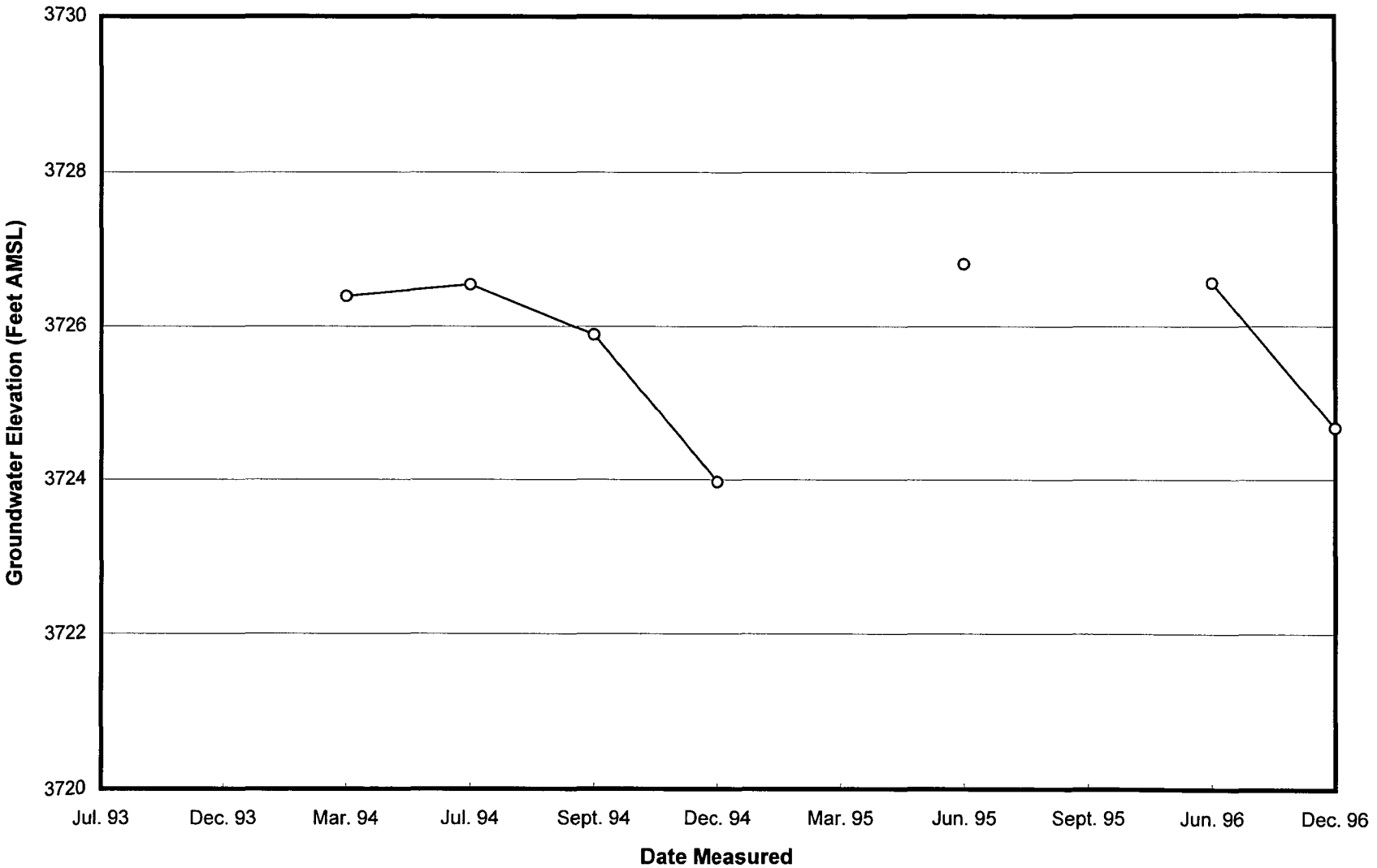
SEMIANN2.XLS (MW-6S BTEX)

Figure 2
Brickland Refinery
MW-1 Groundwater Elevation Over Time



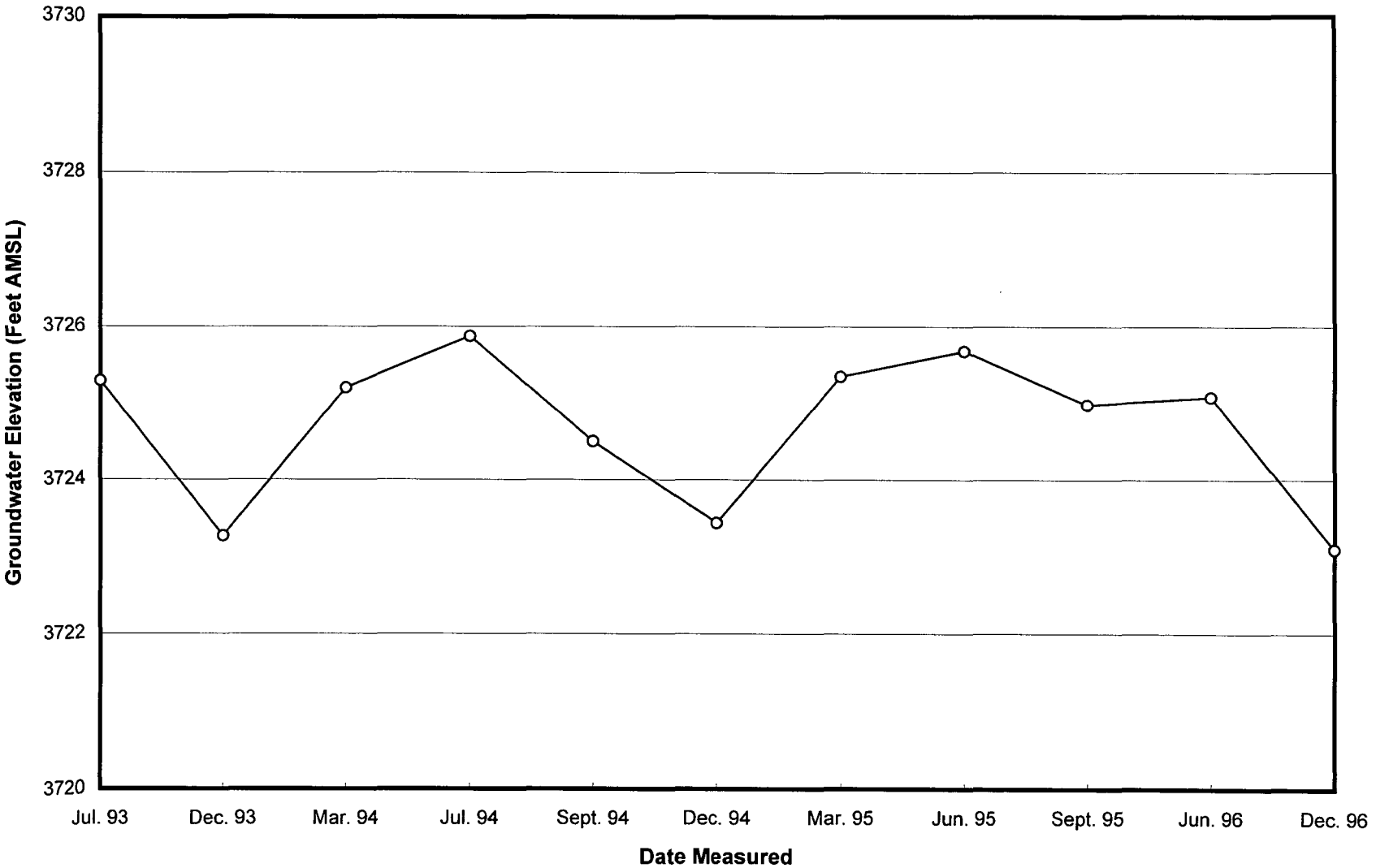
SEMIANN2.XLS:MW-1 WL

Figure 2 (Cont.)
Brickland Refinery
MW-2 Groundwater Elevation Over Time



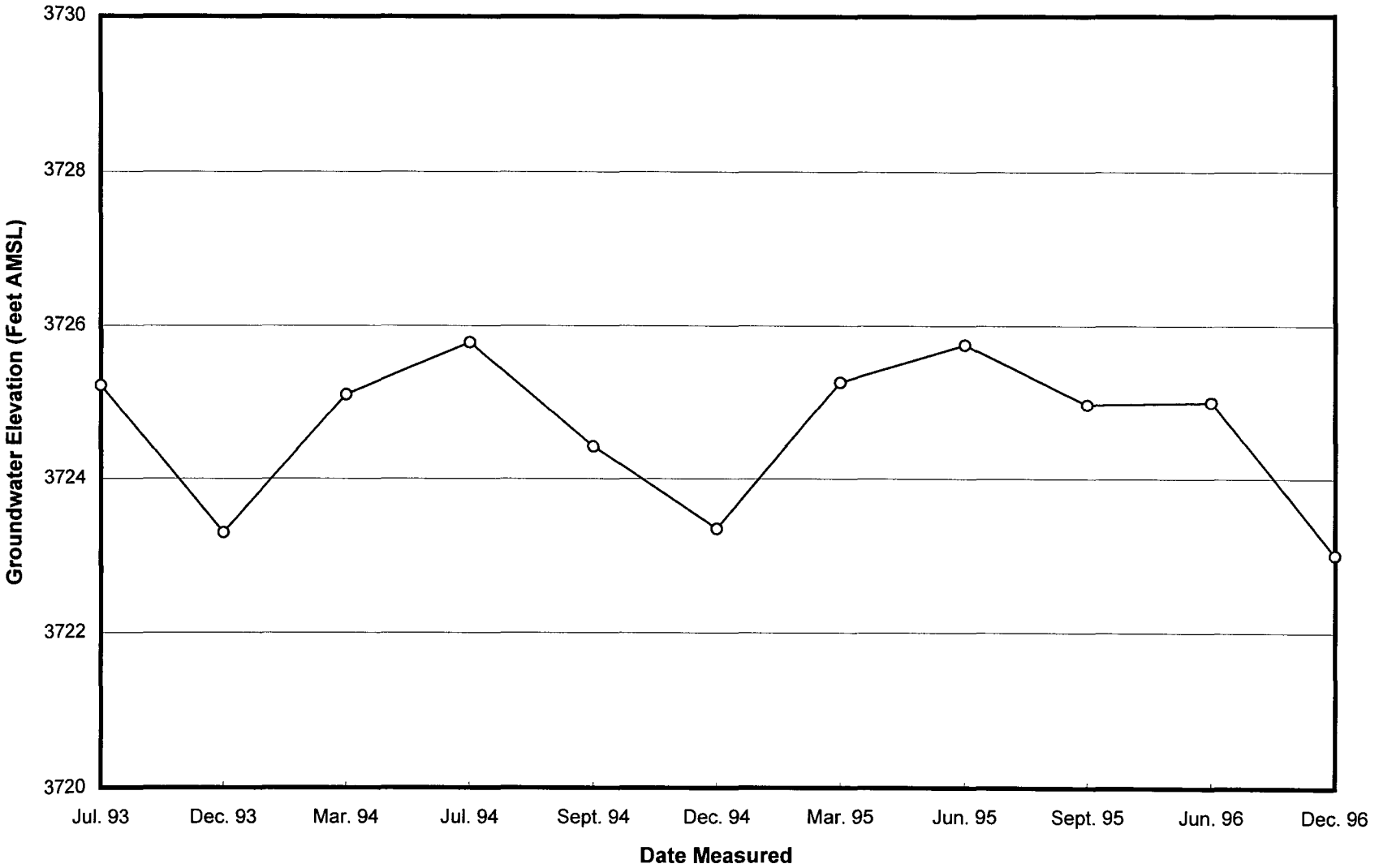
SEMIANN2.XLS:MW-2 WL

Figure 2 (Cont.)
Brickland Refinery
MW-3S Groundwater Elevation Over Time



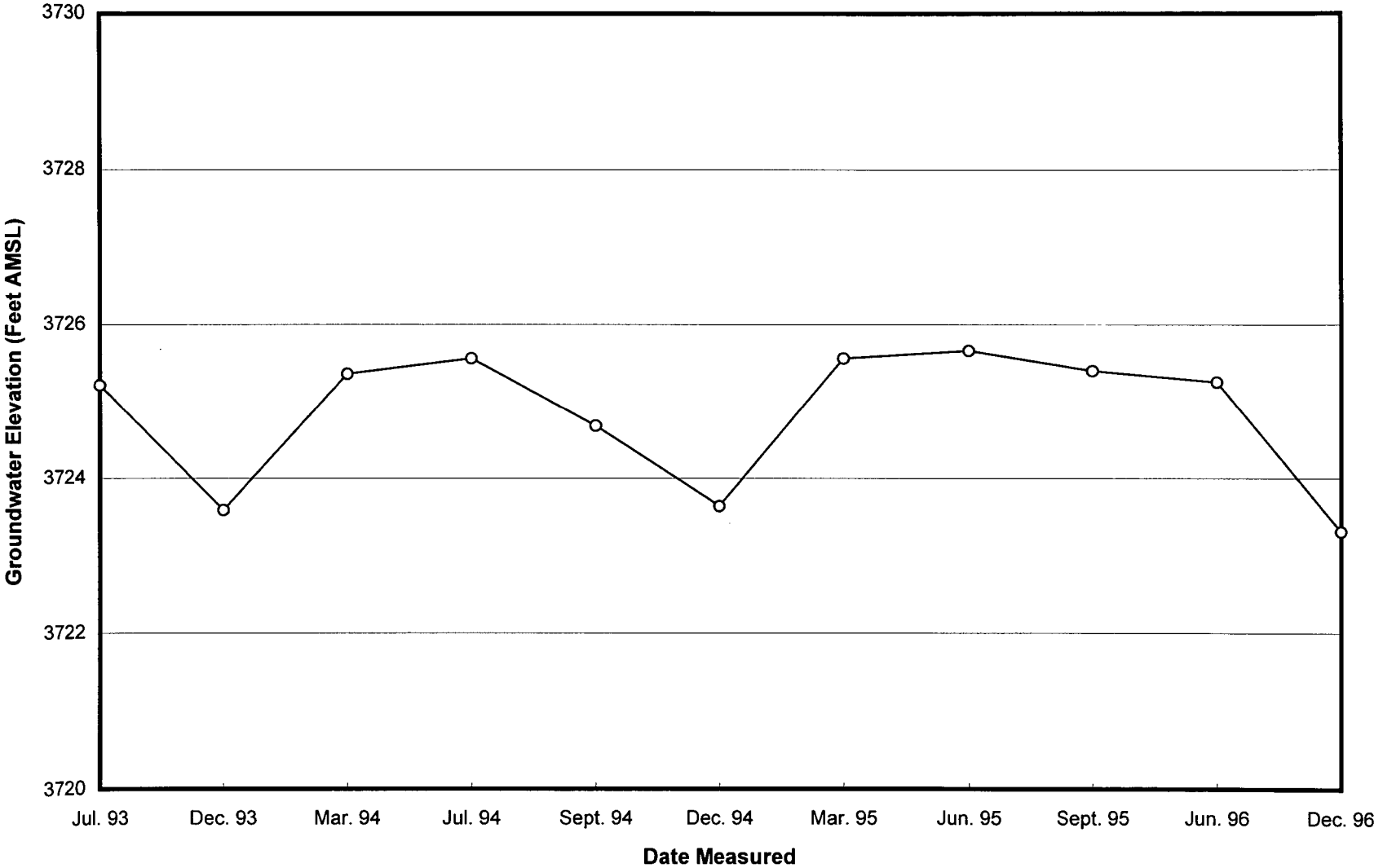
SEMIANN2.XLS:MW-3S WL

Figure 2 (Cont.)
Brickland Refinery
MW-3D Groundwater Elevation Over Time



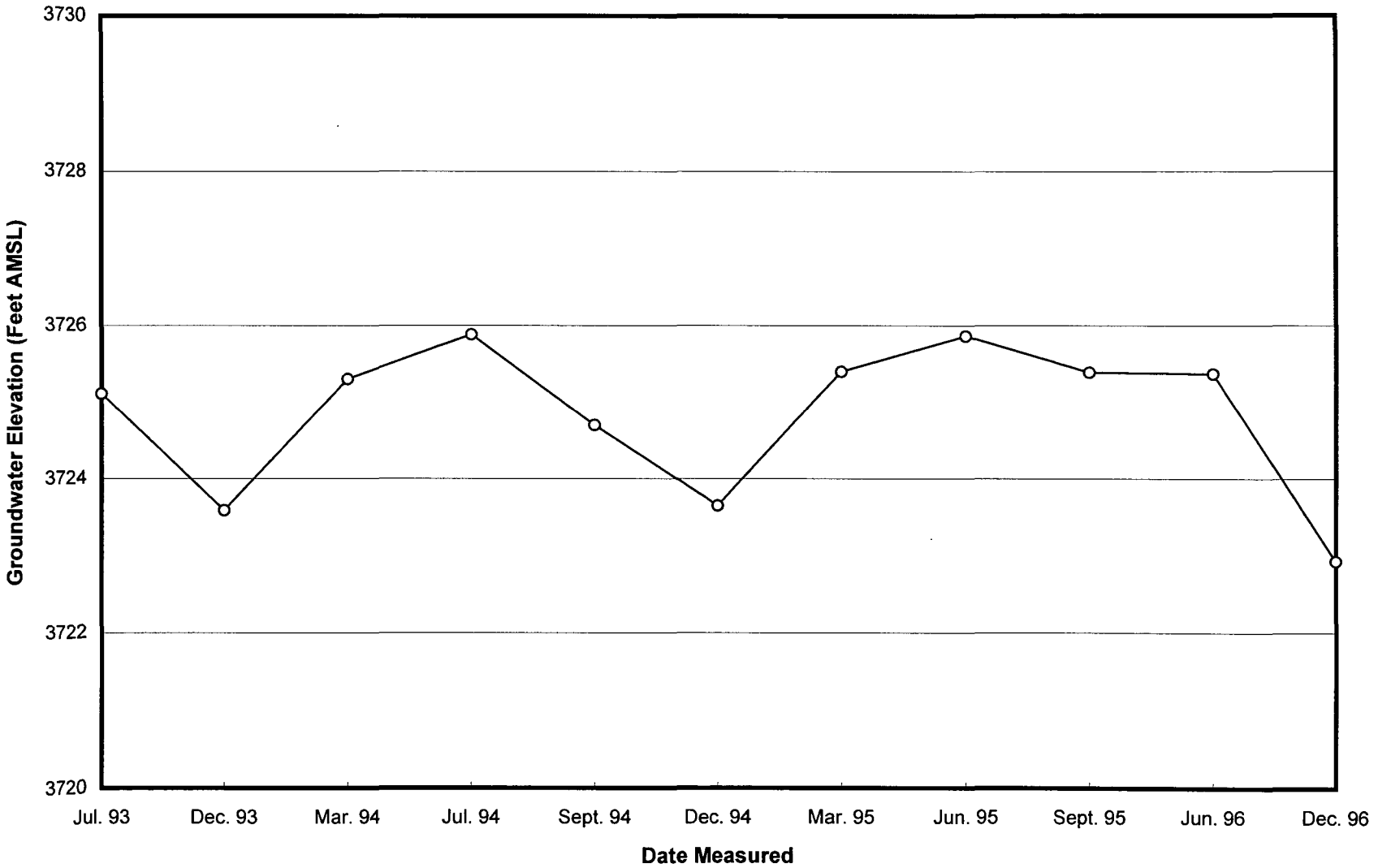
SEMIANN2.XLS:MW-3D WL

Figure 2 (Cont.)
Brickland Refinery
MW-4 Groundwater Elevation Over Time



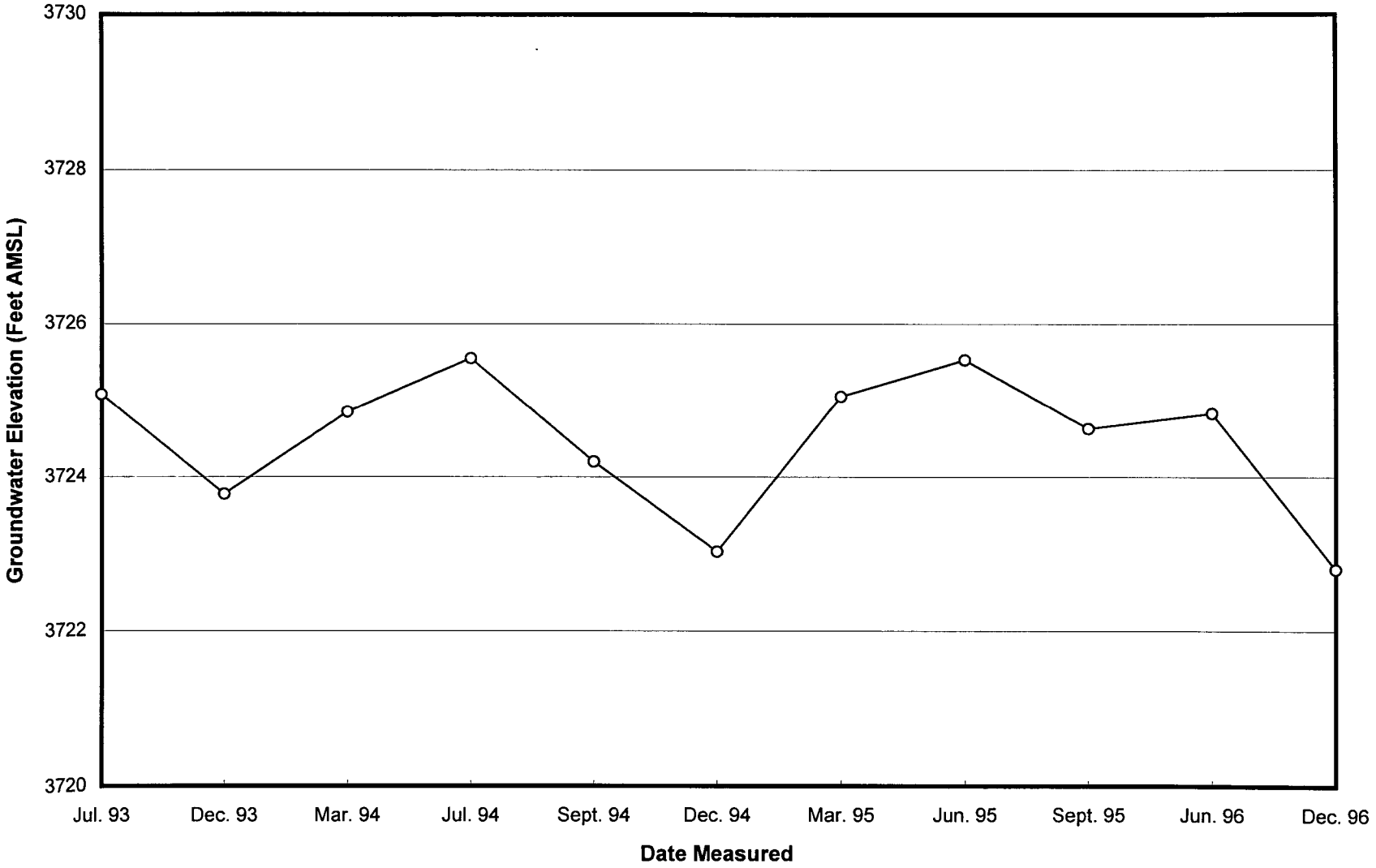
SEMIANN2.XLS:MW-4 WL

Figure 2 (Cont.)
Brickland Refinery
MW-5 Groundwater Elevation Over Time



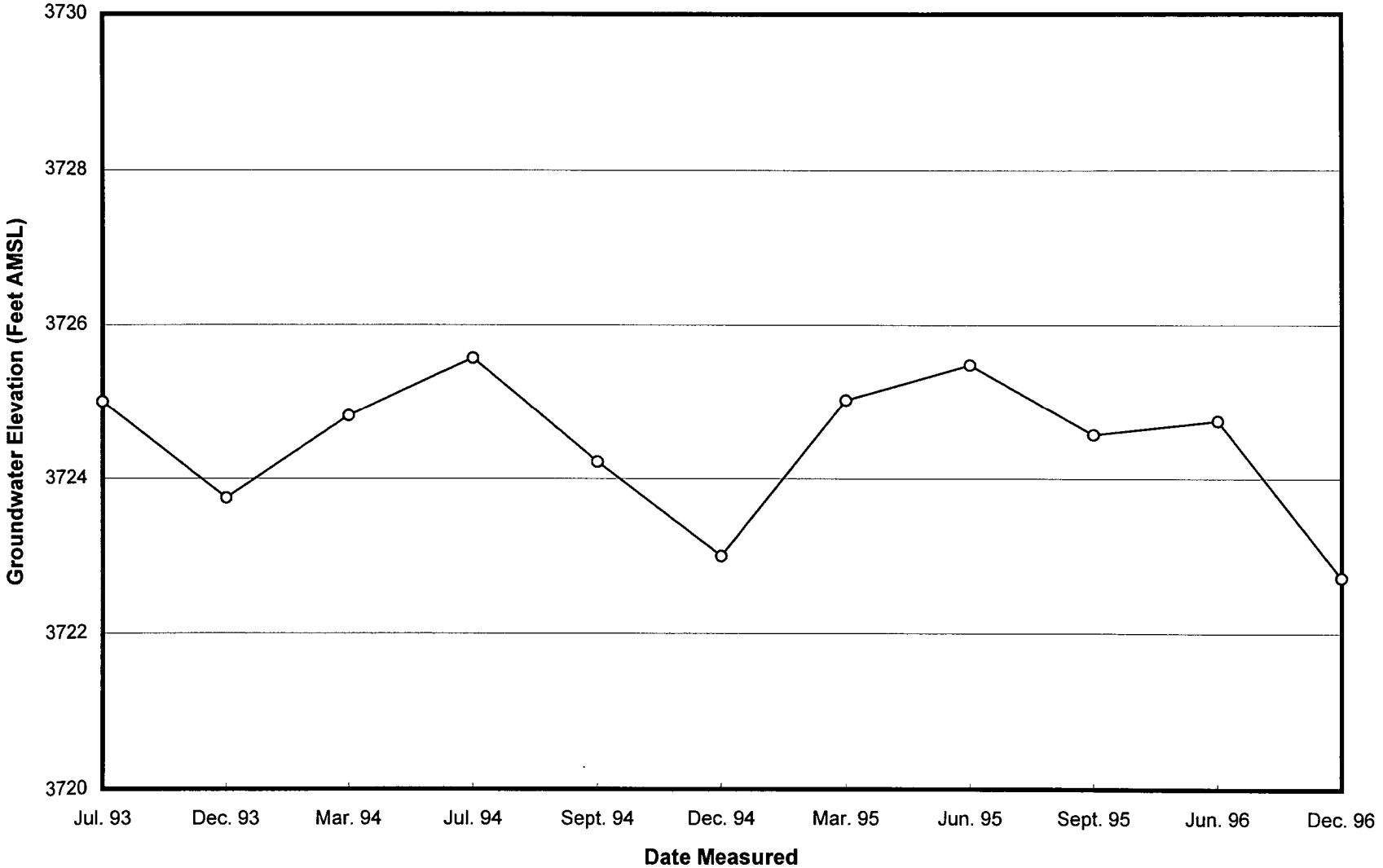
SEMIANN2.XLS:MW-5 WL

Figure 2 (Cont.)
Brickland Refinery
MW-6S Groundwater Elevation Over Time



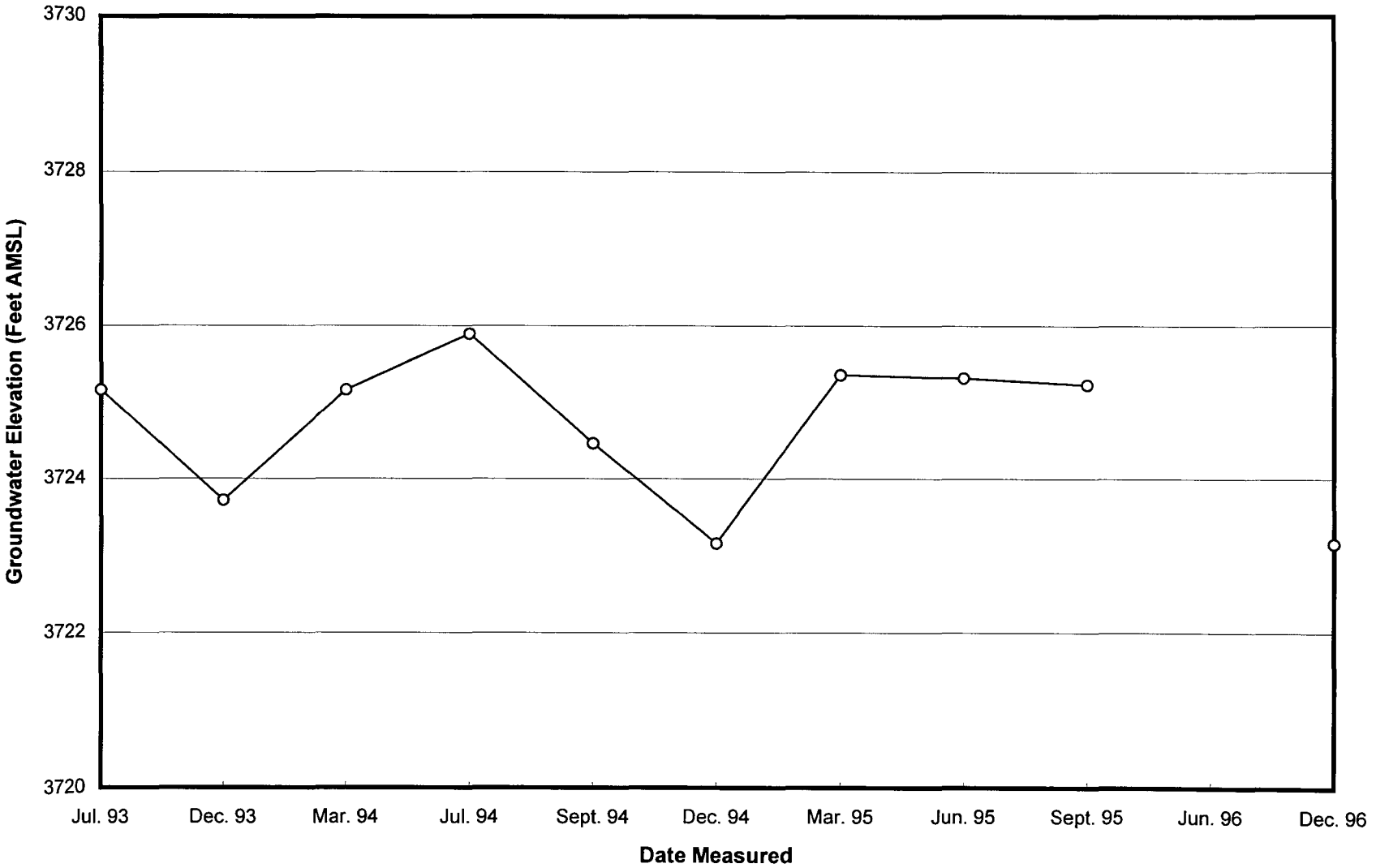
SEMIANN2.XLS:MW-6S WL

Figure 2 (Cont.)
Brickland Refinery
MW-6D Groundwater Elevation Over Time



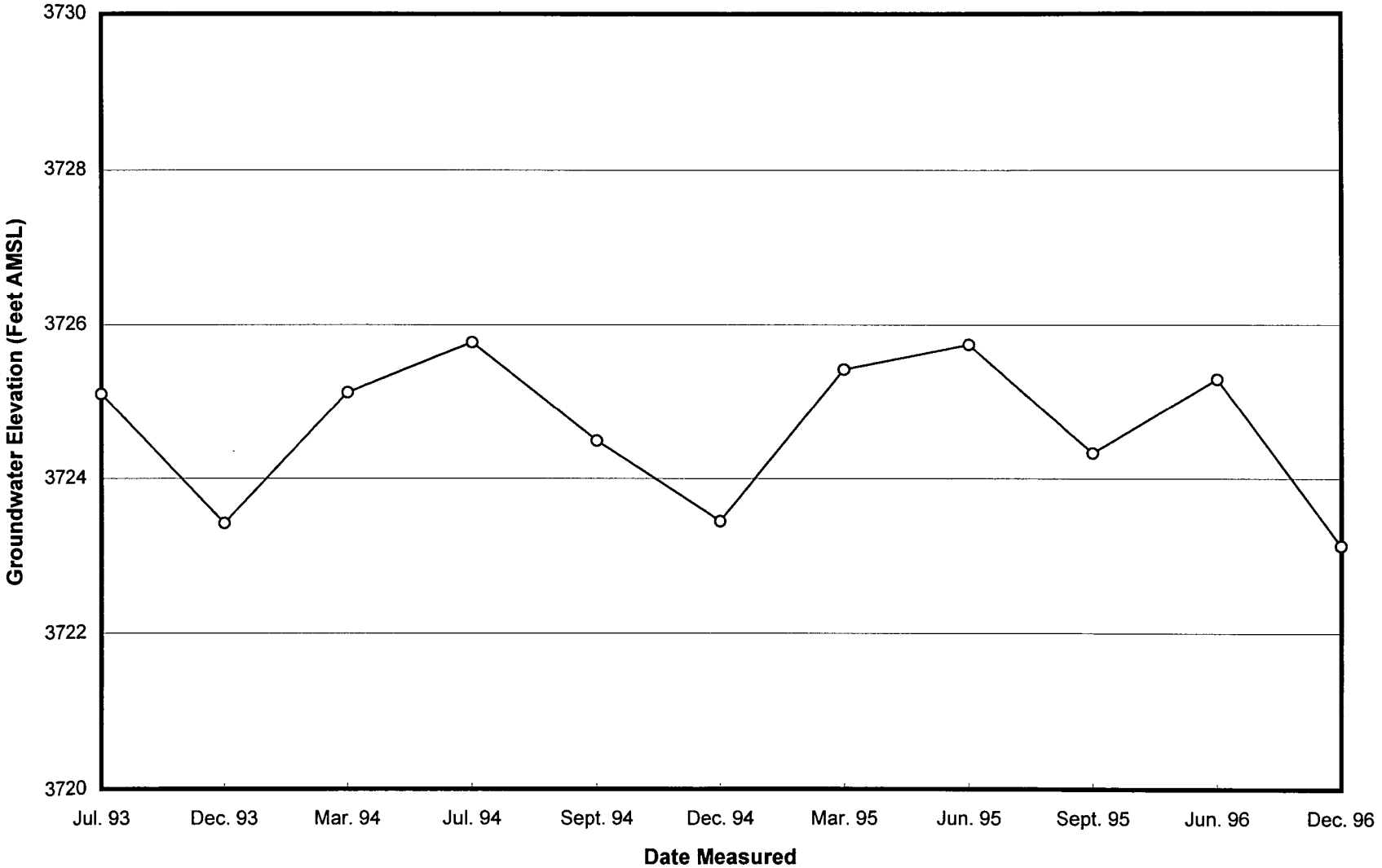
SEMIANN2.XLS:MW-6D WL

Figure 2 (Cont.)
Brickland Refinery
MW-7 Groundwater Elevation Over Time



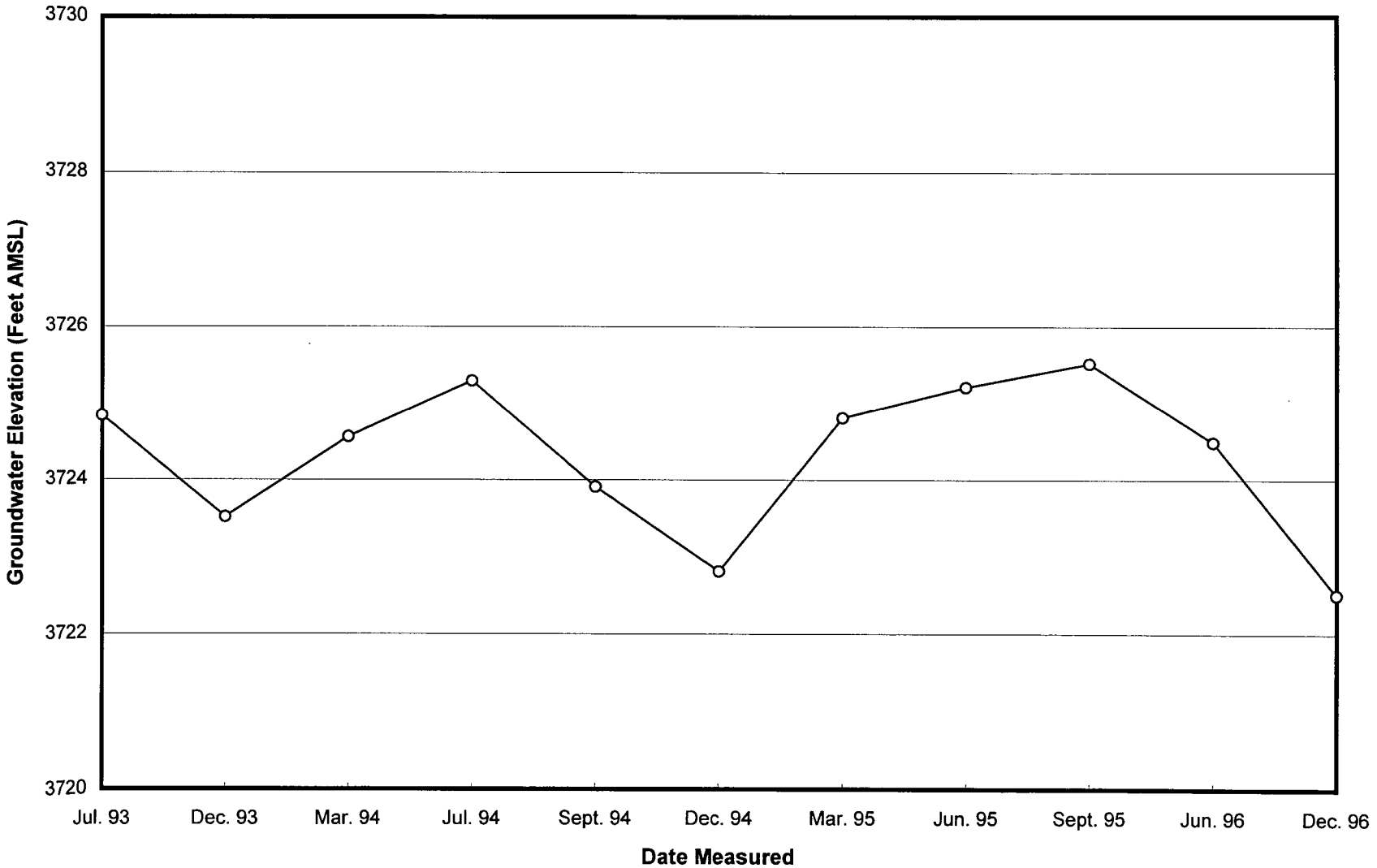
SEMIANN2.XLS:MW-7 WL

Figure 2 (Cont.)
Brickland Refinery
MW-8 Groundwater Elevation Over Time



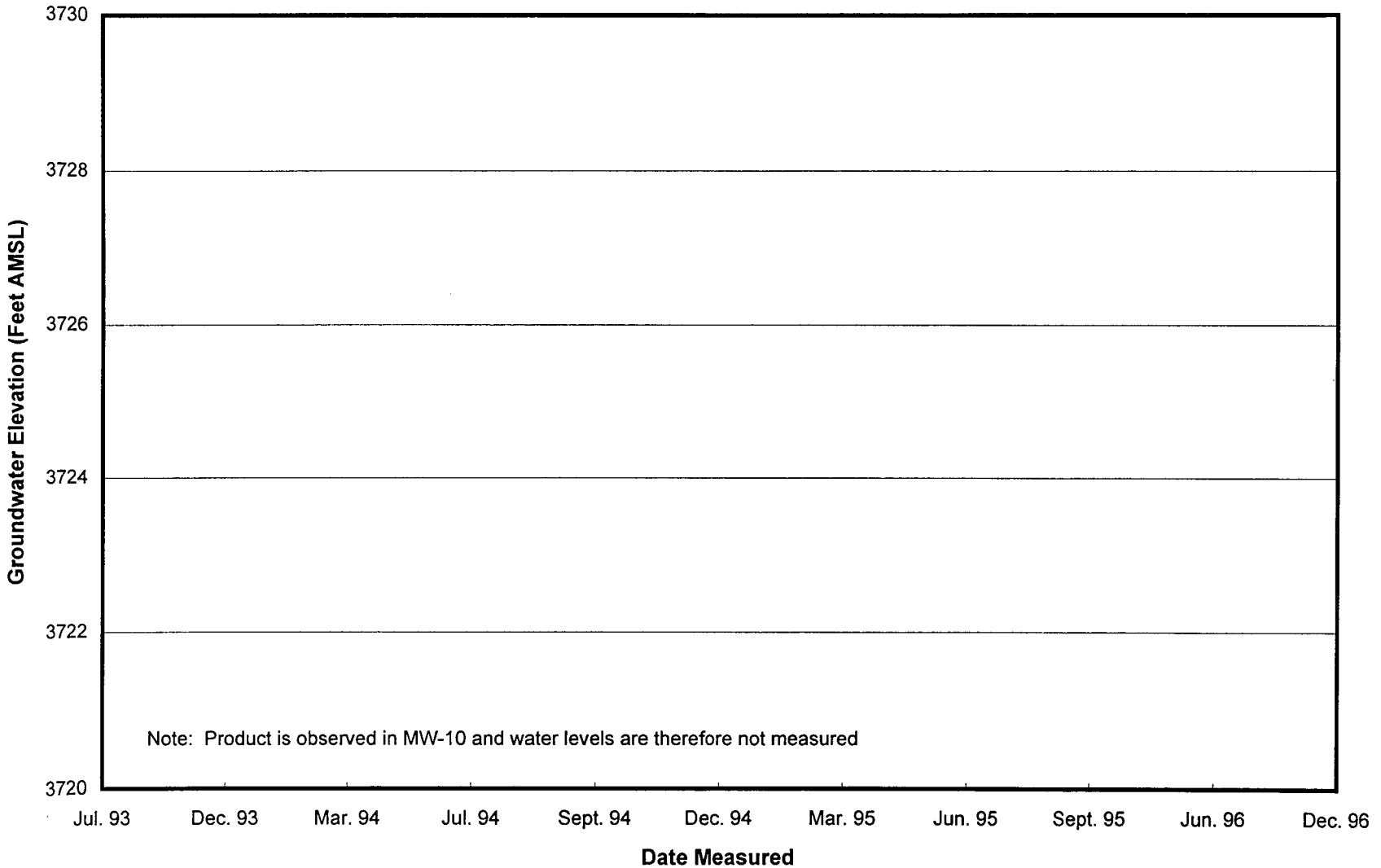
SEMIANN2.XLS:MW-8 WL

Figure 2 (Cont.)
Brickland Refinery
MW-9S Groundwater Elevation Over Time



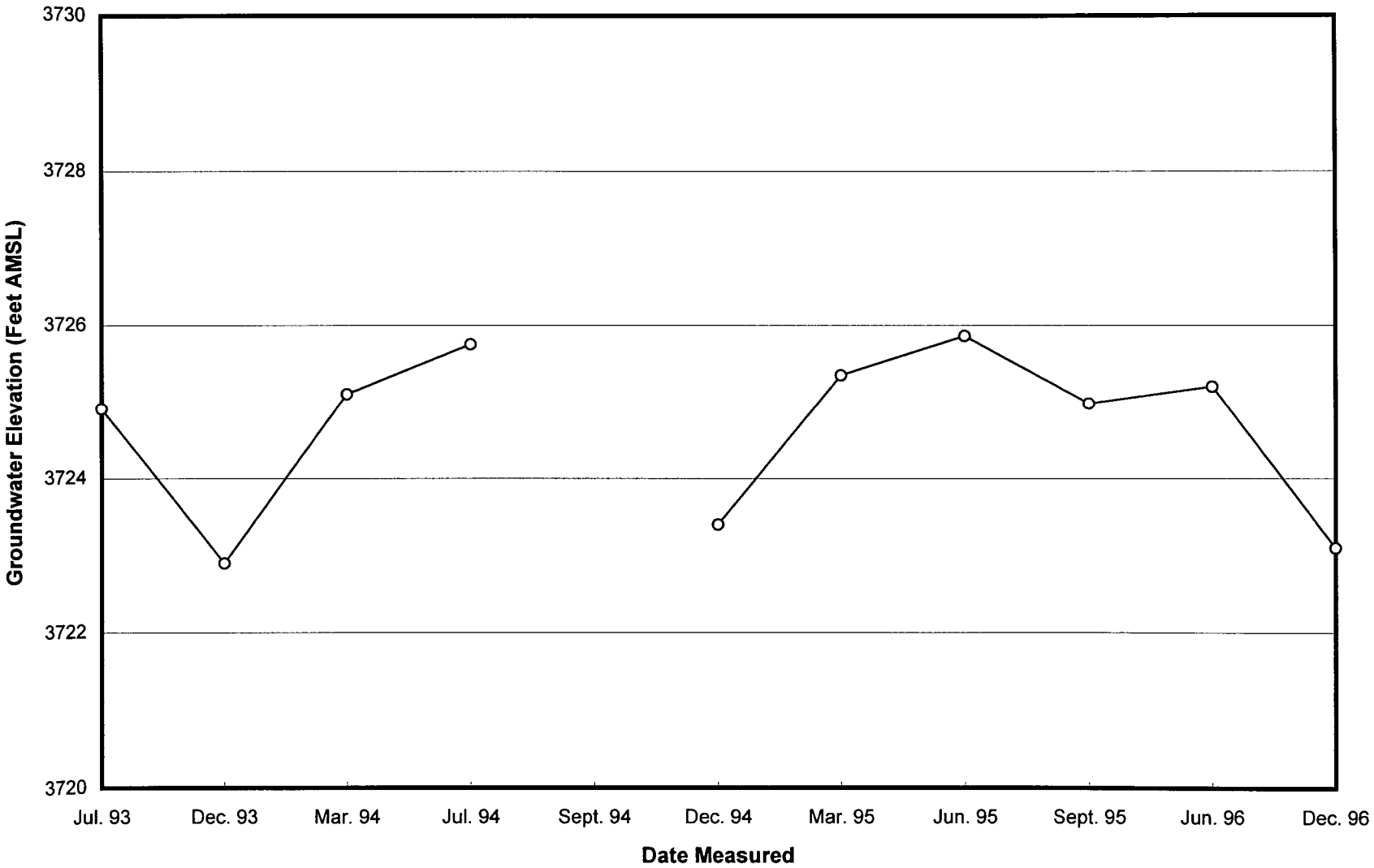
SEMIANN2.XLS:MW-9S WL

Figure 2 (Cont.)
Brickland Refinery
MW-10 Groundwater Elevation Over Time



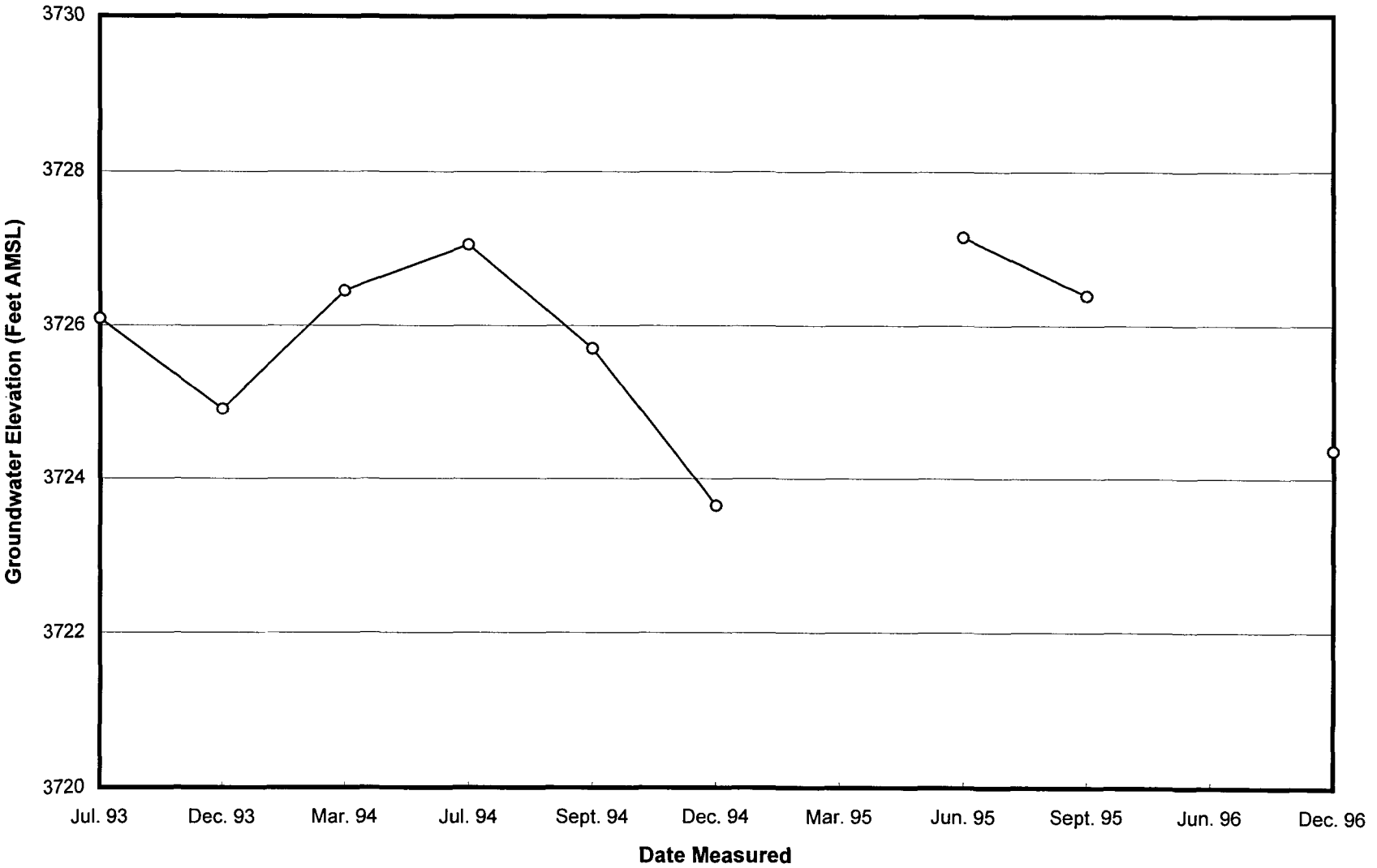
SEMIANN2.XLS:MW-10 WL

Figure 2 (Cont.)
Brickland Refinery
MW-11 Groundwater Elevation Over Time



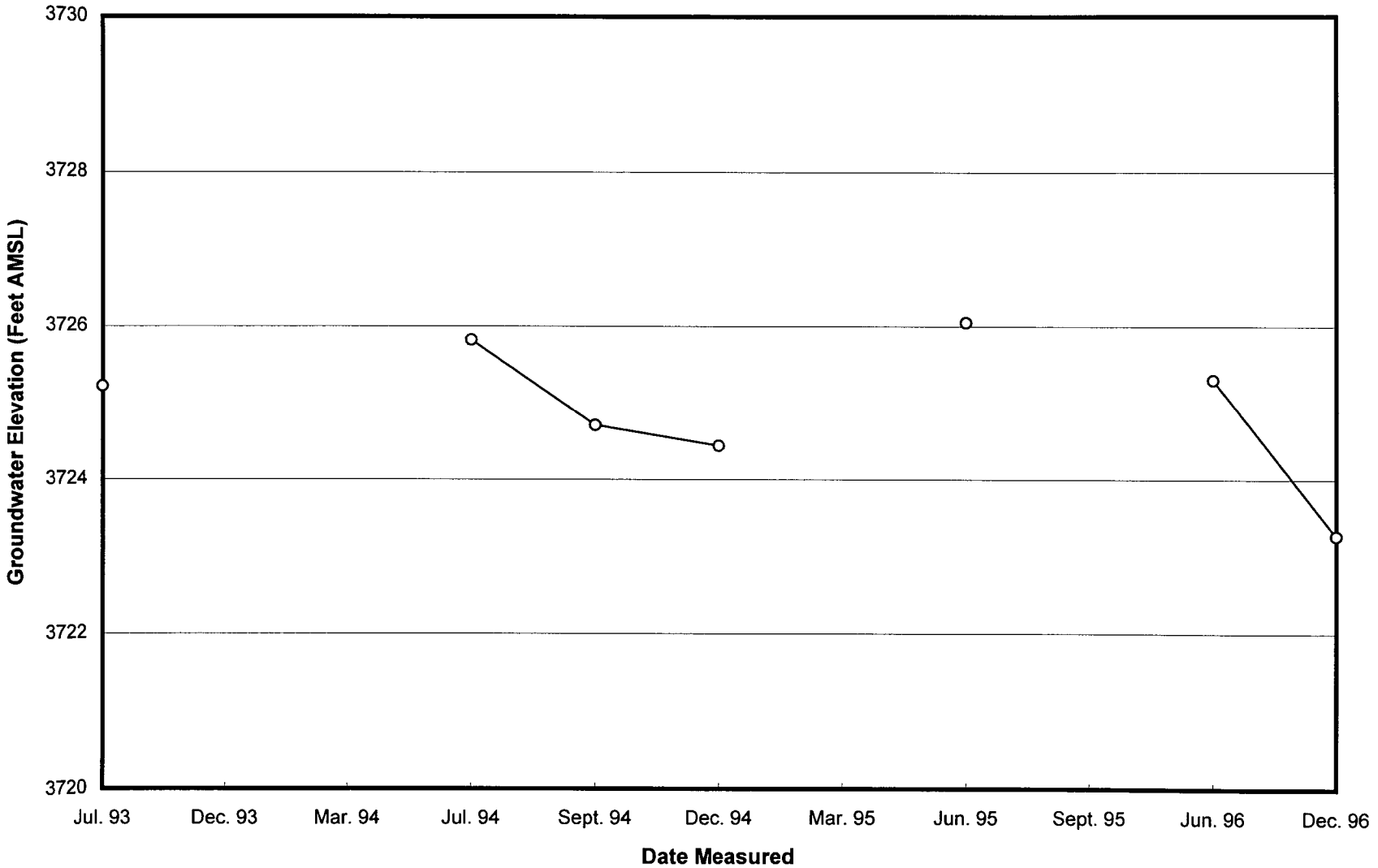
SEMIANN2.XLS:MW-11 WL

Figure 2 (Cont.)
Brickland Refinery
MW-12 Groundwater Elevation Over Time



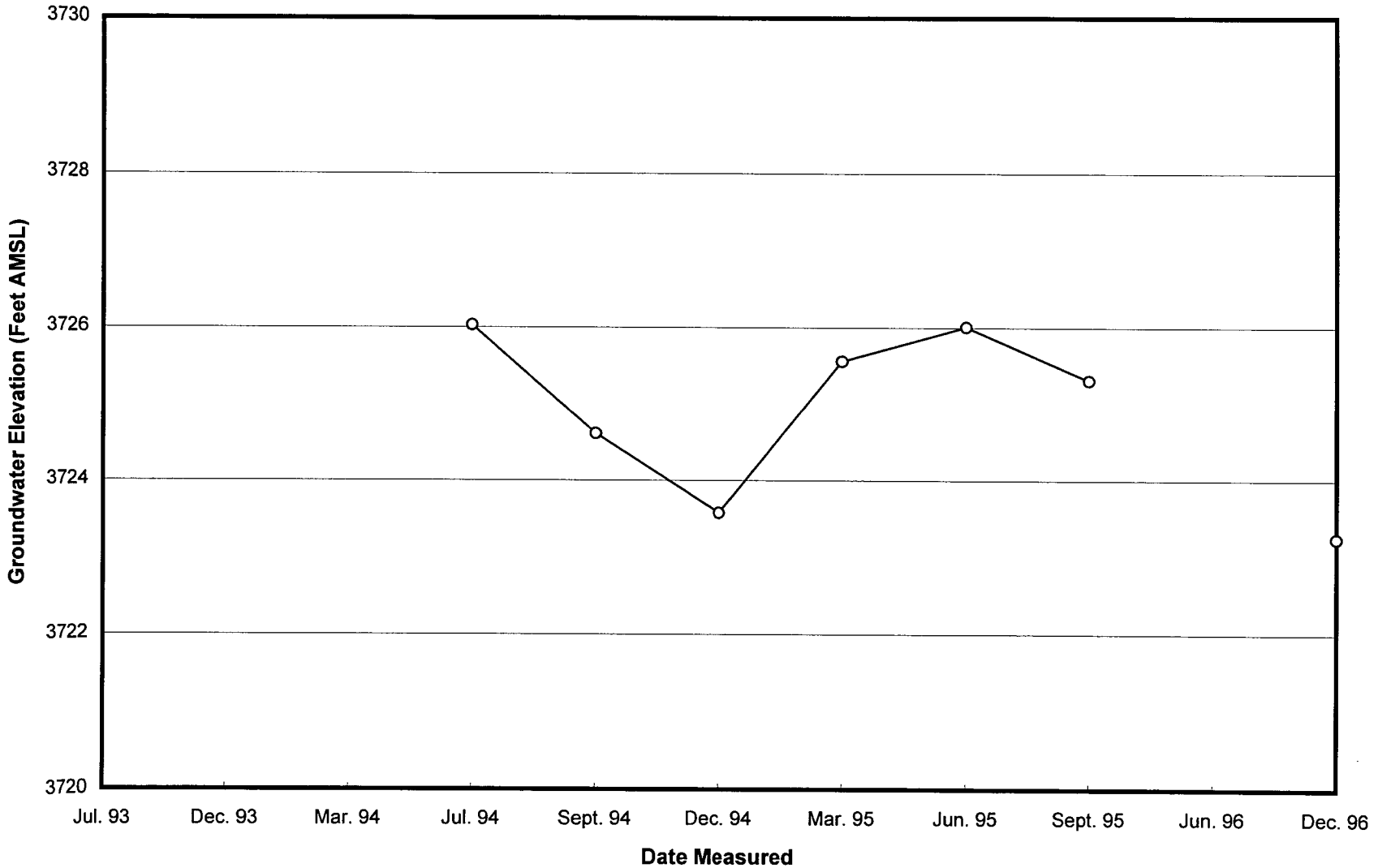
SEMIANN2.XLS:MW-12 WL

Figure 2 (Cont.)
Brickland Refinery
MW-13 Groundwater Elevation Over Time



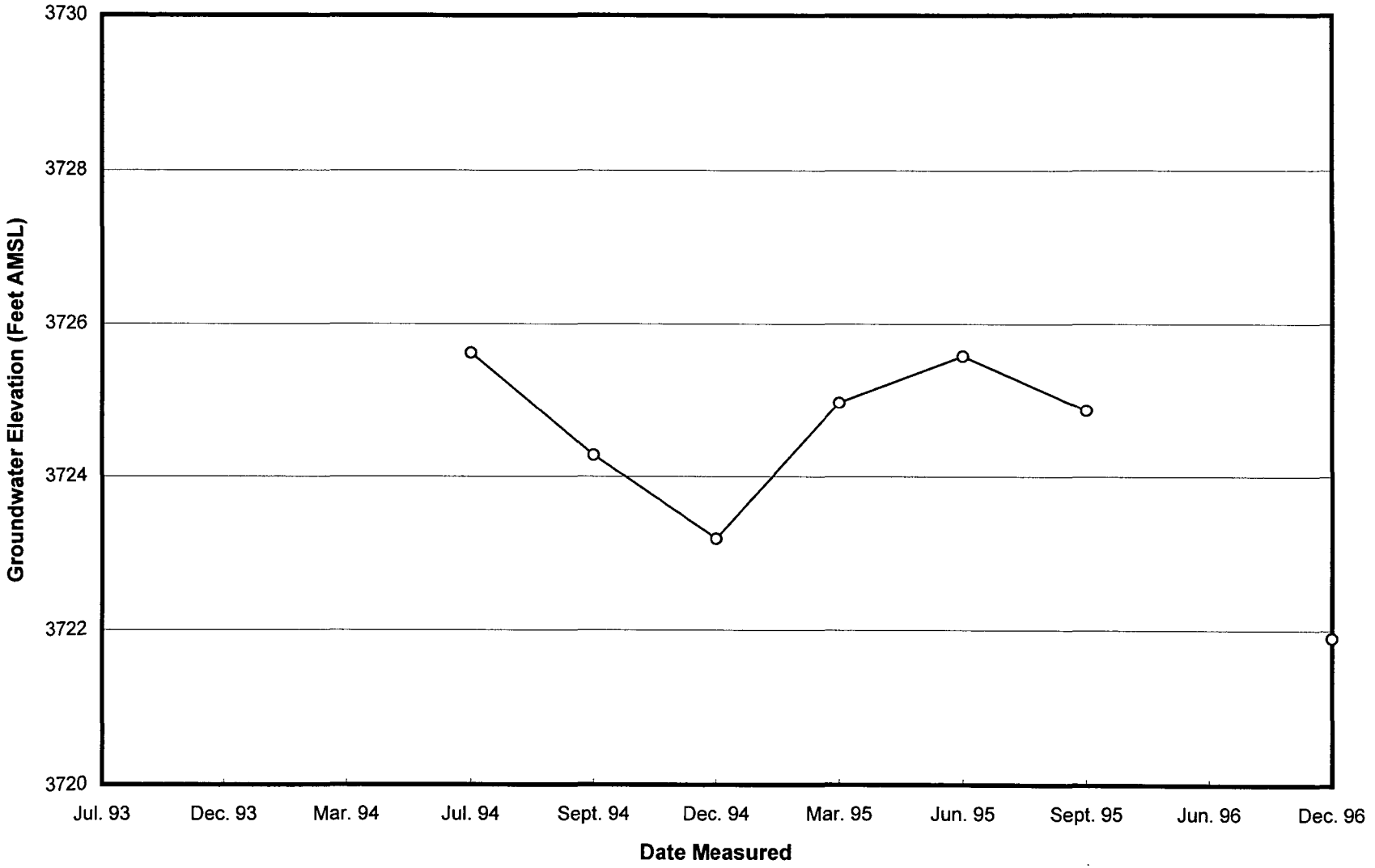
SEMIANN2.XLS:MW-13 WL

Figure 2 (Cont.)
Brickland Refinery
MW-14 Groundwater Elevation Over Time



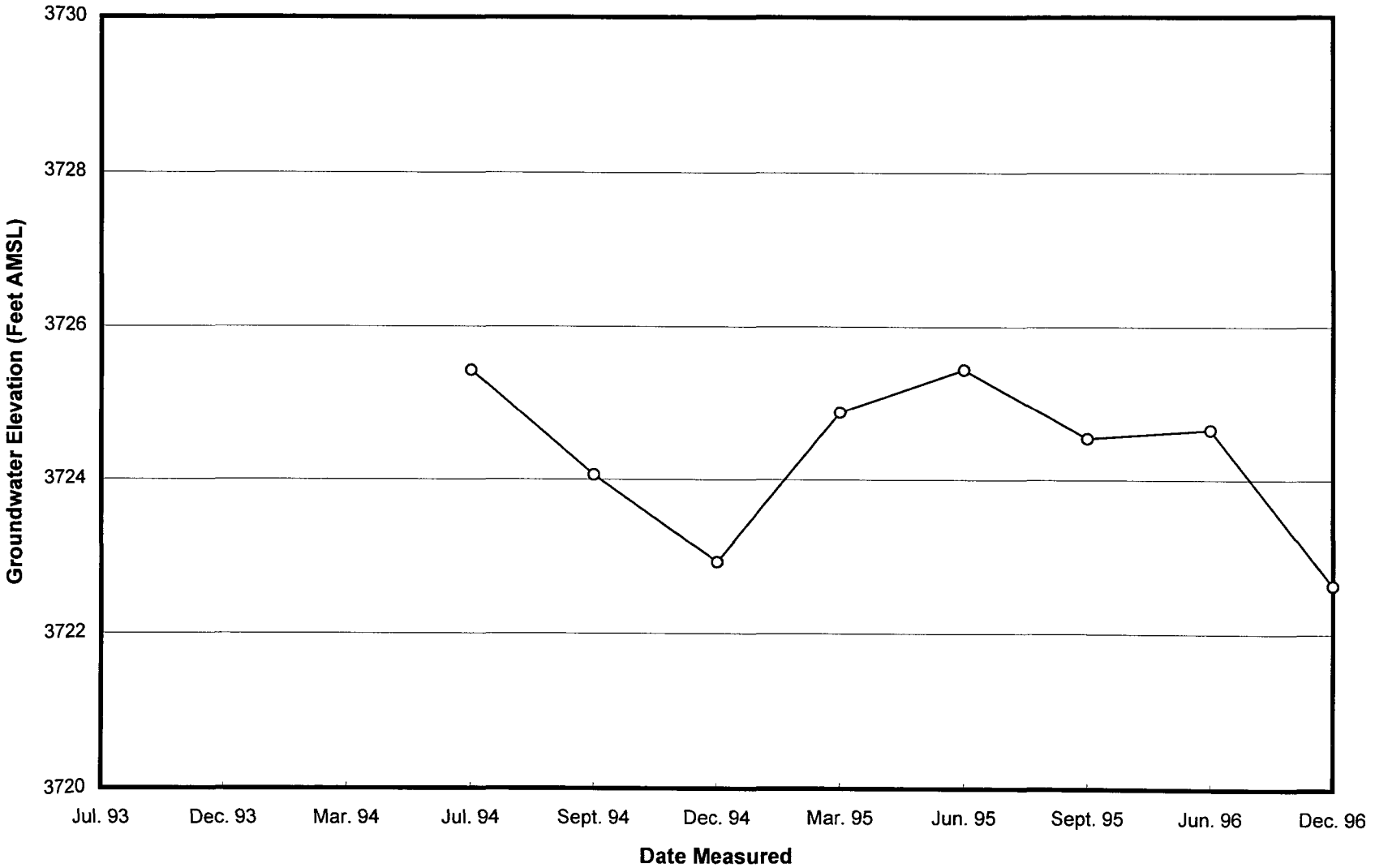
SEMIANN2.XLS:MW-14 WL

Figure 2 (Cont.)
Brickland Refinery
MW-15 Groundwater Elevation Over Time



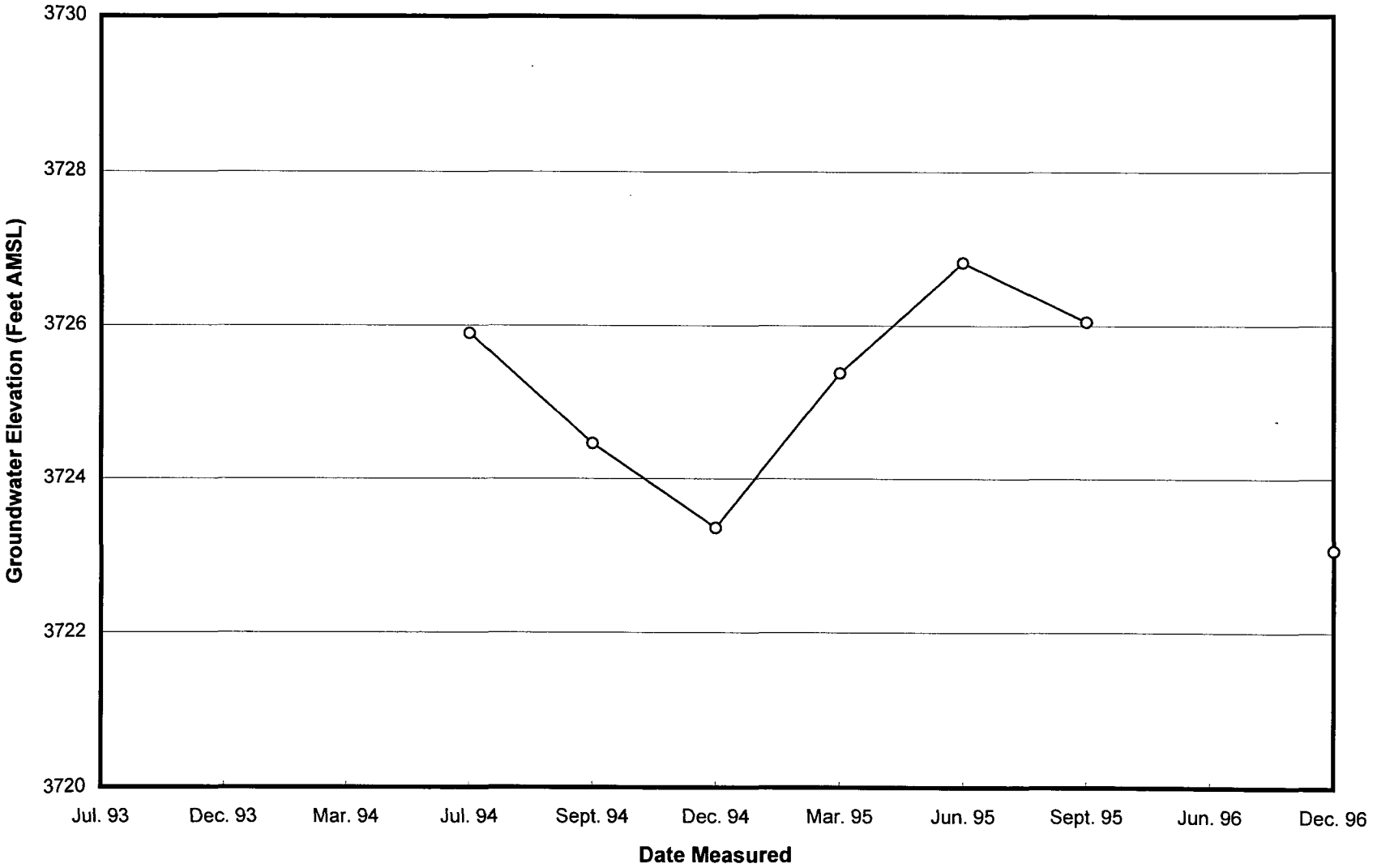
SEMIANN2.XLS:MW-15 WL

Figure 2 (Cont.)
Brickland Refinery
MW-16 Groundwater Elevation Over Time

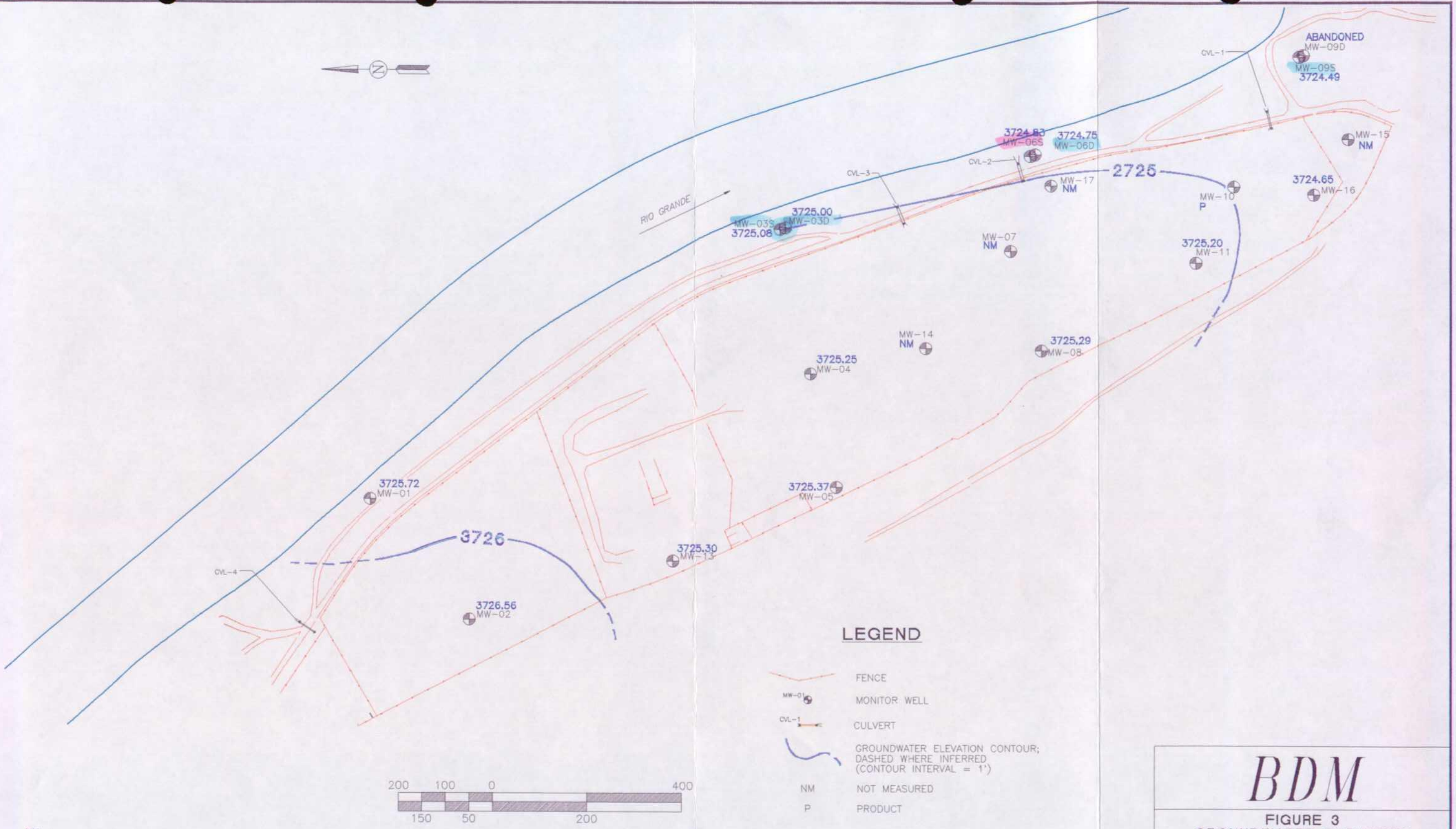


SEMIANN2.XLS:MW-16 WL

Figure 2 (Cont.)
Brickland Refinery
MW-17 Groundwater Elevation Over Time



SEMIANN2.XLS:MW-17 WL



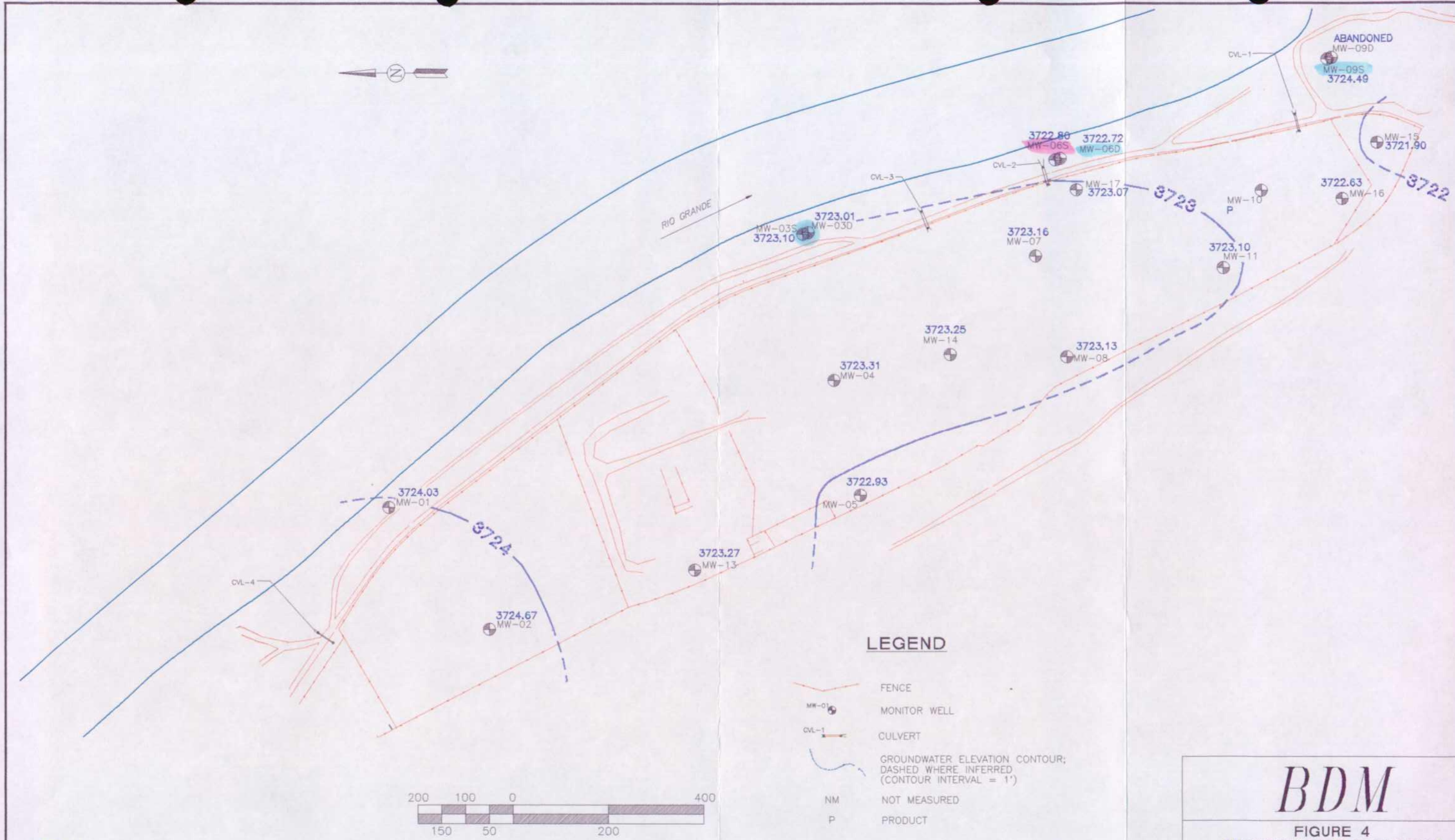
LEGEND

- FENCE
- MW-01 — MONITOR WELL
- CVL-1 — CULVERT
- GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (CONTOUR INTERVAL = 1')
- NM — NOT MEASURED
- P — PRODUCT

BDM

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP (JUNE 1996)
BRICKLAND REFINERY SITE

CLIENT: REXENE	
AUTHOR: RWH	DATE: 1/15/96
DRAWN BY: FJG	REV. NO.: 0
CHECKED BY: NKA	FILE: D:\REXENE\GWEL0696



LEGEND

- FENCE
- MW-01 MONITOR WELL
- CVL-1 CULVERT
- GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (CONTOUR INTERVAL = 1')
- NM NOT MEASURED
- P PRODUCT

BDM

FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP (DECEMBER 1996) BRICKLAND REFINERY SITE

CLIENT: REXENE	
AUTHOR: RWH	DATE: 1/15/96
DRAWN BY: FJG	REV. NO.: 0
CHECKED BY: NKA	FILE: D:\REXENE\GWEL1296