



September 2, 2025

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**Re: 2025 Interim Groundwater Monitoring Report**

Bloomfield Crude Station

Bloomfield, New Mexico

Western Refining Southwest LLC, Marathon Petroleum Company LP

NMOCD Environmental Order: 3RP-258

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Western Refining Southwest LLC (Western), presents this *2025 Interim Groundwater Monitoring Report* for the Bloomfield Crude Station (Site). The Site is located on private land at the southwest corner of West Blanco Boulevard and North 5th Street in Bloomfield, New Mexico (Figure 1). This report was prepared at the request of the New Mexico Oil Conservation Division (NMOCD) and documents groundwater monitoring activities conducted at the Site since September 2022, which was the last reported monitoring event submitted to the NMOCD in the *2022 Site Investigation and Remediation Work Plan* dated February 14, 2023.

**SITE BACKGROUND**

The Site is within the city limits of Bloomfield, New Mexico, as depicted on Figure 1. The surrounding properties are a mix of residential, commercial, and industrial uses. The Site was first leased for oil and gas exploration and production in 1929. Since then, the Site has been owned and leased by several companies including Aerex Refining, Plateau Refining, Shell Oil Company, El Paso Products, Malco, Clayton Investment of Thriftway Marketing, Giant Industries Arizona, Inc. (Giant), and Western. Over the years, these companies have operated various process units and tanks on or near the Site, including for refining operations.

In 1994, a 55,000-barrel (bbl) above ground storage tank (AST) identified as Tank 967-D and used to store crude oil was removed from the Site. After removal, soil samples were collected and indicated the presence of historical petroleum hydrocarbons impacts in the soil surrounding the tank. While cleaning the tank for decommissioning in December of 1995, the AST caught fire and released tank-bottom material, as well as lead-based paint from the exterior of the tank. The tank-bottom material and paint chips were removed from the Site by vacuum truck. Soil samples were collected following removal and confirmed this second release did not contribute to additional soil and/or groundwater impacts at the Site. To address the historical soil impacts originating from the tank, 12,924 cubic yards of impacted soil were excavated to depths up to 18 feet below ground surface (bgs) in August 2000 (excavation extent shown on Figure 2). Soil samples were collected from the floor and sidewalls of the excavation, which indicated elevated petroleum hydrocarbon concentrations remained in several areas of the excavation. Excavation results were summarized in the *Report for Remediation Excavation Work Performed During*

*August 2000 for the Bloomfield Crude Station*, prepared by Philip Services Corp and dated October 2000.

To address the impacts remaining in the soil, a bioventing system was installed around the perimeter of the excavation extent and was operated between 2002 and 2012. This bioventing system was used to introduce oxygen to the subsurface and enhance the natural biological activity and remediate residual impacts through bioremediation.

To assess groundwater and potential impacts from the historical releases, seven groundwater monitoring wells, MW-1 through MW-7, were installed at the Site between 1994 and 2000. Phase separated hydrocarbons (PSH) were discovered in well MW-2 and elevated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) were encountered in wells MW-6 and MW-7. Well MW-1 never produced sufficient groundwater for sampling and was decommissioned in August of 2000. To address the PSH and dissolved BTEX concentrations detected in groundwater and as approved by the NMOCD, an air sparge well was installed in close proximity to well MW-2 in order to volatilize contaminants and introduce oxygen to the saturated zone to enhance the natural biological activity and remediate residual impacts through bioremediation. Additionally, elevated concentrations of dissolved BTEX constituents detected in wells MW-6 and MW-7 attenuated to below New Mexico Water Quality Control Commission (NMWQCC) groundwater standards between May 2001 and November 2017, with no indications of PSH present during this time period; however, PSH was first detected in well MW-7 in May 2018 and has intermittently been present in measurable quantities from May 2018 to August 2024. Ongoing monitoring has been performed to assess the presence of PSH in well MW-7 and is further discussed below.

## ONGOING GROUNDWATER MONITORING ACTIVITIES

Annual groundwater monitoring and sampling was conducted between 1994 and 2013 to monitor groundwater conditions in wells MW-2 through MW-7. Western ceased sampling activities between 2013 and 2017 while engaging with the NMOCD on Site closure. Annual groundwater was again conducted in 2017 and 2018 to monitor dissolved BTEX concentrations in well MW-7. Western submitted a *Request for Closure* report to the NMOCD on August 10, 2018, summarizing the historical analytical data collected at the Site with a request of No Further Action from the NMOCD. In a letter dated August 10, 2018, NMOCD responded with a request for Western to continue monitoring groundwater elevations and the presence of PSH in Site wells.

In accordance with NMOCD's request, Site wells have been monitored for depth to water and depth to PSH on a regular basis. PSH was first encountered in well MW-7 in September 2018 after 17 years of continuous monitoring. Between March 2019 and July 2025, Site wells were monitored on a weekly to quarterly basis to assess the presence of PSH. Depth to water and depth to PSH measurements collected at the Site are presented on attached Table 1. A graph presenting groundwater elevations and PSH thickness over time in well MW-7 is presented in Graph 1. Interpreted groundwater elevation contours are presented for June 2025 on Figure 3. Since groundwater monitoring began, groundwater flow direction is consistent to the southwest.

Of note, during the July 2025 monitoring event, Ensolum discovered that well MW-7 had been destroyed sometime between the June and July 2025 Site visits. The area west of the Site and on the former Aerex Refinery property appeared to have been cleared of vegetation and graded flat. Large pieces of concrete were found in the area of MW-7 that were likely associated with the well monument indicating that well MW-7 has been destroyed beyond repair.

## FINDINGS AND CONCLUSIONS

Wells MW-2 through MW-5 were installed in 1994 and 1995 to assess groundwater conditions and the potential presence of impacts from the historical AST release. PSH and/or dissolved BTEX concentrations exceeding the NMWQCC groundwater standards were present in well MW-2 between 1994 and April 2007. Concentrations of BTEX and/or the presence of PSH were never detected above NMWQCC groundwater standards in wells MW-3 through MW-5. In 2001, wells MW-6 and MW-7 were installed in downgradient/cross-gradient locations to assess potential impacts to the west and southwest of the Site. Benzene and xylene concentrations were detected at varying concentrations in well MW-6 between 2001 and 2011. Site remediation activities and natural attenuation processes reduced contaminant concentrations, and BTEX constituents have been in compliance with NMWQCC groundwater standards since 2011.

Concentrations of benzene and xylenes were present in well MW-7 at concentrations exceeding NMWQCC standards between 2001 and March 2013. Sampling in November 2017 indicated dissolved BTEX concentrations were in compliance with NMWQCC groundwater standards; however, PSH was encountered in well MW-7 in May 2018 for the first time since it was installed in 2001. Since September 2018, the presence of PSH in well MW-7 has been inconsistent with varying thicknesses and times of year encountered. As presented on Graph 1, the presence of PSH has generally been associated with a decrease in groundwater elevations in MW-7. In order to assess the presence of dissolved-phase constituents in MW-7, groundwater had been sampled and analyzed for BTEX in February 2020, March 2020, and July 2021 when PSH was not present in the well. Analytical results indicated BTEX constituents were not present above the NMWQCC standards in groundwater in MW-7.

Generally, as the groundwater table falls, PSH entrained in pore space below the water table is freed, allowing it to flow into the well. As the water table rises, PSH is entrapped in the saturated soil and the apparent thickness of PSH decreases. As explained in the Interstate Technology Regulatory Council (ITRC) guidance on Light Non-Aqueous Phase Liquids (LNAPL-3), this is a common occurrence in unconfined aquifer conditions. In association with the Site, it appears residual PSH is present in the capillary fringe zone, or smear zone, near MW-7, but the BTEX constituents are not detectable as dissolved phase. Groundwater analytical results collected at the Site, including historical results, are summarized in Table 2. Analytical results collected by EA Engineering are also presented in Table 2.

We appreciate the opportunity to provide this report and look forward to working with you on this project. If you should have any questions or comments regarding this proposal, please contact the undersigned.

Sincerely,  
**Ensolum, LLC**



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Senior Managing Geologist  
(970) 903-1607  
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Western Refining Southwest LLC  
2025 Interim Groundwater Monitoring Report  
Bloomfield Crude Station

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**Attachments:**

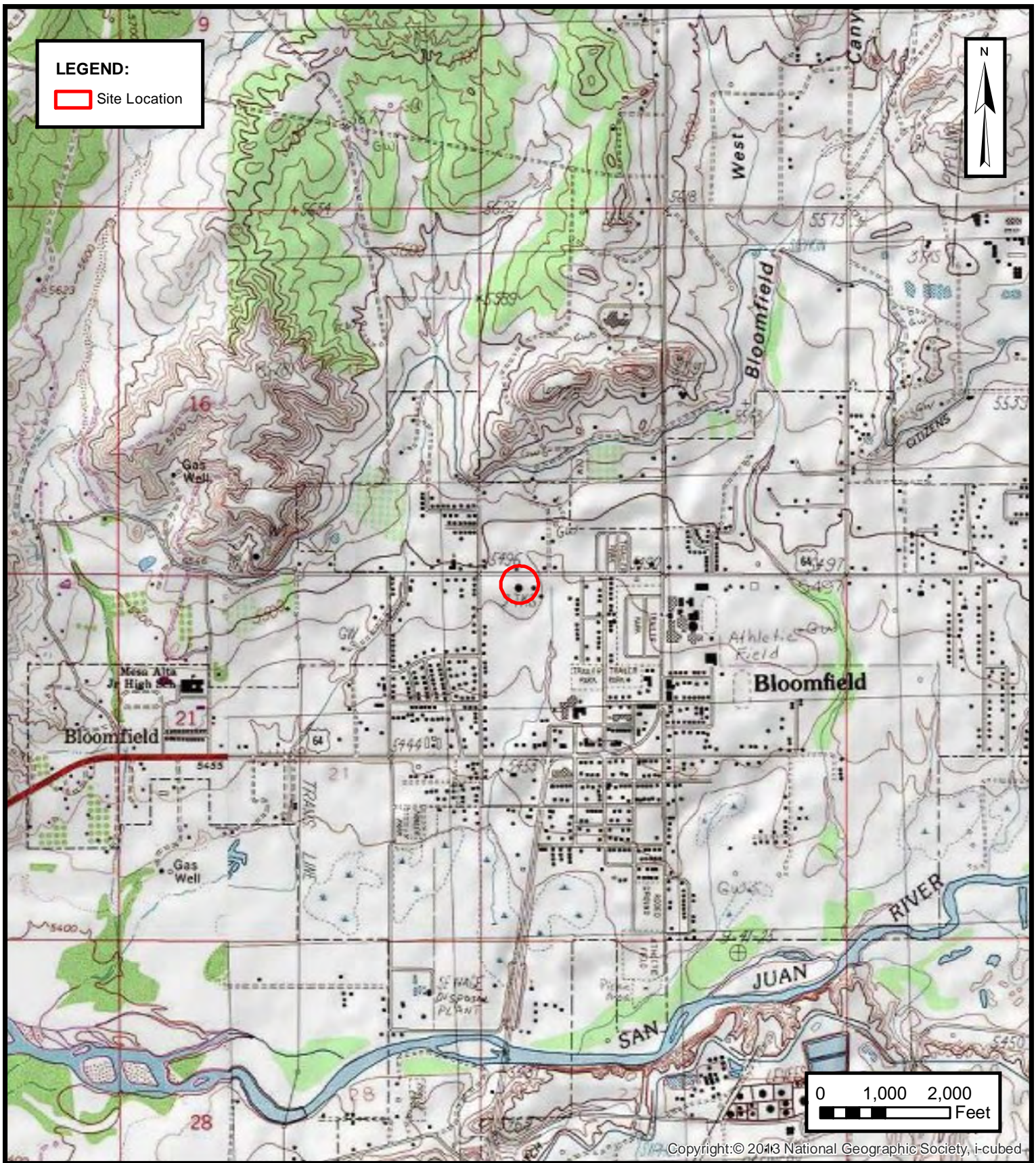
Figure 1: Site Location  
Figure 2: Site Map  
Figure 3: Groundwater Elevation Contours June 2025

Table 1: Groundwater Elevation Data  
Table 2: Groundwater Analytical Results  
Graph 1: MW-7 PSH Thickness Over Time



FIGURES



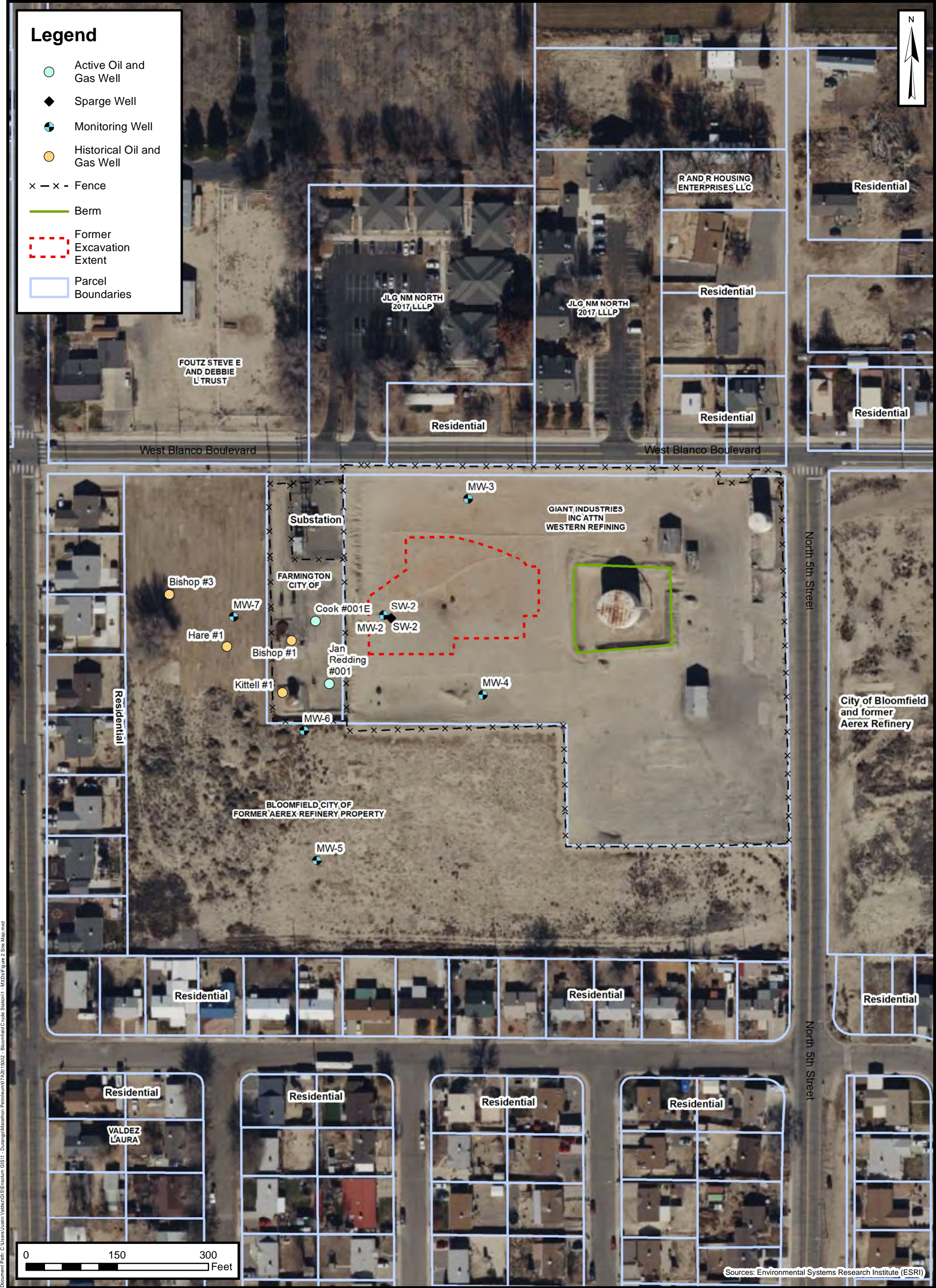


**ENSOLUM**  
Environmental & Hydrogeologic Consultants

**Site Location**  
Bloomfield Crude Station  
Western Refining Southwest LLC  
  
36.717936°, -107.985896°  
Bloomfield, New Mexico

**FIGURE**  
**1**

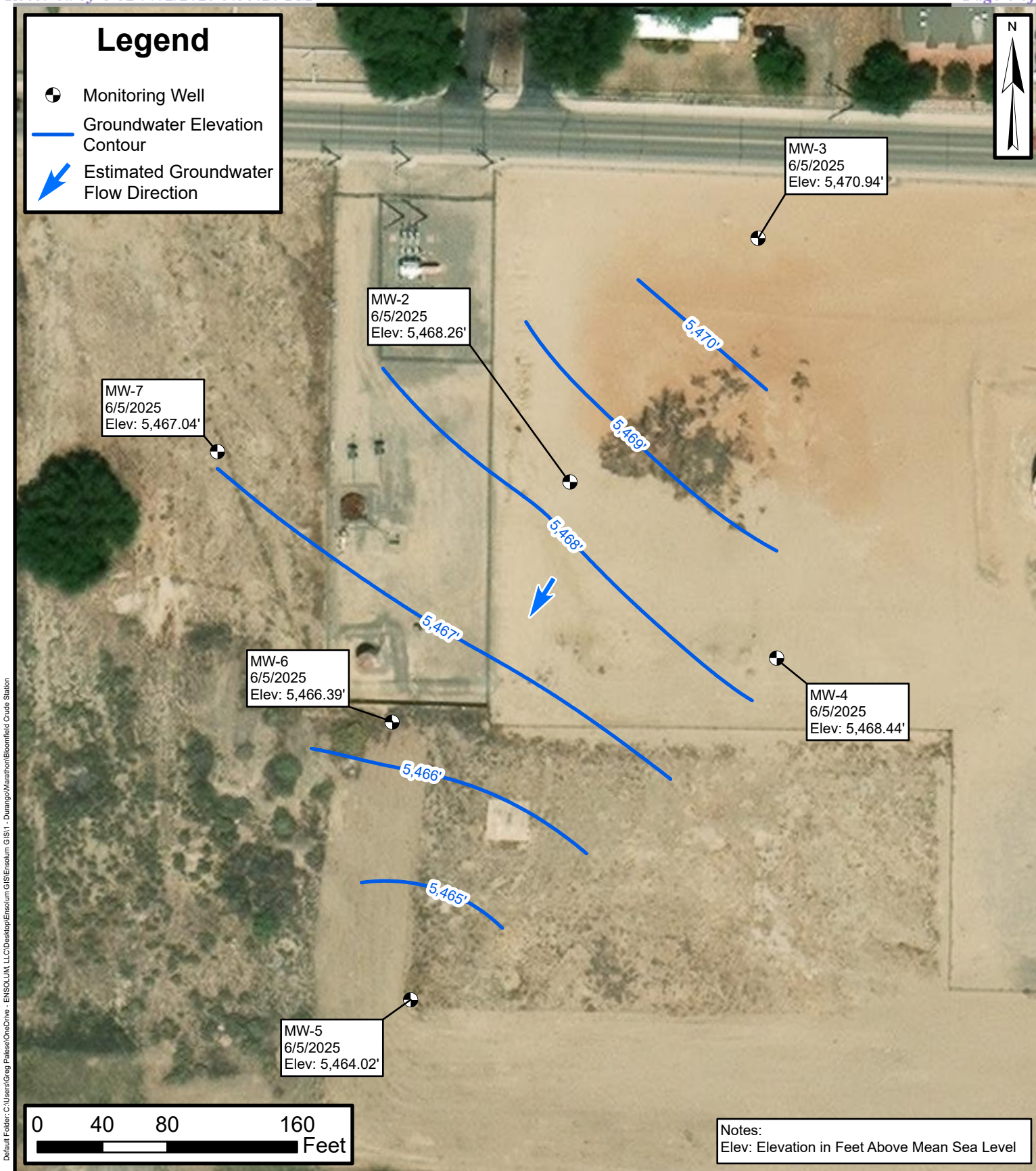




**Site Map**  
Bloomfield Crude Station  
Western Refining Southwest LLC  
36.717936°, -107.985896°  
Bloomfield, New Mexico

**FIGURE**  
**2**





## Groundwater Elevation Contours June 2025

Bloomfield Crude Station  
Western Refining Southwest LLC

36.717936, -107.985896  
Bloomfield, New Mexico

**FIGURE**  
**3**





## TABLES & GRAPHS

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<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-2	5485.33	5/2001	18.68	15.26	NP	NP	5,470.07
		7/2001	18.68	15.81	NP	NP	5,469.52
		5/2002	18.68	15.51	NP	NP	5,469.82
		1/2003	18.68	12.53	NP	NP	5,472.80
		1/2004	18.68	14.24	NP	NP	5,471.09
		1/2005	18.68	14.52	NP	NP	5,470.81
		1/2006	18.68	14.67	NP	NP	5,470.66
		1/2007	18.68	12.63	NP	NP	5,472.70
		1/2008	18.68	11.81	NP	NP	5,473.52
		1/2009	18.68	11.75	NP	NP	5,473.58
		1/2010	18.68	12.20	NP	NP	5,473.13
		1/2011	18.68	12.62	NP	NP	5,472.71
		1/2012	18.68	12.41	NP	NP	5,472.92
		11/2017	18.68	15.84	NP	NP	5,469.49
		1/2018	18.68	17.33	NP	NP	5,468.00
		3/19/2020	18.75	16.71	NP	NP	5,468.62
		4/9/2020	18.75	17.38	NP	NP	5,467.95
		5/20/2020	18.75	17.33	NP	NP	5,468.00
		7/14/2020	18.70	17.39	NP	NP	5,467.94
		9/2/2020	18.70	18.30	NP	NP	5,467.03
		10/28/2020	18.65	17.98	NP	NP	5,467.35
		11/10/2020	18.61	17.82	NP	NP	5,467.51
		12/22/2020	18.61	17.37	NP	NP	5,467.96
		1/5/2021	18.66	17.30	NP	NP	5,468.03
		2/4/2021	18.70	17.18	NP	NP	5,468.15
		4/29/2021	18.75	17.61	NP	NP	5,467.72
		9/6/2021	18.69	17.30	NP	NP	5,468.03
		10/18/2021	18.70	15.66	NP	NP	5,469.67
		1/21/2022	18.70	15.32	NP	NP	5,470.01
		6/14/2022	18.70	16.29	NP	NP	5,469.04
		9/7/2022	18.70	15.64	NP	NP	5,469.69
		12/15/2022	18.70	15.05	NP	NP	5,470.28
		3/6/2023	18.70	14.48	NP	NP	5,470.85
		4/20/2023	18.70	15.95	NP	NP	5,469.38
		6/15/2023	18.70	16.22	NP	NP	5,469.11
		7/12/2023	18.70	16.26	NP	NP	5,469.07
		8/16/2023	18.70	16.44	NP	NP	5,468.89
		9/7/2023	18.70	16.36	NP	NP	5,468.97
		10/17/2023	18.70	16.40	NP	NP	5,468.93
		1/18/2024	18.70	16.91	NP	NP	5,468.42
		2/12/2024	18.70	17.12	NP	NP	5,468.21
		3/27/2024	18.70	17.51	NP	NP	5,467.82
		4/8/2024	18.70	17.60	NP	NP	5,467.73
		5/28/2024	18.70	17.90	NP	NP	5,467.43
		6/24/2024	Well Buried, Could Not Locate				
		7/12/2024	Well Buried, Could Not Locate				
		8/23/2024	Well Buried, Could Not Locate				
		10/17/2024	Well Buried, Could Not Locate				
		11/20/2024	Well Buried, Could Not Locate				
		12/11/2024	Well Buried, Could Not Locate				
		1/23/2025	Well Buried, Could Not Locate				
		2/18/2025	Well Buried, Could Not Locate				
		3/14/2025	Well Buried, Could Not Locate				
		4/16/2025	Well Buried, Could Not Locate				
		5/12/2025	18.70	16.99	NP	NP	5,468.34
		6/5/2025	18.72	17.07	NP	NP	5,468.26
		7/23/2025	18.80	16.92	NP	NP	5,468.41





<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-3	5488.61	5/2001	18.69	15.60	NP	NP	5,473.01
		7/2001	18.69	15.94	NP	NP	5,472.67
		5/2002	18.69	15.13	NP	NP	5,473.48
		1/2003	18.69	12.89	NP	NP	5,475.72
		1/2004	18.69	14.62	NP	NP	5,473.99
		1/2005	18.69	15.98	NP	NP	5,472.63
		1/2006	18.69	14.07	NP	NP	5,474.54
		1/2007	18.69	13.92	NP	NP	5,474.69
		1/2008	18.69	12.08	NP	NP	5,476.53
		1/2009	18.69	12.17	NP	NP	5,476.44
		1/2010	18.69	12.79	NP	NP	5,475.82
		1/2011	18.69	13.05	NP	NP	5,475.56
		1/2012	18.69	13.25	NP	NP	5,475.36
		11/2017	18.69	17.49	NP	NP	5,471.12
		1/2018	18.69	18.03	NP	NP	5,470.58
		3/19/2020	18.69	17.22	NP	NP	5,471.39
		4/9/2020	18.69	16.99	NP	NP	5,471.62
		5/20/2020	18.69	17.73	NP	NP	5,470.88
		7/14/2020	18.64	18.14	NP	NP	5,470.47
		9/2/2020	18.65	17.07	NP	NP	5,471.54
		10/28/2020	18.69	16.59	NP	NP	5,472.02
		11/10/2020	18.68	16.50	NP	NP	5,472.11
		12/22/2020	18.75	16.27	NP	NP	5,472.34
		1/5/2021	18.61	16.31	NP	NP	5,472.30
		2/4/2021	18.69	16.42	NP	NP	5,472.19
		4/29/2021	18.76	17.25	NP	NP	5,471.36
		9/6/2021	18.69	16.37	NP	NP	5,472.24
		10/18/2021	18.69	17.07	NP	NP	5,471.54
		1/21/2022	18.69	15.99	NP	NP	5,472.62
		6/14/2022	18.69	16.98	NP	NP	5,471.63
		9/7/2022	18.69	16.58	NP	NP	5,472.03
		12/15/2022	18.69	15.51	NP	NP	5,473.10
		3/6/2023	18.69	15.85	NP	NP	5,472.76
		4/20/2023	18.69	16.28	NP	NP	5,472.33
		6/15/2023	18.69	16.73	NP	NP	5,471.88
		7/12/2023	18.69	16.75	NP	NP	5,471.86
		8/16/2023	18.69	17.18	NP	NP	5,471.43
		9/7/2023	18.69	17.21	NP	NP	5,471.40
		10/17/2023	18.69	17.23	NP	NP	5,471.38
		1/18/2024	18.69	17.40	NP	NP	5,471.21
		2/12/2024	18.69	17.53	NP	NP	5,471.08
		3/27/2024	18.69	17.84	NP	NP	5,470.77
		4/8/2024	18.73	17.88	NP	NP	5,470.73
		5/28/2024	18.73	18.24	NP	NP	5,470.37
		6/24/2024	18.73	18.35	NP	NP	5,470.26
		7/12/2024	18.73	18.36	NP	NP	5,470.25
		8/23/2024	18.73	18.25	NP	NP	5,470.36
		10/17/2024	18.73	17.74	NP	NP	5,470.87
		11/20/2024	18.73	17.81	NP	NP	5,470.80
		12/11/2024	18.75	17.14	NP	NP	5,471.47
		1/23/2025	18.75	17.17	NP	NP	5,471.44
		2/18/2025	18.75	16.94	NP	NP	5,471.67
		3/14/2025	18.75	16.89	NP	NP	5,471.72
		4/16/2025	18.74	17.34	NP	NP	5,471.27
		5/12/2025	18.75	17.51	NP	NP	5,471.10
		6/5/2025	18.74	17.67	NP	NP	5,470.94
		7/23/2025	18.78	17.89	NP	NP	5,470.72



<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-4	5486.18	5/2001	26.15	16.13	NP	NP	5,470.05
		7/2001	26.15	16.43	NP	NP	5,469.75
		5/2002	26.15	15.54	NP	NP	5,470.64
		1/2003	26.15	13.89	NP	NP	5,472.29
		1/2004	26.15	15.08	NP	NP	5,471.10
		1/2005	26.15	15.62	NP	NP	5,470.56
		1/2006	26.15	14.79	NP	NP	5,471.39
		1/2007	26.15	14.15	NP	NP	5,472.03
		1/2008	26.15	13.29	NP	NP	5,472.89
		1/2009	26.15	13.46	NP	NP	5,472.72
		1/2010	26.15	14.11	NP	NP	5,472.07
		1/2011	26.15	15.10	NP	NP	5,471.08
		1/2012	26.15	14.58	NP	NP	5,471.60
		11/2017	26.15	17.56	NP	NP	5,468.62
		1/2018	26.15	18.23	NP	NP	5,467.95
		3/19/2020	26.21	17.75	NP	NP	5,468.43
		4/9/2020	26.21	17.83	NP	NP	5,468.35
		5/20/2020	26.21	18.11	NP	NP	5,468.07
		7/14/2020	26.12	18.30	NP	NP	5,467.88
		9/2/2020	26.12	18.17	NP	NP	5,468.01
		10/28/2020	26.14	17.80	NP	NP	5,468.38
		11/10/2020	26.12	17.70	NP	NP	5,468.48
		12/22/2020	25.89	17.40	NP	NP	5,468.78
		1/5/2021	26.16	17.41	NP	NP	5,468.77
		2/4/2021	26.22	17.49	NP	NP	5,468.69
		4/29/2021	26.34	18.02	NP	NP	5,468.16
		9/6/2021	26.20	17.24	NP	NP	5,468.94
		10/18/2021	26.22	DRY	NP	NP	--
		1/21/2022	26.22	16.59	NP	NP	5,469.59
		6/14/2022	26.22	17.16	NP	NP	5,469.02
		9/7/2022	26.22	16.59	NP	NP	5,469.59
		12/15/2022	26.22	16.08	NP	NP	5,470.10
		3/6/2023	26.22	15.35	NP	NP	5,470.83
		4/20/2023	26.22	16.69	NP	NP	5,469.49
		6/15/2023	26.22	16.86	NP	NP	5,469.32
		7/12/2023	26.22	16.90	NP	NP	5,469.28
		8/16/2023	26.22	17.09	NP	NP	5,469.09
		9/7/2023	26.22	17.13	NP	NP	5,469.05
		10/17/2023	26.22	17.16	NP	NP	5,469.02
		1/18/2024	26.22	17.67	NP	NP	5,468.51
		2/12/2024	26.22	17.79	NP	NP	5,468.39
		3/27/2024	26.22	18.15	NP	NP	5,468.03
		4/8/2024	26.18	18.08	NP	NP	5,468.10
		5/28/2024	26.18	18.44	NP	NP	5,467.74
		6/24/2024	26.18	18.38	NP	NP	5,467.80
		7/12/2024	26.18	18.30	NP	NP	5,467.88
		8/23/2024	26.19	17.95	NP	NP	5,468.23
		10/17/2024	26.19	17.37	NP	NP	5,468.81
		11/20/2024	26.19	17.42	NP	NP	5,468.76
		12/11/2024	26.20	17.15	NP	NP	5,469.03
		1/23/2025	26.20	17.23	NP	NP	5,468.95
		2/18/2025	26.20	17.25	NP	NP	5,468.93
		3/14/2025	26.20	17.28	NP	NP	5,468.90
		4/16/2025	26.50	17.46	NP	NP	5,468.72
		5/12/2025	26.20	17.54	NP	NP	5,468.64
		6/5/2025	26.50	17.74	NP	NP	5,468.44
		7/23/2025	26.23	17.89	NP	NP	5,468.29





<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
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		7/2001	24.50	16.36	NP	NP	5,465.25
		5/2002	24.50	15.74	NP	NP	5,465.87
		1/2003	24.50	13.97	NP	NP	5,467.64
		1/2004	24.50	15.17	NP	NP	5,466.44
		1/2005	24.50	15.91	NP	NP	5,465.70
		1/2006	24.50	15.21	NP	NP	5,466.40
		1/2007	24.50	14.22	NP	NP	5,467.39
		1/2008	24.50	13.31	NP	NP	5,468.30
		1/2009	24.50	13.38	NP	NP	5,468.23
		1/2010	24.50	13.63	NP	NP	5,467.98
		1/2011	24.50	13.40	NP	NP	5,468.21
		1/2012	24.50	13.52	NP	NP	5,468.09
		11/2017	24.50	16.50	NP	NP	5,465.11
		1/2018	24.50	18.02	NP	NP	5,463.59
		3/19/2020	24.50	17.80	NP	NP	5,463.81
		4/9/2020	24.50	17.95	NP	NP	5,463.66
		5/20/2020	24.50	18.16	NP	NP	5,463.45
		7/14/2020	24.44	17.89	NP	NP	5,463.72
		9/2/2020	24.42	17.70	NP	NP	5,463.91
		10/28/2020	24.42	17.13	NP	NP	5,464.48
		11/10/2020	21.46	17.10	NP	NP	5,464.51
		12/22/2020	24.46	16.95	NP	NP	5,464.66
		1/5/2021	24.46	17.09	NP	NP	5,464.52
		2/4/2021	24.54	17.37	NP	NP	5,464.24
		4/29/2021	24.56	18.21	NP	NP	5,463.40
		9/6/2021	24.55	17.01	NP	NP	5,464.60
		10/18/2021	24.54	16.40	NP	NP	5,465.21
		1/21/2022	24.54	16.37	NP	NP	5,465.24
		6/14/2022	24.54	17.01	NP	NP	5,464.60
		9/7/2022	24.54	16.64	NP	NP	5,464.97
		12/15/2022	24.54	16.26	NP	NP	5,465.35
		3/6/2023	24.54	16.65	NP	NP	5,464.96
		4/20/2023	24.54	17.10	NP	NP	5,464.51
		6/15/2023	24.54	17.09	NP	NP	5,464.52
		7/12/2023	24.54	17.13	NP	NP	5,464.48
		8/16/2023	24.54	16.14	NP	NP	5,465.47
		9/7/2023	24.54	17.23	NP	NP	5,464.38
		10/17/2023	24.54	17.25	NP	NP	5,464.36
		1/18/2024	24.54	17.96	NP	NP	5,463.65
		2/12/2024	24.54	18.13	NP	NP	5,463.48
		3/27/2024	24.54	18.62	NP	NP	5,462.99
		4/8/2024	24.40	18.35	NP	NP	5,463.26
		5/28/2024	24.40	18.60	NP	NP	5,463.01
		6/24/2024	24.40	18.36	NP	NP	5,463.25
		7/12/2024	24.40	18.28	NP	NP	5,463.33
		8/23/2024	24.40	17.90	NP	NP	5,463.71
		10/17/2024	24.42	17.25	NP	NP	5,464.36
		11/20/2024	24.45	17.33	NP	NP	5,464.28
		12/11/2024	24.45	17.35	NP	NP	5,464.26
		1/23/2025	24.45	17.39	NP	NP	5,464.22
		2/18/2025	24.45	17.38	NP	NP	5,464.23
		3/14/2025	24.45	17.37	NP	NP	5,464.24
		4/16/2025	24.44	17.56	NP	NP	5,464.05
		5/12/2025	24.44	17.49	NP	NP	5,464.12
		6/5/2025	24.44	17.59	NP	NP	5,464.02
		7/23/2025	24.50	17.47	NP	NP	5,464.14



<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-6	5486.18	5/2001	29.37	18.18	NP	NP	5,468.00
		7/2001	29.37	18.30	NP	NP	5,467.88
		5/2002	29.37	18.05	NP	NP	5,468.13
		1/2003	29.37	15.58	NP	NP	5,470.60
		1/2004	29.37	16.98	NP	NP	5,469.20
		1/2005	29.37	17.67	NP	NP	5,468.51
		1/2006	29.37	16.88	NP	NP	5,469.30
		1/2007	29.37	15.92	NP	NP	5,470.26
		1/2008	29.37	15.03	NP	NP	5,471.15
		1/2009	29.37	14.89	NP	NP	5,471.29
		1/2010	29.37	15.21	NP	NP	5,470.97
		1/2011	29.37	14.96	NP	NP	5,471.22
		1/2012	29.37	14.22	NP	NP	5,471.96
		11/2017	29.37	18.85	NP	NP	5,467.33
		1/2018	29.37	19.93	NP	NP	5,466.25
		3/19/2020	29.33	19.55	NP	NP	5,466.63
		4/9/2020	29.33	19.78	NP	NP	5,466.40
		7/14/2020	29.35	20.02	NP	NP	5,466.16
		9/2/2020	29.34	19.87	NP	NP	5,466.31
		10/28/2020	29.34	19.40	NP	NP	5,466.78
		11/10/2020	29.35	19.31	NP	NP	5,466.87
		12/22/2020	29.41	19.06	NP	NP	5,467.12
		1/5/2021	29.35	19.15	NP	NP	5,467.03
		2/4/2021	19.34	19.29	NP	NP	5,466.89
		4/29/2021	29.45	20.12	NP	NP	5,466.06
		9/6/2021	29.55	19.11	NP	NP	5,467.07
		10/18/2021	19.34	18.80	NP	NP	5,467.38
		1/21/2022	19.34	18.40	NP	NP	5,467.78
		6/14/2022	19.34	19.05	NP	NP	5,467.13
		9/7/2022	19.34	18.72	NP	NP	5,467.46
		12/15/2022	19.34	18.19	NP	NP	5,467.99
		3/6/2023	19.34	18.48	NP	NP	5,467.70
		4/20/2023	19.34	18.95	NP	NP	5,467.23
		6/15/2023	19.34	19.06	NP	NP	5,467.12
		7/12/2023	19.34	19.11	NP	NP	5,467.07
		8/16/2023	19.34	19.17	NP	NP	5,467.01
		9/7/2023	19.34	18.20	NP	NP	5,467.98
		10/17/2023	19.34	19.24	NP	NP	5,466.94
		1/18/2024	19.34	19.71	NP	NP	5,466.47
		2/12/2024	19.34	19.90	NP	NP	5,466.28
		3/27/2024	19.34	20.43	NP	NP	5,465.75
		4/8/2024	29.36	20.23	NP	NP	5,465.95
		5/28/2024	29.36	20.62	NP	NP	5,465.56
		6/24/2024	29.36	20.55	NP	NP	5,465.63
		7/12/2024	29.36	20.44	NP	NP	5,465.74
		8/23/2024	25.10	19.96	NP	NP	5,466.22
		10/17/2024	25.10	19.69	NP	NP	5,466.49
		11/20/2024	25.10	19.71	NP	NP	5,466.47
		12/11/2024	25.10	19.35	NP	NP	5,466.83
		1/23/2025	25.71	19.39	NP	NP	5,466.79
		2/18/2025	25.71	19.32	NP	NP	5,466.86
		3/14/2025	25.71	19.30	NP	NP	5,466.88
		4/16/2025	29.36	19.57	NP	NP	5,466.61
		5/12/2025	29.36	19.60	NP	NP	5,466.58
		6/5/2025	29.36	19.79	NP	NP	5,466.39
		7/23/2025	29.41	19.65	NP	NP	5,466.53





<b>TABLE 1</b> <b>GROUNDWATER ELEVATION DATA</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-7	5491.86	5/2001	32.79	23.77	NP	NP	5,468.09
		7/2001	32.79	23.55	NP	NP	5,468.31
		6/2002	32.79	22.38	NP	NP	5,469.48
		1/2003	32.79	20.18	NP	NP	5,471.68
		1/2004	32.79	22.46	NP	NP	5,469.40
		1/2005	32.79	22.50	NP	NP	5,469.36
		1/2006	32.79	21.95	NP	NP	5,469.91
		1/2007	32.79	20.44	NP	NP	5,471.42
		1/2008	32.79	19.69	NP	NP	5,472.17
		1/2009	32.79	19.53	NP	NP	5,472.33
		1/2010	32.79	19.66	NP	NP	5,472.20
		1/2011	32.79	19.30	NP	NP	5,472.56
		1/2012	32.79	19.60	NP	NP	5,472.26
		11/2017	32.79	23.69	NP	NP	5,468.17
		1/2018	32.79	25.74	NP	NP	5,466.12
		9/20/2018	32.79	24.05	24.02	0.03	5,467.83
		12/12/2018	32.79	23.34	NP	NP	5,468.52
		5/15/2019	32.79	25.43	24.09	1.34	5,467.50
		7/31/2019	32.79	24.62	24.09	0.53	5,467.66
		11/13/2019	32.79	23.63	NP	NP	5,468.23
		12/11/2019	32.79	23.60	NP	NP	5,468.26
		12/18/2019	32.79	23.69	NP	NP	5,468.17
		12/24/2019	32.79	23.70	NP	NP	5,468.16
		1/2/2020	33.28	23.85	NP	NP	5,468.01
		1/15/2020	33.28	24.02	NP	NP	5,467.84
		1/22/2020	33.28	24.06	NP	NP	5,467.80
		1/29/2020	33.28	24.30	NP	NP	5,467.56
		2/5/2020	33.28	24.35	NP	NP	5,467.51
		2/12/2020	33.28	24.32	NP	NP	5,467.54
		2/19/2020	33.28	24.64	NP	NP	5,467.22
		2/26/2020	33.28	24.75	NP	NP	5,467.11
		3/4/2020	33.28	24.89	NP	NP	5,466.97
		3/11/2020	33.28	24.95	NP	NP	5,466.91
		3/18/2020	33.28	25.21	NP	NP	5,466.65
		3/19/2020	33.28	25.20	NP	NP	5,466.66
		4/9/2020	33.28	25.61	25.59	0.02	5,466.27
		5/20/2020	33.28	25.92	25.68	0.24	5,466.13
		7/14/2020	33.28	24.97	24.89	0.08	5,466.95
		9/2/2020	33.36	24.37	NP	NP	5,467.49
		10/28/2020	33.36	23.94	NP	NP	5,467.92
		11/10/2020	33.39	23.85	NP	NP	5,468.01
		12/22/2020	33.32	23.95	NP	NP	5,467.91
		1/5/2021	33.39	24.11	NP	NP	5,467.75
		2/4/2021	33.35	24.52	NP	NP	5,467.34
		4/29/2021	33.35	25.74	25.70	0.04	5,466.15
		9/6/2021	33.35	24.54	NP	NP	5,467.32
		10/18/2021	33.35	23.04	NP	NP	5,468.82
		1/21/2022	33.35	23.08	NP	NP	5,468.78
		6/14/2022	33.35	24.31	NP	NP	5,467.55
		9/7/2022	33.35	23.54	NP	NP	5,468.32
		12/15/2022	33.35	22.95	NP	NP	5,468.91
		3/6/2023	33.35	23.83	NP	NP	5,468.03
		4/20/2023	33.35	24.57	NP	NP	5,467.29
		6/15/2023	33.35	24.84	NP	NP	5,467.02
		7/12/2023	33.35	24.86	NP	NP	5,467.00
		8/16/2023	33.35	24.40	NP	NP	5,467.46
		9/7/2023	33.35	24.29	NP	NP	5,467.57
		10/17/2023	33.35	24.33	NP	NP	5,467.53
		1/18/2024	33.35	25.47	NP	NP	5,466.39
		2/12/2024	33.35	25.79	NP	NP	5,466.07
		3/27/2024	33.35	26.44	NP	NP	5,465.42
		4/8/2024	33.38	26.50	NP	NP	5,465.36
		5/28/2024	33.38	26.35	26.27	0.08	5,465.57
		5/28/2024	33.38	26.35	26.27	0.08	5,465.57
		6/24/2024	33.38	25.45	NP	NP	5,466.41
		7/12/2024	33.38	25.45	25.38	0.07	5,466.41
		8/23/2024	33.31	24.68	24.55	0.13	5,467.18



TABLE 1 GROUNDWATER ELEVATION DATA BLOOMFIELD CRUDE STATION Western Refining Southwest LLC Bloomfield, New Mexico							
Well Number	Wellhead Elevation (feet)	Date	Total Depth (feet)	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Product thickness (feet)	Potentiometric Elevation
MW-7	5491.86	10/17/2024	33.38	33.31	NP	NP	5,458.55
		11/20/2024	33.38	24.01	NP	NP	5,467.85
		12/11/2024	33.38	23.9	NP	NP	5,467.96
		1/23/2025	33.08	23.97	NP	NP	5,467.89
		2/18/2025	33.08	24.70	NP	NP	5,467.16
		3/14/2025	33.08	24.69	NP	NP	5,467.17
		4/16/2025	30.11	25.37	NP	NP	5,466.49
		5/12/2025	30.11	25.18	NP	NP	5,466.68
		6/5/2025	30.11	24.82	NP	NP	5,467.04
		7/23/2025	Well Buried, Could Not Locate				

**Notes:**

BTOC: below top of casing

\*GWEL: groundwater Surface Elevation adjusted for product depth using 0.8 g/mL unless noted otherwise

NP: no product





**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**BLOOMFIELD CRUDE STATION**  
**Western Refining Southwest LLC**  
**Bloomfield, New Mexico**

Well Number	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)
NMWQCC Standard		5	1,000	700	620
Bloomfield Crude Station Wells					
MW-2	Sep-94	640	600	82	690
	Apr-95	220	280	53	430
	Sep-99	NSP	NSP	NSP	NSP
	Dec-99	NSP	NSP	NSP	NSP
	May-01	NSP	NSP	NSP	NSP
	May-02	NSP	NSP	NSP	NSP
	Jan-03	1,700	ND	650	3,200
	Jan-04	1,100	ND	340	1,800
	Jan-05	430	ND	360	1,000
	Jan-06	250	ND	410	790
	Sep-06	230	50	290	640
	Jan-07	8.7	9.7	16	55
	Apr-07	7.8	6.0	61	110
	Jul-07	4.2	20	30	68
	Oct-07	0.9	18	120	180
	Jan-08	4.4	45	24	100
	May-08	0.9	12	<0.5	17
	Aug-08	1.1	7.3	14	28
	Nov-08	1.7	2.0	7.3	15
	Jan-09	1.6	ND	2.1	6.9
	Feb-09	<1.0	<1.0	2.3	7.7
	May-09	1.1	2.1	1.0	6.8
	Aug-09	1.2	<1.0	<1.0	2.0
	Nov-09	<1.0	<1.0	<1.0	<2.0
	Jan-10	<1.0	<1.0	<1.0	<2.0
	Feb-10	<1.0	<1.0	<1.0	<2.0
	Jan-11	<1.0	<1.0	<1.0	2.5
	Jan-12	<1.0	<1.0	<1.0	<2.0
	Mar-13	<1.0	<1.0	<2.0	<2.0
	Nov-17	0.074 J	<0.064	<0.093	<0.32
	May-18	<1.0	<1.0	<1.0	<1.5
MW-3	Sep-94	ND	ND	ND	ND
	Apr-95	ND	ND	ND	ND
	Sep-99	ND	ND	ND	ND
	Dec-99	ND	ND	ND	ND
	May-01	ND	ND	ND	ND
	May-02	ND	ND	ND	ND
	Jan-03	ND	ND	ND	ND
	Jan-04	ND	ND	ND	ND
	Jan-05	ND	ND	ND	ND
	Jan-06	ND	ND	ND	ND
	Jan-07	0.8	ND	ND	ND
	Jan-08	ND	ND	ND	ND
	Jan-09	ND	ND	ND	ND
	Jan-10	<1.0	<1.0	<1.0	<2.0
	Jan-11	<1.0	<1.0	<1.0	<2.0
	Jan-12	<1.0	<1.0	<1.0	<2.0
	Mar-13	<1.0	<1.0	<2.0	<2.0
	Nov-17	<0.062	<0.064	<0.093	<0.32
	May-18	<1.0	<1.0	<1.0	<1.5



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**BLOOMFIELD CRUDE STATION**  
**Western Refining Southwest LLC**  
**Bloomfield, New Mexico**

Well Number	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)
MW-4	Sep-94	2.1	ND	ND	1.2
	Apr-95	ND	ND	ND	ND
	Sep-99	ND	ND	ND	ND
	Dec-99	ND	ND	ND	ND
	May-01	ND	ND	ND	ND
	May-02	ND	ND	ND	ND
	Jan-03	ND	ND	ND	ND
	Jan-04	ND	ND	ND	ND
	Jan-05	ND	ND	ND	ND
	Jan-06	ND	ND	ND	ND
	Jan-07	ND	ND	ND	ND
	Jan-08	ND	ND	ND	ND
	Jan-09	ND	ND	ND	ND
	Jan-10	<1.0	<1.0	<1.0	<2.0
	Jan-11	<1.0	<1.0	<1.0	<2.0
	Jan-12	<1.0	<1.0	<1.0	<2.0
MW-5	Apr-95	ND	ND	ND	ND
	Sep-99	ND	ND	ND	ND
	Dec-99	ND	ND	ND	ND
	May-01	ND	ND	ND	ND
	May-02	ND	ND	ND	ND
	Jan-03	ND	ND	ND	ND
	Jan-04	ND	ND	ND	1.1
	Jan-05	ND	ND	ND	ND
	Jan-06	ND	ND	ND	ND
	Jan-07	ND	ND	ND	ND
	Jan-08	ND	ND	ND	ND
	Jan-09	ND	ND	ND	ND
	Jan-10	<1.0	<1.0	<1.0	<2.0
	Jan-11	<1.0	<1.0	<1.0	<2.0
	Jan-12	<1.0	<1.0	<1.0	<2.0
	Mar-13	<1.0	<1.0	<1.0	<2.0
MW-6	Nov-17	<0.062	<0.064	<0.093	<0.32
	May-18	<1.0	<1.0	<1.0	<1.5
	Jul-21 (1)	<0.5	<0.5	<0.5	<1
	May-01	12	15.0	13	83
	May-02	ND	ND	0.53	1.4
	Oct-02	ND	ND	ND	3.2
	Jan-03	6	20.0	87	350
	Jul-03	ND	2.7	3.2	16
	Sep-03	0.8	3.7	4	24
	Jan-04	0.9	0.6	2.9	16
	Jan-05	ND	ND	ND	ND
	Jan-06	ND	ND	14	32
	Jan-07	ND	ND	3.6	9.1
	Jan-08	0.9	11.0	130	930
	Jan-09	ND	ND	66	510
	Jan-10	<5.0	<5.0	<5.0	<10
	Jan-11	<10.0	<10.0	140	960
	Jan-12	<10.0	<10.0	61	220
	Mar-13	<2.0	<2.0	<2.0	<4.0
	Nov-17	<0.062	<0.064	<0.093	<0.32
	May-18	<1.0	<1.0	<1.0	<1.5
	Jul-21 (1)	<0.5	<0.5	<0.5	<1





<b>TABLE 2</b> <b>GROUNDWATER ANALYTICAL RESULTS</b> <b>BLOOMFIELD CRUDE STATION</b> <b>Western Refining Southwest LLC</b> <b>Bloomfield, New Mexico</b>					
Well Number	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)
<b>MW-7</b>	May-01	<b>2,400</b>	ND	380	<b>2,800</b>
	Jun-02	<b>2,000</b>	ND	140	<b>1,100</b>
	Oct-02	<b>1,100</b>	ND	79	490
	Jan-03	<b>3,200</b>	ND	400	<b>3,100</b>
	Jan-04	<b>3,300</b>	ND	460	<b>3,300</b>
	Jan-05	<b>1,600</b>	ND	220	<b>1,500</b>
	Jan-06	<b>1,400</b>	ND	280	<b>1,500</b>
	Jan-07	<b>1,200</b>	ND	450	<b>2,500</b>
	Jan-08	<b>750</b>	ND	520	<b>3,100</b>
	Jan-09	<b>570</b>	ND	450	<b>2,800</b>
	Jan-10	<b>270</b>	<20	460	<b>2,500</b>
	Jan-11	<b>140</b>	<20	470	<b>2,400</b>
	Jan-12	<b>62</b>	<20	640	<b>3,500</b>
	Mar-13	<b>44</b>	<20	210	<b>920</b>
	Nov-17	0.64 J	<5.0	75	330
	May-18	<b>NSP</b>	<b>NSP</b>	<b>NSP</b>	<b>NSP</b>
	May-19	<b>NSP</b>	<b>NSP</b>	<b>NSP</b>	<b>NSP</b>
	Feb-20	<5.0	<5.0	14	24
	Mar-20	<1.0	<1.0	2.5	6.6
	Jul-21 (1)	<2.5	<2.5	<2.5	<5
EA Engineering Collected Grab-Groundwater Samples, Former Aerex Refinery Property					
<b>WSB01</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB03</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB04</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB05</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB06</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB07</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1
<b>WSB08</b>	Jul-21 (1)	<0.5	<0.5	<0.5	<1

**Notes:**

(1): sample collected by EA Engineering in July 2021

µg/L: micrograms per liter

D: sample diluted due to matrix

NE: not established

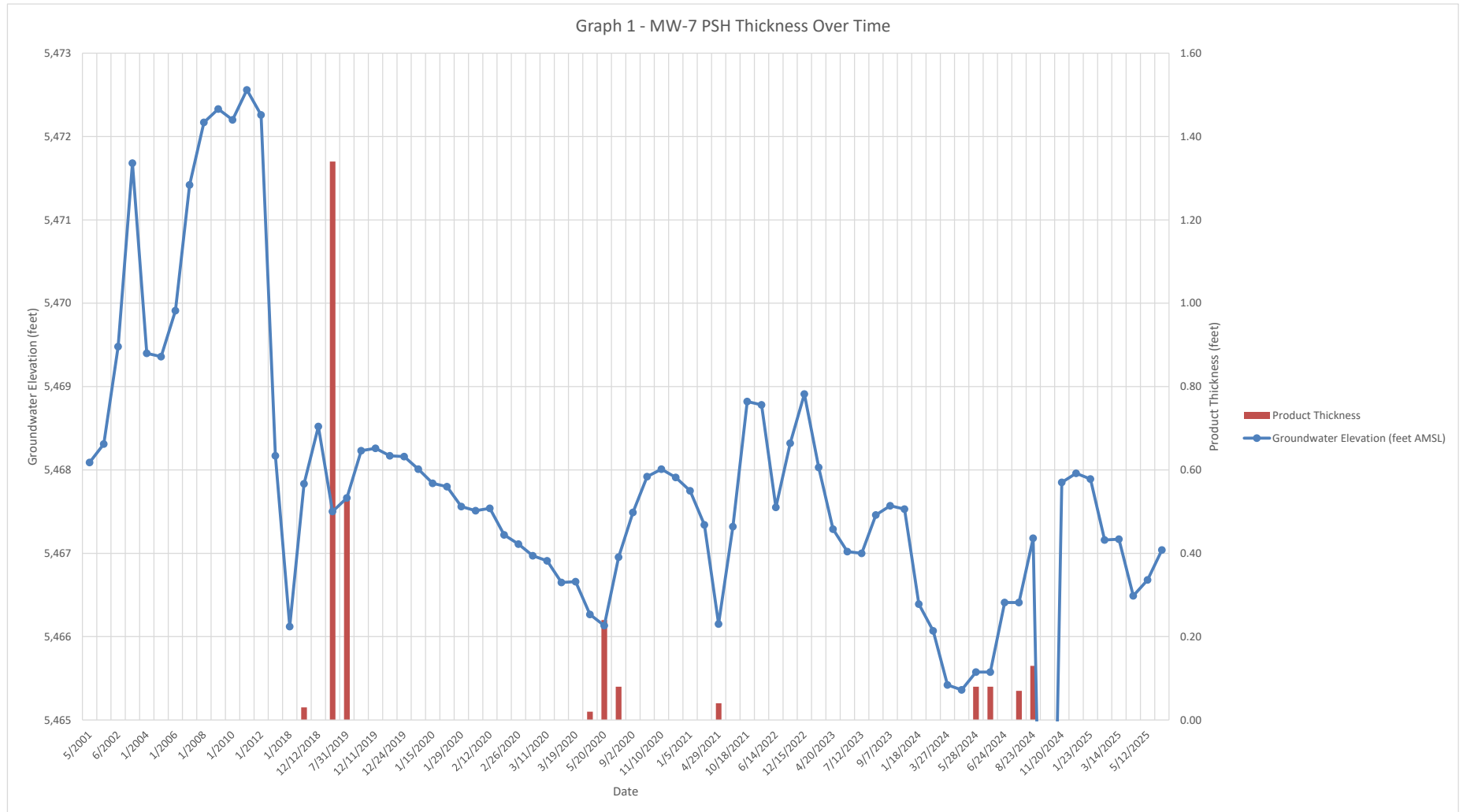
ND: not detected

NMWQCC: New Mexico Water Quality Control Commission

NS: not sampled

&lt;: indicates result is less than the stated laboratory method detection limit

**NSP**: not sampled due to product in well**Bold** indicates value exceeds NMWQCC standard



Sante Fe Main Office  
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Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 502078

CONDITIONS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 502078
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	9/22/2025