



Western Refining Southwest LLC

A subsidiary of Marathon Petroleum Corporation

I-40 Exit 39
Jamestown, NM 87347

March 31, 2023

Mr. Dave Cobrain, Interim Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, NM 87505-6303

**RE: 2022 Annual Groundwater Monitoring Report
Western Refining Southwest LLC, D/B/A Marathon Gallup Refinery
EPA ID# NMD000333211**

Dear Mr. Cobrain,

Please find enclosed the 2022 Annual Groundwater Monitoring Report for Western Refining Southwest LLC, D/B/A Marathon Gallup Refinery. If you have any questions or comments regarding the information contained herein, please do not hesitate to contact John Moore at (505) 879-7643 or Ms. Kateri Luka at (714) 713-1218.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Western Refining Southwest LLC, D/B/A Marathon Gallup Refinery

Timothy J. Peterkoski
Director of Environment and Climate Strategy Marathon Petroleum Company LP

Enclosure

cc:

L. Andress, NMED HWB
S. Wells, OCD
L. King, EPA Region 6

J. Moore, Gallup Refinery
K. Luka, Marathon Petroleum Company
H. Jones, Trihydro Corporation



Western Refining Southwest LLC
D/B/A Marathon Gallup Refinery
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**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
2022 ANNUAL GROUNDWATER MONITORING
REPORT**

MARCH 31, 2023



Western Refining Southwest LLC
D/B/A Marathon Gallup Refinery
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Executive Summary

Facility-wide groundwater monitoring activities were completed at the Western Refining Southwest LLC, D/B/A Marathon Gallup Refinery (Refinery), during 2022. Activities included fluid level gauging, analytical sampling, and separate phase hydrocarbon recovery (SPH). Groundwater monitoring at the Refinery was conducted in accordance with the Resource Conservation and Recovery Act Post-Closure Permit (NMED 2017), the “2022 Groundwater Monitoring Work Plan Analyte List” (2022 Analyte List) (Western LLC 2022a), and the “2022 Facility Wide Groundwater Monitoring Work Plan” (2022 Work Plan) (Western LLC 2022b). The 2022 Analyte List was approved via email on February 25, 2022 (Suzuki, M. 2022). The 2022 Work Plan was approved with modification by New Mexico Environment Department (NMED) on April 25, 2022.

The groundwater monitoring network at the Refinery consisted of 131 locations, which includes monitoring wells, water-production wells, surface sample locations, and leak detection units. These locations were sampled quarterly, semiannually, and annually as specified in the 2022 Work Plan. Fluid levels were measured monthly, quarterly, semiannually, and annually. Depth to water and SPH measurements were collected during 2022. The potentiometric surface maps were consistent with historical monitoring. Recovery activities were conducted in 2022 and were summarized in the Hydrocarbon Interim Measures Seep Reports submitted quarterly to NMED.

The groundwater monitoring analytical results were compared to the New Mexico Administrative Code Water Quality Commission 20.6.2.3103 Levels, Environmental Protection Agency (EPA) Maximum Contaminant Levels, NMED Tap Water Screening Levels, and EPA Tap Water Screening Levels. Analytical results were consistent with historical results.

Gauging and sampling requirements will continue in 2023 in accordance with the most current NMED-approved Facility Wide Groundwater Monitoring Work Plan. The 2023 Annual Groundwater Monitoring Report will be submitted no later than March 31, 2024. Hydrocarbon recovery activities will continue to take place and will be summarized in the Hydrocarbon Interim Measures Seep Reports, submitted quarterly to NMED. Site assessments will take place as required and NMED will be notified of remediation activities.



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List of Acronyms

%	percent
amsl	above mean sea level
EP	Evaporation Pond
EPA	Environmental Protection Agency
ft	foot/feet
ft/d	feet per day
I-40	Interstate 40
MCL	Maximum Contaminant Levels
MKTF	Marketing Tank Farm
NM	New Mexico
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
PFAS	Per- and Polyfluoroalkyl Substances
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RPD	relative percent difference
SPH	separate phase hydrocarbon
SVOC	semi-volatile organic compound
VOC	volatile organic compound
WQCC	Water Quality Control Commission



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1.0 Introduction

This 2022 Annual Groundwater Monitoring Report (Report) documents the groundwater gauging and sampling events for 2022, as it pertains to the Western Refining Southwest LLC, D/B/A Marathon Gallup Refinery (Refinery). This Report is submitted pursuant to the Refinery's Resource Conservation and Recovery Act (RCRA) Post-Closure Permit (NM000333211) (NMED 2017) and contains the information the Refinery is required to report annually.

The Refinery is located at Exit 39 on Interstate 40 (I-40), approximately 17 miles east of Gallup, New Mexico (NM), in Jamestown, NM (Figure 1-1). Gauging and sampling activities were conducted in accordance with the "2022 Groundwater Monitoring Work Plan Analyte List" (2022 Analyte List) (Western LLC 2022a), which was approved by the New Mexico Environment Department (NMED) on February 25, 2022 (Suzuki, M. 2022) for use in first quarter and the "2022 Facility Wide Groundwater Monitoring Work Plan" (2022 Work Plan) (Western LLC 2022b), which was approved with modification by NMED on April 25, 2022 (NMED 2022a). Although the 2022 Groundwater Monitoring Work Plan was not approved until April 25, 2022 (NMED 2022a), the Refinery used the 2022 Analyte List for first quarter 2022 sampling (Western LLC 2022a). A second approval with modifications for the 2022 Work Plan was received on February 1, 2023, and a response will be submitted no later than April 1, 2023.

1.1 Refinery Information

Built in the 1950s, the Refinery is located within a rural and sparsely populated area east of Gallup, NM. The nearest population centers are the Pilot Flying J Travel Center refueling plaza, the I-40 corridor, and a small cluster of residential homes located on the south side of I-40 approximately 2 miles southwest of the Refinery (Jamestown).

The Refinery has been idled since October 9, 2020. During operation, the Refinery was a crude oil refining and petroleum products manufacturing facility. There were no organic chemicals, plastics, or synthetic fibers manufactured that contributed to the process flow of wastewater. As a result of the processing steps, the Refinery produced a wide range of petroleum products including propane, butane, unleaded gasoline, diesel, residual fuel, and commercial products of fertilizer and solid elemental sulfur. The Refinery did not manufacture lubricating oils.

Historically, the Refinery primarily received crude oil via two 6-inch diameter pipelines, which entered the Refinery property from the north (Four Corners Area). In addition, the Refinery also received natural gasoline feedstock via a 4-inch diameter pipeline that came in from the west along the I-40 corridor from the Western Refining Southwest LLC – Wingate Plant, which is also idled. Crude oil and other products also arrived at the Refinery via railroad cars. These feed stocks were then stored in tanks until refined into products.



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1.2 Report Presentation

This Report presents the 2022 monitoring program as follows:

- Site Conditions – Site topography, surface water, and hydrogeology conditions are presented in Section 2.0.
- Monitoring Program – The groundwater and surface water program network are provided. In addition, regulatory criteria selection and 2022 Work Plan deviations are described. This information is presented in Section 3.0.
- Fluid Level Gauging – Fluid levels are measured at the Refinery on a monthly, quarterly, semiannual, and annual basis. Results for groundwater fluid levels were generally similar to those measured in prior years. These data are detailed in Section 4.0.
- Analytical Groundwater Data – Groundwater samples are collected quarterly and annually. Results for groundwater samples are compared to the appropriate NMED and the Environmental Protection Agency (EPA) cleanup levels. The analytical results are discussed in Section 5.0.
- Analytical Evaporation Pond Data – Evaporation Pond (EP) samples are collected semiannually as surface water samples. Results for the surface water samples are compared to the appropriate NMED and EPA cleanup levels. The analytical results are discussed in Section 5.0.
- Analytical Outfall Data – STP-1 to EP-2 was sampled during 2022 and is monitored quarterly. Results for the outfall samples are compared to the appropriate NMED and EPA cleanup levels. The analytical results are discussed in Section 5.0.
- Remediation Activities – Ongoing hydrocarbon recovery activities take place at the Refinery. Activities completed in 2022 are described in Section 6.0.



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2.0 Site Conditions

The Refinery is located within a rural and sparsely populated section of McKinley County, NM. It is situated in the high desert plain on the western flank of the Continental Divide approximately 17 miles east of Gallup, NM (Figure 1-1). The surrounding land is comprised of a mixture of public and private lands used for cattle and sheep grazing.

2.1 Site Topography

Local topography consists of a gradually inclined down-slope from high ground in the southeast to a lowland fluvial plain in the northwest. The highest point on Refinery property is located at the southeast corner boundary (elevation approximately 7,040 feet [ft] above mean sea level [amsl]) and the lowest point is located at the northwest corner boundary (elevation approximately 6,860 ft amsl). Surface soils within most of the area of investigation are primarily Rehobeth silty clay loam. The Refinery is located on a flat man-made terrace.

2.2 Surface Water

Surface water in the Refinery consists of the man-made EPs and aeration basins (Figure 2-1). There are several storm water conveyance ditches located throughout the Refinery. These ditches are discharged into contained basins where storm water is collected and allowed to evaporate or discharged through two National Pollutant Discharge Elimination System (NPDES) outfalls (NPDES Permit #NMR053168).

The hydrocarbon seep area is routinely monitored to evaluate the discharge of hydrocarbons to the land surface where shallow water discharges have been observed within the retention ditch and to the south near the original seep location. The borrow pit seep area is routinely inspected for indications of separate phase hydrocarbon (SPH) and it was dry throughout 2022. The hydrocarbon seep area and borrow pit seep area are shown on Figure 2-1 and more information can be found in the quarterly Hydrocarbon Interim Measures Seep Reports.

2.3 Geology

Site boring logs indicate that subsurface fluvial and alluvial soils are primarily comprised of clays and silts with discontinuous inter-bedded sand layers. Very low permeability bedrock (e.g., claystones and siltstones) underlie the surface soils. The Chinle Group, from the Upper Triassic period, crops out over a large area south of the Refinery. The uppermost subunit within the Chinle Group is the Petrified Forest Formation, which is also sometimes referred to as the Petrified Forest Member. Inter-bedded within the Chinle Group is the Sonsela Sandstone bed, which lies within and parallels the dip of the Chinle Group. Its high point is located southeast of the Refinery and slopes downward to the northwest as it passes under the Refinery. Due to the hydraulic confinement of the Petrified Forest Formation aquitard, the Sonsela Sandstone bed acts as a water-bearing reservoir and is artesian at its lower extremis. Artesian conditions exist through much of the central and western portions of the Refinery.



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2.4 Hydrogeology

Groundwater flow within the shallow alluvium and the upper Chinle Formation is highly variable due to the presence of complex and irregular stratigraphy including sand stringers, cobble beds, and dense clay layers. Hydraulic conductivity ranges from 30 ft per day (ft/d) for gravelly sands immediately overlying the Petrified Forest Formation to 3×10^{-5} ft/d in the clay soils located near the surface. Groundwater flow within the Lower Chinle Formation is extremely slow and typically averages less than 2.83×10^{-7} ft/d (i.e., less than 0.01 ft per year).

Water level data are collected routinely at the Refinery. Wells at the Refinery have been categorized based on the hydrogeologic unit in which they are screened, including the alluvial/fluvial upper sand aquifer, the Chinle/alluvium aquifer, and the Sonsela Sandstone aquifer. The alluvial/fluvial upper sand aquifer has a limited areal extent, existing only on the western margin on the Refinery. Groundwater occurrence in this aquifer is sporadic and limited.

The majority of the wells monitored lie within the shallow weathered sediments that comprise the Chinle/alluvium aquifer. Within the Chinle/alluvium aquifer, shallow groundwater located under the Refinery property generally flows along the upper contact of the Chinle Formation. The prevailing flow is from the southeast to the northwest, although localized areas may have varying flow directions based on the subsurface geology.

Groundwater within the Sonsela flows southeast to northwest. Hydraulic heads measured within the Sonsela are generally lower than those observed within the shallow aquifer near the topographic high on which the Refinery process area and tank farm are situated, and higher than those observed within the shallow aquifer in topographically low areas to the west and northwest, near the EPs. The higher head in the Sonsela in low areas is due to confining pressure from lower permeability Chinle Formation bedrock between the shallow Chinle/alluvium aquifer and the Sonsela Sandstone bed at depth, which makes the Sonsela Sandstone aquifer locally artesian.



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3.0 Monitoring Program

The monitoring program at the Refinery is conducted pursuant to the RCRA Post-Closure Permit (NMED 2017), the 2022 Analyte List (Western LLC 2022a), and the 2022 Work Plan (Western LLC 2022b). The monitoring program was completed to provide a comprehensive understanding of the dissolved phase impacts under the Refinery.

The monitoring network at the Refinery consists of 131 locations. There are 113 monitoring wells: 95 monitoring wells in the Chinle/Alluvium aquifer, 13 monitoring wells in the Sonsela aquifer, and 5 monitoring wells in the Alluvial/Fluvial upper sand aquifer. In addition to the monitoring wells, there are also three water-production wells at the Refinery: PW-2, PW-3, and PW-4. There are 11 surface water samples collected at the EPs (EP-2 through EP-12). Three Leak Detection Units are monitored associated with the New American Petroleum Institute Separator. There is also one surface monitoring location near the EPs, identified as STP-1 to EP-2.

The monitoring program network is sampled quarterly, semiannually, and annually. The frequency of the monitoring program is listed in Table 3-1. Field logs are provided in Appendix A, and historical fluid level information is presented in Appendix B. Laboratory reports and data validation reports are provided in Appendices C and D, respectively.

3.1 Groundwater Monitoring Network and Surface Sample Locations

The monitoring well program is broken into nine groups. The groups were selected based on areas of the Refinery and are organized from upstream to downstream. The nine groups are presented below and shown on Figure 3-1:

- | | |
|----------------------------------|---------------------------|
| 1. Eastern Boundary | 6. EPs |
| 2. Tank Farm | 7. Western Boundary |
| 3. Marketing Tank Farm (MKTF) | 8. Deep Monitoring Wells |
| 4. Solid Waste Management Unit 1 | 9. Water-Production Wells |
| 5. Land Treatment Unit | |

3.2 Regulatory Criteria

Groundwater analytical monitoring results are compared to the following cleanup levels:

- Water Quality Control Commission (WQCC) New Mexico Administrative Code (NMAC) 20.6.2.3103



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- EPA Drinking Water Maximum Contaminant Levels (MCL) (EPA 2022a)
- NMED Tap Water Screening Levels (NMED 2022b)
- EPA Tap Water Screening Levels, Hazard Quotient of 1.0 (EPA 2022b)
- NMED Total Petroleum Hydrocarbon Levels (NMED 2022b)

Per the RCRA Post-Closure Permit (NMED 2017) Section IV.D.1,

“the cleanup levels for all contaminants in groundwater shall be the WQCC groundwater quality standards, 20.6.2.3103 NMAC, the cleanup levels for toxic pollutants calculated in accordance with 20.6.2.7.WW NMAC, and the drinking water MCLs adopted by EPA under the federal Safe Drinking Water Act (42 U.S.C. §§ 300f to 300j-26) or the New Mexico Environmental Improvement Board, 20.7.10 NMAC. If both a WQCC water quality standard and an MCL have been established for an individual substance, then the lower of the levels shall be the cleanup level for that substance.

The most recent version of NMED’s Tap Water Screening Levels listed in Table A-1 of Technical Background Document for Development of Soil Screening Levels (as updated) shall be used to establish the cleanup level if either a WQCC standard or an MCL has not been established for a specific substance. In the absence of an NMED tap water screening level then the EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites for tap water shall be used.”

Cleanup levels were evaluated as required by the RCRA Post-Closure Permit (NMED 2017). Table 3-2 presents the appropriate cleanup levels for analytical result comparison. Analytical results are discussed in Section 5.0 and the appropriate cleanup levels are noted in the Section 5.0 tables.

3.3 Deviations from 2022 Work Plan

During 2022, field activities were conducted in accordance with the 2022 Work Plan (Western LLC 2022b) with the following exceptions:

- Monitoring wells were not sampled if SPH was detected, or a sheen identified during the monitoring period: 32 wells in first quarter, 41 wells in second quarter, 45 wells in third quarter, and 45 wells in fourth quarter. Monitoring wells with SPH are noted in Table 3-1 and Appendix B-1.
- Monitoring wells or EPs without sufficient water (6 in first quarter, 15 in second quarter, 11 in third quarter, and 15 in fourth quarter) or that were not accessible (2 EPs in fourth quarter) were not sampled during the monitoring period. Monitoring wells or EPs meeting these criteria are noted in Table 3-1 and Appendix B-1.
- Some reporting limits were greater than their respective cleanup levels and are noted in Tables 5-1 through 5-6 with italics.



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- Some monitoring wells had additional field parameters that were taken prior to parameter stabilization. Field parameter measurements taken for the purpose of stabilization are provided on the field forms in Appendix A.
- Some analytical data were rejected based on data validation of the results. These data are discussed in Section 5.3.1 and provided in Appendix D.
- As discussed in the 2022 Work Plan (Western LLC 2022b), OW-12 was supposed to switch from annual to semiannual sampling in 2022. However, OW-12 was only sampled annually during this reporting period, in fourth quarter 2022. The Refinery will sample OW-12 semiannually during the 2023 reporting period.
- As discussed in the Approval with Modifications Letter for the 2022 Facility-Wide Groundwater Monitoring Work Plan (2022 Work Plan Approval with Mods) (NMED 2022c), OW-67 and OW-68 are to be sampled quarterly to evaluate potential defects or contamination associated with drilling and installation of the well. As the Response to Approval letter was not received until April 25, 2022, quarterly sampling started in second quarter 2022.
- As stated in the 2022 Work Plan (Western LLC 2022b) pesticide analysis was to be conducted on EP-2. However, no pesticide data were collected in 2022 due to a sampling error. A sample will be collected from EP-2 and analyzed for pesticides during Spring 2023, in addition to the annual sampling event in September 2023. Results will be discussed in the 2023 Annual Groundwater Monitoring Report, due to NMED by March 31, 2024.
- Per the 2022 Work Plan (Western LLC 2022b), pentafluorobenzene was to be analyzed. However, pentafluorobenzene was not analyzed because it is an internal standard for EPA Method 8260 that is added to all samples. Therefore, results for pentafluorobenzene could be from laboratory contamination and may not be representative of the site conditions.
- MKTF-16 was not analyzed for the full constituent list in first, second, or fourth quarter due to slow recharge in the well. Not enough water was in the well at the time of sampling to fill sample bottles.

The NMED requests for sample collection and reporting modifications were implemented, where possible, as detailed below.

- Response to Disapproval, Annual Groundwater Monitoring Report Gallup Refinery – 2019 (Western LLC 2021a):
 - 1,4-Dioxane was analyzed in wells LDU-West, OW-50, OW-52, and SMW-4 samples per Comments 7 and 13.



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- Pesticide analyses were removed from samples EP-3, EP-12A and EP-12B starting in 2021 per Comment 26.
- Per- and Polyfluoroalkyl Substances (PFAS) were analyzed at well OW-63 per Comment 30.



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4.0 Fluid Level Results

Fluid levels are measured monthly, quarterly, semiannually, and annually depending on the monitoring well. Fluid level data and SPH measurements collected during 2022 are summarized in Table 4-1. Table 4-1 also provides the five most recent fluid level monitoring events for each location in the groundwater monitoring network. The following sub-sections discuss the potentiometric surface maps and SPH detections and thicknesses. Historical fluid level measurements and hydrographs are included as Appendix B-1 and Appendix B-2, respectively.

4.1 Potentiometric Surface

Potentiometric surface maps were prepared using the third quarter (annual) monitoring event data. Figures 4-1 through 4-3 illustrate the potentiometric surfaces at the Refinery based on fluid levels measured in each of the three aquifers. Prevailing groundwater flow in the Refinery is from the southeast towards the northwest. However, in the tank farm, the flow is generally in a northeastern direction and in the southern marketing tank farm area the flow is generally in a western direction.

The Alluvial/Fluvial upper sand aquifer is monitored with five groundwater monitoring wells (BW-1A, BW-2A, BW-3A, BW-4A, and BW-5A) (Figure 4-1). Monitoring wells BW-1A, BW-3A, BW-4A, and BW-5A are consistently dry throughout the sampling events. BW-2A was the only well in the Alluvial/Fluvial upper sand aquifer that had enough water in 2022 to calculate a fluid level elevation; therefore, a potentiometric surface for this area of the Refinery cannot be accurately depicted.

The Chinle/Alluvium aquifer includes monitoring wells across the Refinery (Figure 4-2). A total of 95 monitoring wells were gauged during the third quarter of 2022. Groundwater elevations have remained generally consistent with previous events.

The Sonsela aquifer includes monitoring wells outside of the Refinery process area and tank farm (Figure 4-3). OW-01 and OW-10 are artesian, so these wells will commonly have negative depth-to-water values from the water being pushed up into the well casing. These monitoring wells are excluded from the potentiometric surface calculations. Groundwater elevation data in OW-12A appeared anomalous and also excluded from the potentiometric surface calculations. Groundwater elevations have remained generally consistent with previous monitoring events.

4.2 SPH Detections

SPH measurements were monitored as part of fluid level monitoring. In addition, SPH occurrences were evaluated in the "Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation Report" (Western LLC 2022c), "Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation Report Addendum" (Western LLC 2021b), and "Tank 570 Release and Additional Areas Laser-Induced Fluorescence/Hydraulic Profiling Investigation Report" (Western LLC 2021c).



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Monitoring wells with SPH and calculated SPH thicknesses are summarized in Table 4-1. Monitoring wells with measurable SPH for the third quarter of 2022 are shown on Figure 4-4. Throughout the site, measured SPH thickness in 2022 varied compared to previous years, which is documented in Table 4-1. A few wells such as MKTF-13, MKTF-20, MKTF-26, MKTF-33, and OW-61 had a slight decrease in SPH thickness or SPH wasn't detected in 2022 when it had been previously. SPH was detected in BW-2A, MKTF-01R, MKTF-02R, MKTF-04R, MKTF-10, MKTF-11, MKTF-17R, MKTF-24, MKTF-25, MKTF-34, MKTF-35, MKTF-42, OW-58A, and OW-11 in 2022 for the first time in at least a year. These monitoring wells will continue to be monitored on a quarterly basis. SPH recovery efforts continued during 2022 and are discussed in Section 6.0.



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5.0 Sampling Results

Groundwater quality monitoring was performed in accordance with the 2022 Work Plan (Western LLC 2022b) and the 2022 Analyte List (Western LLC 2022a). A summary of the monitoring events and sample locations is presented in Table 3-1. Some monitoring wells were not sampled due to measurable SPH, insufficient water, or inability to access well. Monitoring program locations that did not contain detectable SPH during fluid level monitoring and had adequate water levels were sampled. The samples were analyzed by Hall Environmental Analysis Laboratory. The analytical data were compared to the cleanup levels, as detailed in Section 3.2.

Specific laboratory analyses performed on samples from each monitoring locations are detailed in the 2022 Work Plan (Western LLC 2022b) and the 2022 Analyte List (Western LLC 2022a). Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total and dissolved metals, and general chemistry analyses were performed (Tables 5-1 through 5-5). Field parameters were also collected prior to sample collection (Table 5-6). Field logs from the 2022 sampling events are provided in Appendix A, 2022 analytical laboratory reports are provided in Appendix C, and Tier II data validation reports are provided in Appendix D.

Pesticides were added to the analyte list for EP-2, but as discussed in Section 3.3, pesticide analysis was not conducted in 2022. PFAS were added to the analyte list for OW-63 and these data are included in Table 5-7.

5.1 Analytical Results

The analytical results are shown in Tables 5-1 through 5-5 and notable findings are described in Section 5.2. The analytical tables include the results from the 2022 monitoring events and some previous monitoring events to include a total of at least five monitoring events. VOCs are presented in Table 5-1 and SVOCs are presented in Table 5-2. Total and dissolved metal analytical results are presented in Tables 5-3 and 5-4, respectively. General chemistry analyses are presented in Table 5-5 and field parameter data are presented in Table 5-6. PFAS analyses are presented in Table 5-7. Analytical results that exceeded the appropriate cleanup levels are noted in Tables 5-1 through 5-5 and 5-7 as bolded values. Non-detected sampling results with reporting limits greater than the appropriate cleanup levels are noted by italics in the tables.

Analytical data where the detection limit values exceed the cleanup levels are considered data quality exceptions and will not be used to demonstrate compliance. These data quality exceptions are identified by italicized font and presented in Tables 5-1 through 5-5 and 5-7. Furthermore, data quality exceptions are identified in the tables where the data are presented and will continue in future submittals.



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Analytical results for benzene, toluene, ethylbenzene, and total xylenes and methyl tert-butyl ether for individual well groups are presented on Figures 5-1 through 5-9. Results that exceeded the cleanup levels are denoted as bolded and highlighted values. Other constituents were detected in the monitoring wells (Tables 5-1 through 5-5 and 5-7) but are not included on the figures.

5.2 Discussion of New Findings

Data collected in 2022 were generally consistent with previous monitoring events. No new significant findings were noted with the exceptions presented in the following paragraphs.

Per the Refinery's response to Comment 30 in the "Response to Disapproval, Annual Groundwater Monitoring Report Gallup Refinery – 2019 (Western LLC 2021a), PFAS were analyzed at well OW-63 starting in 2021. PFAS samples were collected during all four quarters. The PFAS data are provided in Table 5-7. PFAS will be sampled during 2023 at well OW-63 (Suzuki, M. 2022).

Per the Refinery's response to Comment 5 in the "Response to Approval with Modifications, Annual Groundwater Monitoring Report Gallup Refinery – 2019 (Western LLC 2021d), Pesticides were added to the analyte list for EP-2, but as discussed in Section 3.3, pesticide analysis was not conducted in 2022. Pesticides will be sampled twice during 2023 at EP-2.

Per the Refinery's response to Comment 11 of the NMED "Disapproval, 2020 Annual Groundwater Monitoring Report" (Western LLC 2022d), the Refinery agreed to evaluate whether groundwater recovery conducted at wells OW-54 and OW-55 was potentially impacting dissolved-phase constituent concentrations in OW-56. As shown on Figure 4-2, the potentiometric surface is 6,899.88 ft amsl in Well OW-54, 6,904.10 ft amsl in OW-55, and 6,905.95 ft amsl in OW-56. In this area of the Refinery, water is flowing from well OW-56 towards wells OW-54 and OW-55, which is consistent for the data collected in 2020, 2021, and 2022. Although recovery at OW-54 and OW-55 was not warranted during 2022, the fluid level data is consistent with reporting periods. Therefore, wells OW-54 and OW-55 are not influencing the dissolved phase constituent concentrations detected in OW-56. These wells will continue to be monitored quarterly.

5.3 QA/QC Analytical Results

Quality assurance/quality control (QA/QC) groundwater samples were collected during the groundwater monitoring and sampling events and were submitted for laboratory analyses. The analytical data reported from the receiving laboratory underwent Tier I and Tier II data validation by Trihydro's chemical data validation services group. Data qualified are presented in their respective tables, as listed in previous sections, where relevant. The Tier II data validation reports are provided in Appendix D. A summary of qualifiers and QA/QC sample results are discussed in the sections below.



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The following qualifiers were applied to the analytical data collected during 2022:

- J – estimated concentration
- J+ – estimated concentration, possibly biased high
- J- – estimated concentration, possibly biased low
- UJ – estimated reporting limit
- U – evaluated to be undetected at the reporting limit
- JB – estimated concentration due to blank contamination
- R – rejected, data not usable

5.3.1 Rejected Data

Out of the 2022 data packages, 99.2 percent (%) of the data received from the laboratory were acceptable; therefore, approximately 0.8% of the data were rejected during the data validation process. Rejected data were identified during in each of the four quarters. These data were rejected based on holding time exceedances, laboratory control sample/laboratory control sample duplicate percent recoveries, matrix spike/matrix spike duplicate recoveries, or surrogate recoveries. Rejected data are presented in their respective tables and explanations of the qualifiers can be found in the data validation reports provided in the following Appendices:

- Appendix D-1 – Reports 2203496, 2203574, 2203667, 2203825, 2203920, 2203989, and 2203C69
- Appendix D-2 – Reports 2206938 and 2206E09
- Appendix D-3 – Reports 2209441, 2209A41, and 2209E92
- Appendix D-4 – Reports 2212442, 2212630, 2212913, 2212E57, and 2212D48

5.3.2 Field Blanks

Forty-two field blank samples were collected during 2022. The field blanks were collected daily by adding distilled water to sample bottles in the field. Chloromethane, benzene, 2-butanone, ethylbenzene, 1,1-dichloroethene, acetone, methylene chloride, and 1,2-dichloroethane (EDC) were detected in field blanks collected during first quarter. Acetone, toluene, chloromethane, and methylene chloride were detected in field blanks collected during second quarter. Acetone and 2-butanone were detected in field blanks collected during third quarter, and no constituents were detected in field blanks during fourth quarter. Target analytes detected in the associated samples at concentrations less than



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the reporting limit were qualified as U. Detections that were greater than the blank detection but less than 10 times the blank concentration were qualified as J.

5.3.3 Trip Blanks

Forty-four trip blank samples were collected during 2022. Trip blanks are provided by the laboratory and are kept with the sample coolers during shipment to and from the laboratory. Benzene was detected during the first quarter sampling event on March 10, 2022, and March 24, 2022. Target analytes detected in the associated samples at concentrations less than the reporting limit were qualified as U. Detections that were greater than the blank detection but less than 10 times the blank concentration were qualified as JB. Non-detections of the target analytes in the associated samples and results greater than 10 times the blank detection did not require qualification.

5.3.4 Equipment Blanks

Forty-two equipment blank samples were collected during 2022. Equipment blanks were collected by cleaning reusable equipment and then collecting a sample from the equipment using distilled water. Forty-one analytes were detected in the equipment blanks. Target analytes detected in the associated samples at concentrations less than the reporting limit were qualified as U. Detections that were greater than the blank detection but less than 10 times the blank concentration were qualified as JB. Non-detections of the target analytes in the associated samples and results greater than 10 times the blank detection did not require qualification.

5.3.5 Field Duplicates

Duplicate samples were collected during all sample events of 2022. Forty-one duplicate samples were collected during the sampling events. The analytical results for the duplicate samples are included with their parent samples in previous tables. Relative percent difference (RPD) values were calculated and compared to the data validation quality control limit of 30%. RPD values greater than 30% were qualified as J due to evidence of poor precision. RPD values that exceeded 100% were assigned J qualifiers if detected in the associated samples, and UJ qualifiers if not detected due to evidence of moderately poor precision.



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6.0 Remediation Activities

Fluid recovery at the Refinery is reported quarterly in the Hydrocarbon Interim Measures Seep Reports. Remediation activities include vacuum truck recovery in the standpipe and retention ditch, borrow pit sumps, and wells.

Recovery data for 2022 is presented in Tables 6-1 (standpipe and retention ditch recovery) and 6-2 (well recovery). Prior to November 23, 2021, sump fluid recovery was calculated based on sump depths, widths, and fluid level data. This data has been removed from the Hydrocarbon Interim Measures Seep Reports as requested by NMED in Comment 4 "Approval with Modifications, Hydrocarbon Seep IM 2021 Fourth Quarter Status Report", dated June 6, 2022. Therefore, those calculations are not included in this Report as well. These activities will continue to be reported to NMED on a quarterly basis in the Hydrocarbon Interim Measures Seep Reports.



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7.0 Conclusions

Based on the 2022 groundwater gauging and analytical results, the following conclusions are presented:

- The groundwater monitoring wells screened in the Alluvial/Fluvial upper sand aquifer were consistently dry in 2022. BW-2A had water detected during the third quarter of 2022. The fluid levels in the groundwater monitoring wells screened in the Chinle/Alluvium aquifer and Sonsela aquifer remained generally consistent with previous events.
- The presence and distribution of SPH in 2022 has varied compared with historical monitoring data. Wells MKTF-13, MKTF-20, MKTF-26, MKTF-33, and OW-61 had slight decreases in SPH thickness, or SPH wasn't detected in 2022 when it had been previously, when compared to historical values.
- Based on the potentiometric surface map for the Chinle/Alluvium aquifer, water is flowing from well OW-56 towards wells OW-54 and OW-55, which is consistent for the data collected in 2020, 2021, and 2022. Therefore, wells OW-54 and OW-55 are not influencing the dissolved phase constituent concentrations detected in OW-56. These wells will continue to be monitored quarterly.
- Analytical data collected in 2022 were generally within historical ranges and there were no significant changes in the results.
- Recovery activities will continue to take place and will be summarized in the Hydrocarbon Interim Measures Seep Reports, submitted quarterly to NMED.

Gauging and sampling requirements will continue in accordance with the most current NMED-approved Facility Wide Groundwater Monitoring Work Plan. The 2023 Annual Groundwater Monitoring Report will be submitted no later than March 31, 2024. Site assessments will take place as required, and NMED will be notified of remediation activities.



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8.0 References

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Western Refining Southwest LLC
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Figures

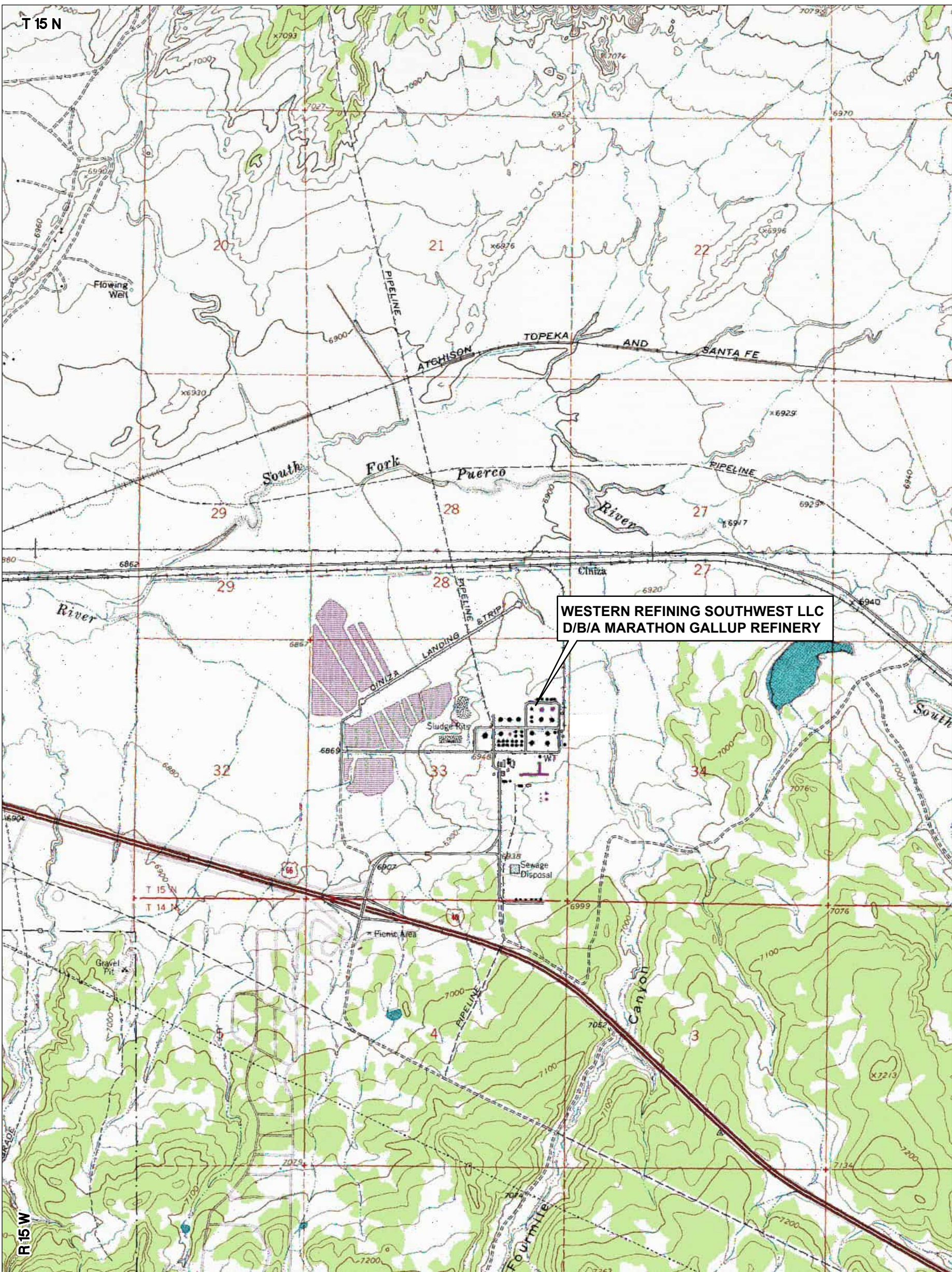
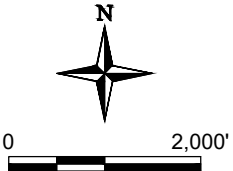


Image Cite: U.S. Geological Survey, 1:24,000—Scale 7.5 Minute Digital Raster Graphic Quadrangle, McKinley County, Publication: 2004

NOTE:
SITE LEGAL DESCRIPTION - TOWNSHIP 15 NORTH,
RANGE 15 WEST, SECTION 33, LOWER QUARTER
SECTION 28, AND NORTHEAST QUARTER SECTION 4.





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FIGURE 1-1			
SITE LOCATION AND TOPOGRAPHIC MAP			
WESTERN REFINING SOUTHWEST LLC D/B/A MARATHON GALLUP REFINERY GALLUP, NEW MEXICO			
Drawn By: REP	Checked By: BN	Scale: 1" = 2,000'	Date: 2/3/2022
File: 697-AR-TOPOMAP-2021			

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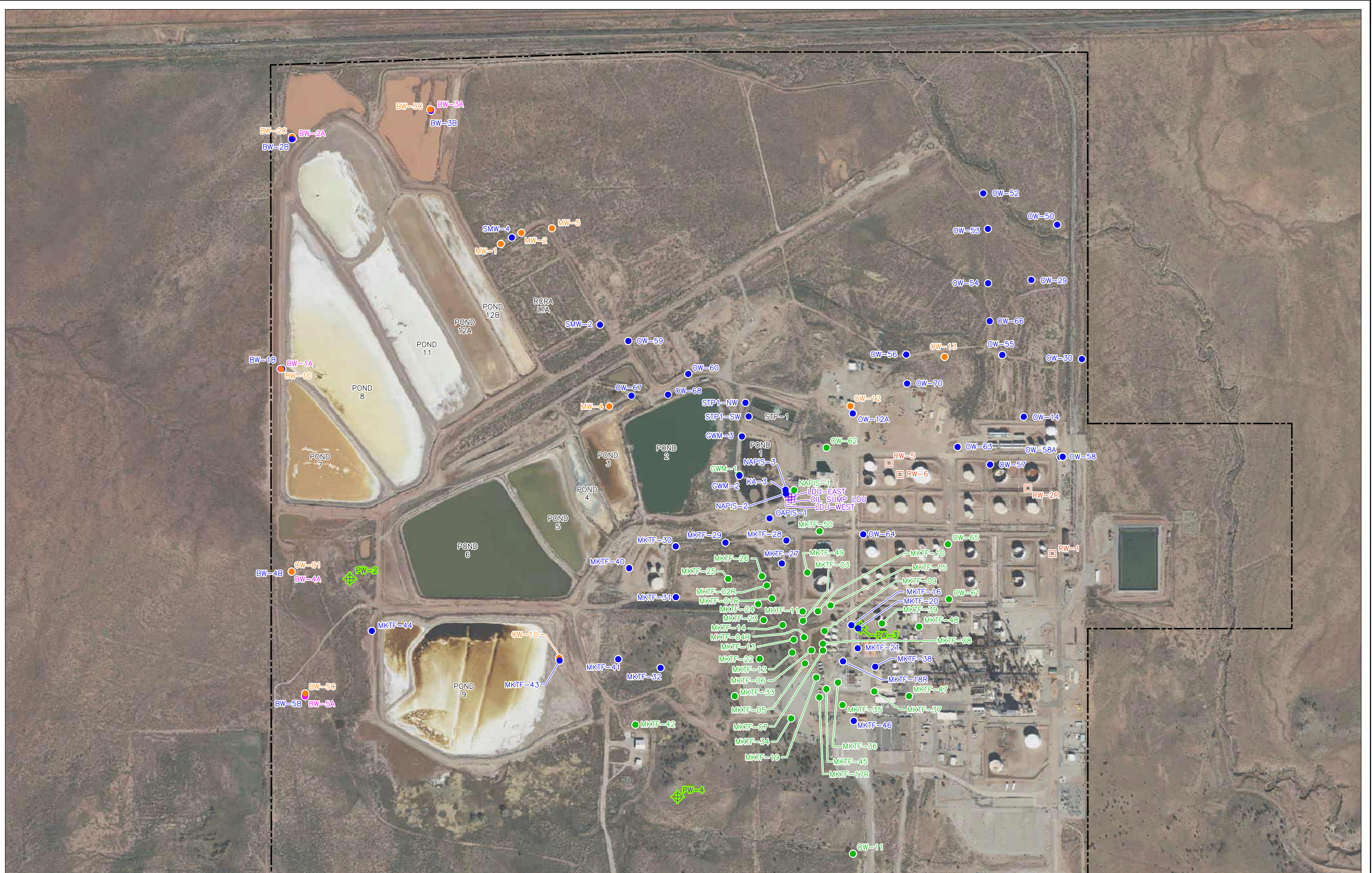


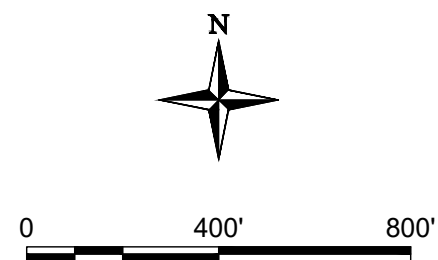
Image Cite: DigitalGlobe © CNES (2022) Distribution Airbus DS © Microsoft Corporation, Bing Imagery

EXPLANATION

- BW-5A ALLUVIAL/FLUVIAL UPPER SAND AQUIFER MONITORING WELL AND DESIGNATION
- BW-5B CHINLE/ALLUVIUM AQUIFER MONITORING WELL AND DESIGNATION
- MKTF-14 SPH MONITORING WELL AND DESIGNATION (BASED ON THRID QUARTER SPH DATA)
- BW-5C SONSELA AQUIFER MONITORING WELL AND DESIGNATION
- + PW-2 RAW WATER PRODUCTION WELL AND DESIGNATION
- RW-6 RECOVERY WELL AND DESIGNATION
- + LDU-EAST LEAK DETECTION UNIT AND DESIGNATION

- PROPERTY BOUNDARY (APPROXIMATE)
- LDU
SPH LEAK DETECTION UNIT
SEPARATE PHASE HYDROCARBON

NOTE:
LDU-EAST, LDU-WEST, OIL SUMP LDU, STP-1 TO EP-2, AND ALL PONDS ARE SURFACE WATER SAMPLE LOCATIONS.



 Trihydro CORPORATION 1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729	FIGURE 2-1			
	SITE PLAN			
	WESTERN REFINING SOUTHWEST LLC MARATHON GALLUP REFINERY GALLUP, NEW MEXICO			
Drawn By: REP	Checked By: BN	Scale: 1" = 400'	Date: 1/27/2023	File: 697-AR-SITEMAP-2021R2023

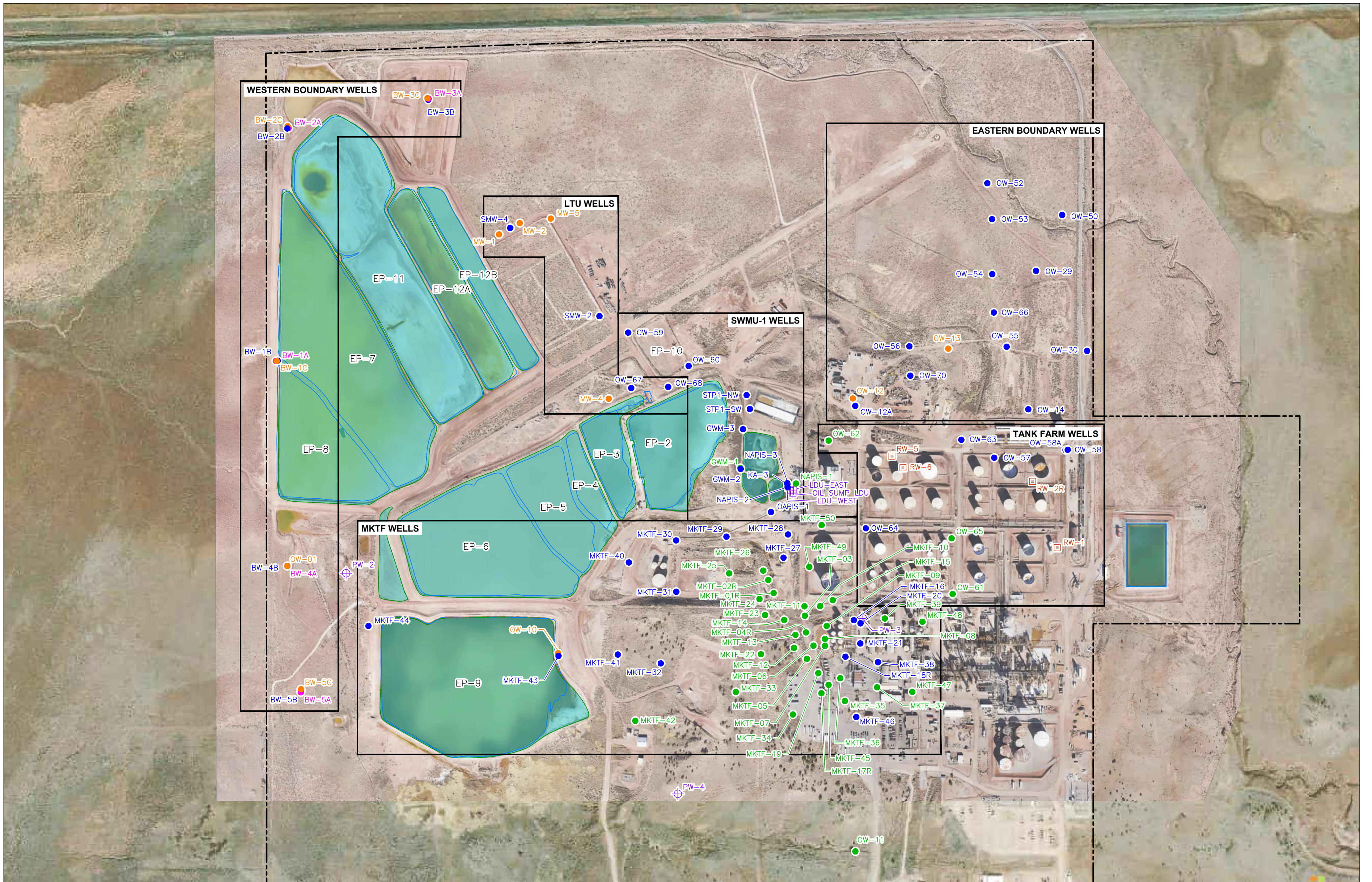


Image Cite: USDA/FSA - Aerial Photography Field Office, NAD MeSID - Publication: 2014

EXPLANATION

● BW-5A	ALLUVIAL/FLUVIAL UPPER SAND AQUIFER MONITORING WELL AND DESIGNATION
● BW-5B	CHINLE/ALLUVIUM AQUIFER MONITORING WELL AND DESIGNATION
● MKTF-14	SPH MONITORING WELL AND DESIGNATION (BASED ON THIRD QUARTER 2022 SPH DATA)
● BW-5C	SONSELA AQUIFER MONITORING WELL AND DESIGNATION
⊕ PW-4	RAW WATER PRODUCTION WELL AND DESIGNATION
□ RW-6	RECOVERY WELL AND DESIGNATION
⊕ LDU-WEST	LEAK DETECTION UNIT AND DESIGNATION

---	PROPERTY BOUNDARY (APPROXIMATE)
□	WELL GROUP
■	SURFACE WATER
EP	EVAPORATION POND
LTU	LAND TREATMENT UNIT
MKTF	MARKETING TANK FARM
SPH	SEPARATE PHASE HYDROCARBON (DETECTED IN 2022)
SWMU	SOLID WASTE MANAGEMENT UNIT

NOTE:

LDU-EAST, LDU-WEST, OIL SUMP LDU, STP-1 TO EP-2, AND OTHER EP'S ARE SURFACE WATER SAMPLE LOCATIONS.

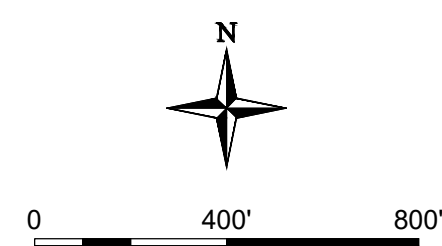


FIGURE 3-1

FACILITY AND WELL GROUPS 2022

**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO**

Drawn By: REP	Checked By: BN	Scale: 1" = 400'	Date: 2/3/2022	File: 697-AR-FACWELLGROUPS-2022
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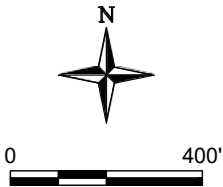


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EXPLANATION

● BW-2A
6840.92

MONITORING WELL AND DESIGNATION
(SHOWING GROUNDWATER ELEVATION
IN FEET ABOVE MEAN SEA LEVEL)





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FIGURE 4-1

**ALLUVIAL / FLUVIAL UPPER SAND AQUIFER
POTENTIOMETRIC SURFACE MAP (2022)**

**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO**

Drawn By: REP	Checked By: BN	Scale: 1" = 400'	Date: 12/12/2022	File: 697-AR-PS-ALLUVIAL-202209
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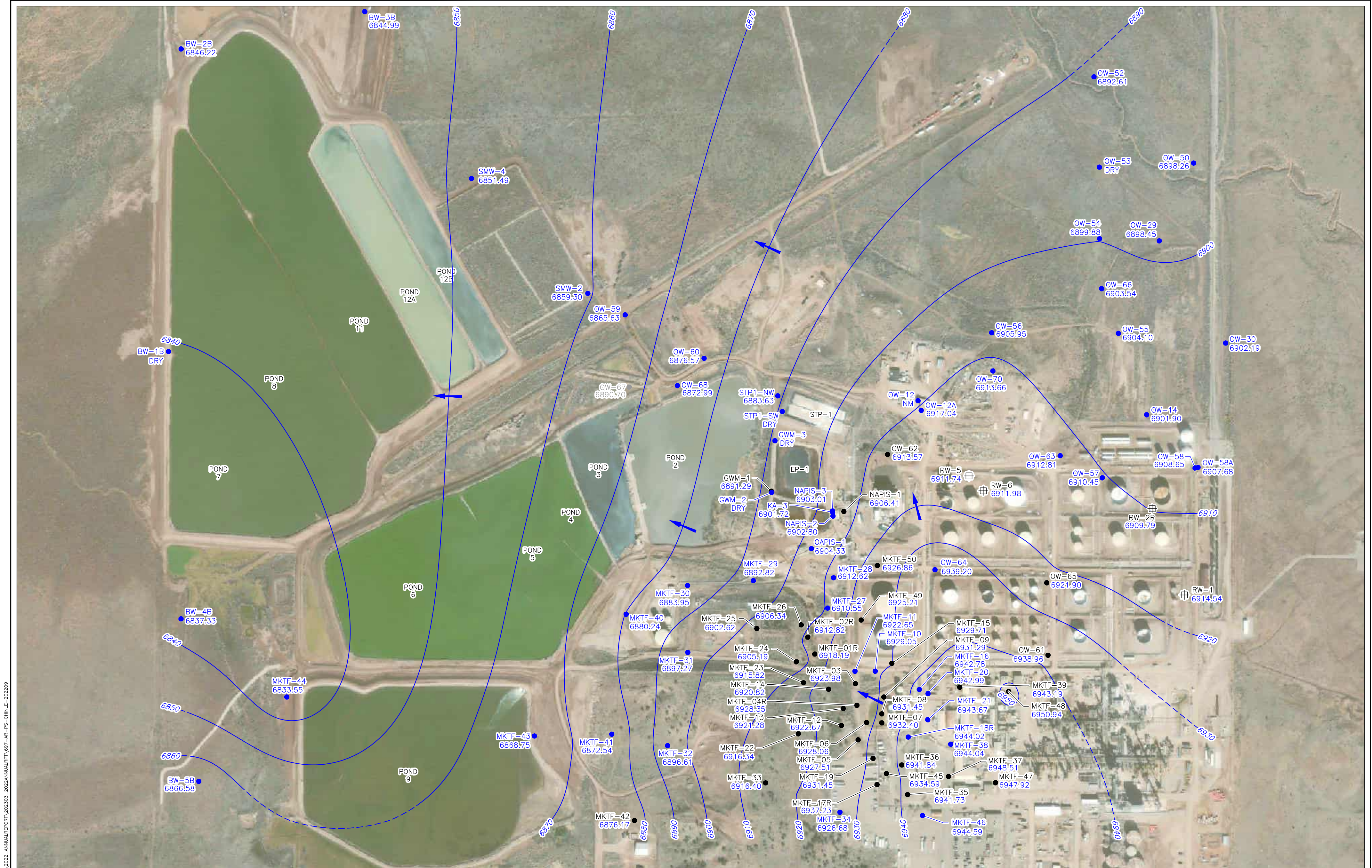


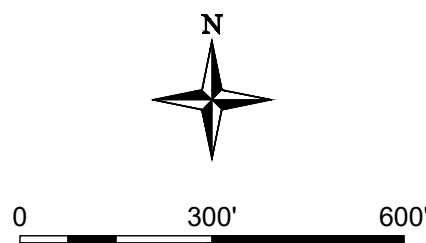
Image Cite: DigitalGlobe © CNES (2022) Distribution Airbus DS © Microsoft Corporation, BING Imagery

EXPLANATION

- BW-5B 6866.58 CHINLE / ALLUVIUM AQUIFER WELL AND DESIGNATION (SHOWING GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL)
- 6860 --- LINE OF EQUAL ELEVATION OF POTENTIOMETRIC SURFACE (FEET ABOVE MEAN SEA LEVEL, DASHED WHERE INFERRED)
- ESTIMATED GROUNDWATER FLOW DIRECTION
- MKTF-06 SPH MONITORING WELL AND DESIGNATION (BASED ON THIRD QUARTER 2022 SPH DATA)
- ⊕ RW-1 RECOVERY WELL
- NM NOT MEASURED
- SPH SEPARATE PHASE HYDROCARBON

NOTES:

1. POTENTIOMETRIC SURFACE GENERATED USING THIRD QUARTER 2022 ANNUAL MONITORING EVENT DATA.
2. DATA FROM WELL OW-67 APPEARS TO BE ANOMALOUS AND WAS NOT USED IN THE CONTOUR GENERATION FOR THIS REPORTING PERIOD.





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FIGURE 4-2

**CHINLE/ALLUVIUM AQUIFER
POTENTIOMETRIC SURFACE MAP (2022)**

**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO**

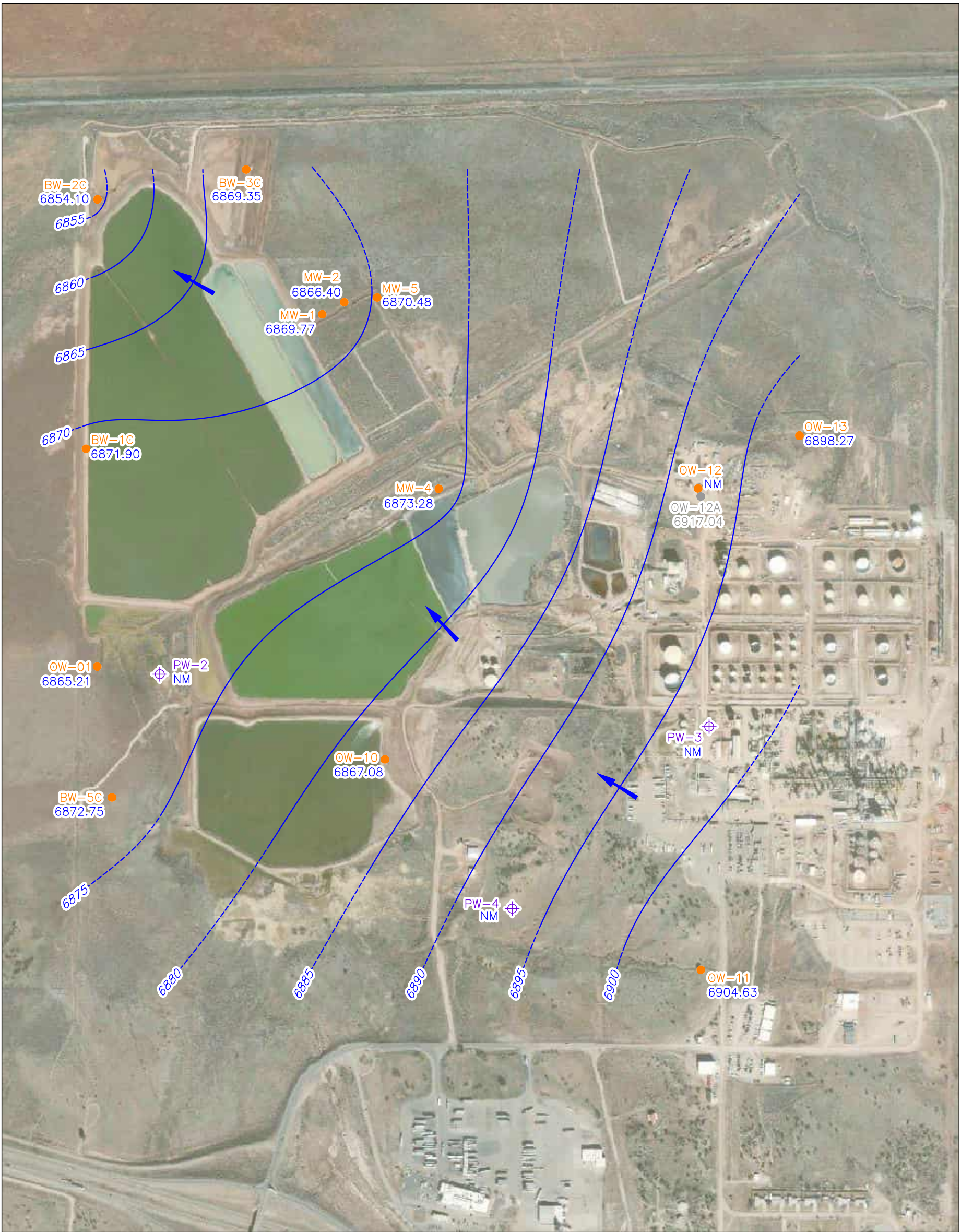


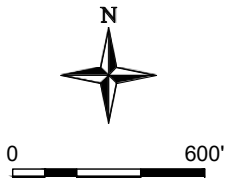
Image Cite: DigitalGlobe © CNES (2022) Distribution Airbus DS © Microsoft Corporation, BING Imagery

EXPLANATION

- BW-5C 6872.75
SONSELA Aquifer Monitoring Well and Designation (Showing Groundwater Elevation in Feet Above Mean Sea Level)
- 6875
Line of Equal Elevation of Potentiometric Surface (Feet Above Mean Sea Level, Dashed Where Inferred)
- Estimated Groundwater Flow Direction
- ⊕ PW-4 NM
Raw Water Production Well and Designation
- NM
Not Measured

NOTES:

- POTENTIOMETRIC SURFACE GENERATED USING THIRD QUARTER 2022 ANNUAL MONITORING EVENT.
- OW-01 AND OW-10 NOT INCLUDED IN CONTOUR DUE TO ARTESIAN CONDITIONS PRESENT.
- DATA FROM WELL OW-12A APPEARS TO BE ANOMALOUS AND WAS NOT USED IN THE CONTOUR GENERATION FOR THIS REPORTING PERIOD.

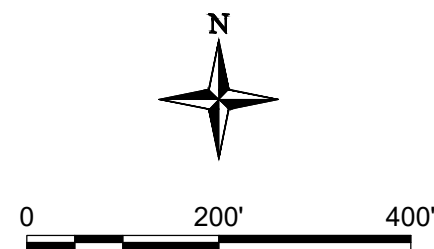


 Trihydro CORPORATION 1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729	FIGURE 4-3			
	SONSELA Aquifer Potentiometric Surface Map (2022)			
	WESTERN REFINING SOUTHWEST LLC D/B/A MARATHON GALLUP REFINERY GALLUP, NEW MEXICO			
Drawn By: REP	Checked By: BN	Scale: 1" = 600'	Date: 12/12/2022	File: 697-AR-PS-SONSELA-202209



Image Cite: USDA/FSA - Aerial Photography Field Office, NAIP MrSID - Publication: 2014

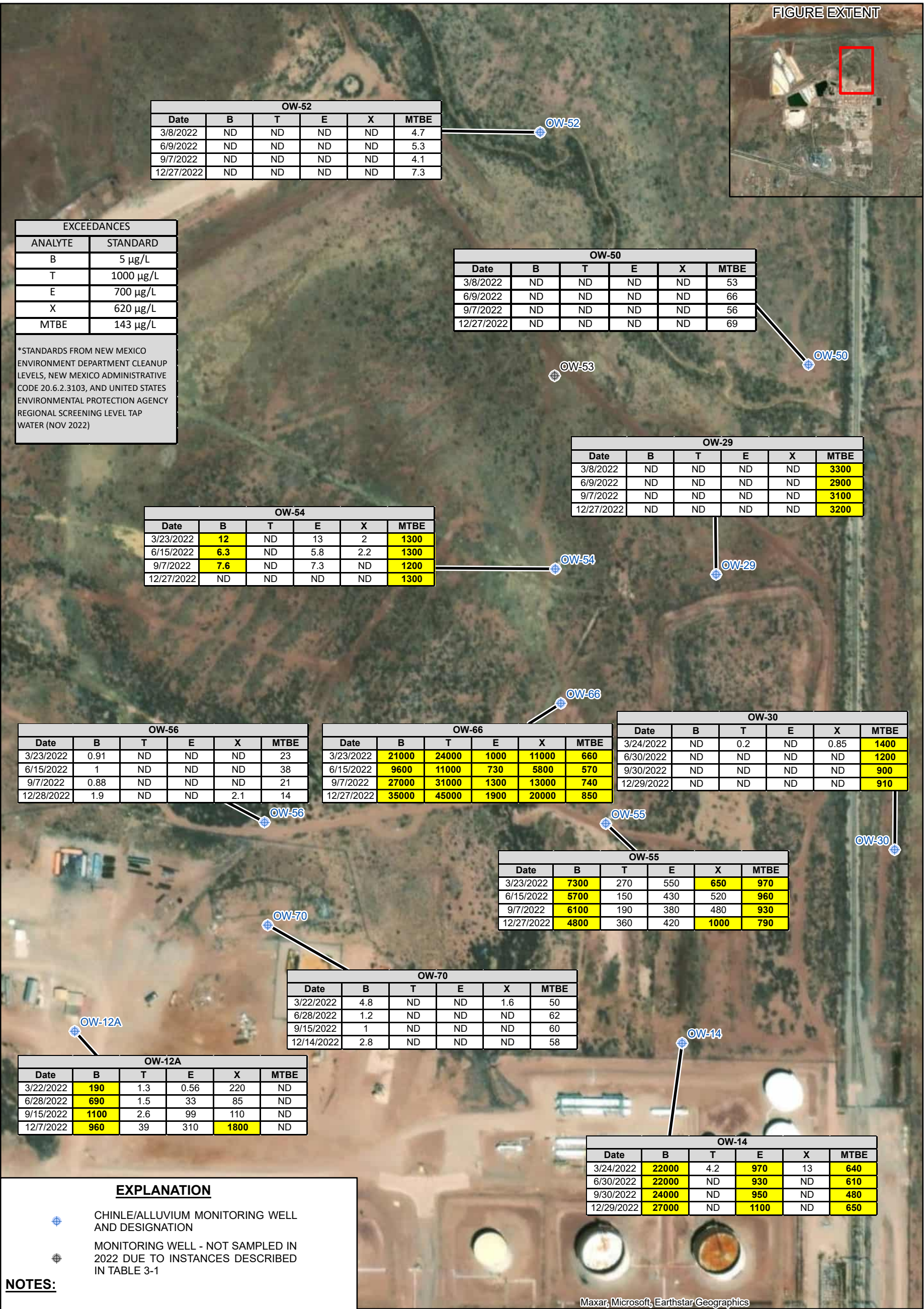
- | EXPLANATION | |
|------------------|--|
| ● MKTF-33
.04 | SPH MONITORING WELL AND DESIGNATION
(SHOWING SPH THICKNESS IN FEET) |
| ⊞ RW-6
1.93 | RECOVERY WELL AND DESIGNATION
(SHOWING SPH THICKNESS IN FEET) |
| ● OW-10 | SONSELA AQUIFER MONITORING WELL AND DESIGNATION |
| ● MKTF-32 | CHINLE/ALLUVIUM AQUIFER MONITORING WELL AND DESIGNATION |
| ● SPH | SEPARATE PHASE HYDROCARBON |





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FIGURE 4-4				
SPH THICKNESS MAP 3RD QUARTER 2022				
WESTERN REFINING SOUTHWEST LLC D/B/A MARATHON GALLUP REFINERY GALLUP, NEW MEXICO				
Drawn By: REP	Checked By: BN	Scale: 1" = 200'	Date: 1/27/2023	File:697-AR_SPH-THICK-2022



EXPLANATION

CHINLE/ALLUVIUM MONITORING WELL AND DESIGNATION

MONITORING WELL - NOT SAMPLED IN 2022 DUE TO INSTANCES DESCRIBED IN TABLE 3-1

NOTES:

B - BENZENE
E - ETHYLBENZENE
T - TOLUENE
X - XYLENE
MTBE - METHYL TERT BUTYL ETHER
- ALL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)
- DETECTS EXCEEDING THE STANDARD ARE **BOLD AND HIGHLIGHTED**



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FIGURE 5-1

**EASTERN BOUNDARY MONITORING WELLS
BTX AND MTBE**

**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO**

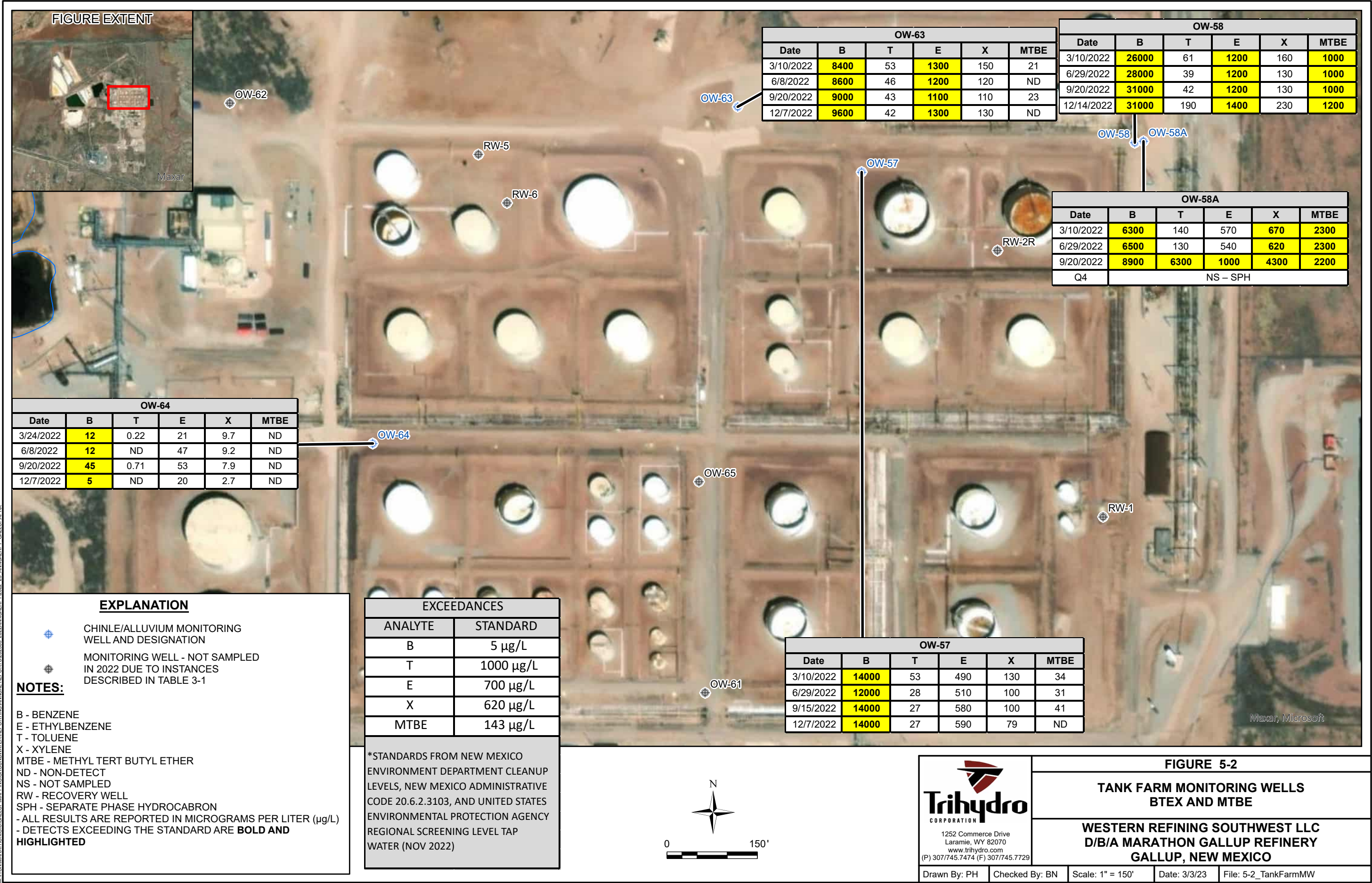
Drawn By: PH

Checked By: BN

Scale: 1" = 175'

Date: 3/3/23

File: 5-1_EasternBoundaryMW





EXPLANATION

- ◆ CHINLE/ALLUVIUM MONITORING WELL AND DESIGNATION
- ◆ MONITORING WELL - NOT SAMPLED IN 2022 DUE TO INSTANCES DESCRIBED IN TABLE 3-1

NOTES:

- B - BENZENE
- E - ETHYLBENZENE
- T - TOLUENE
- X - XYLENE
- MTBE - METHYL TERT BUTYL ETHER
- ND - NON-DETECT
- NS - NOT SAMPLED
- SPH - SEPARATE PHASE HYDROCARBON
- ALL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)
- DETECTS EXCEEDING THE STANDARD ARE **BOLD AND HIGHLIGHTED**

EXCEEDANCES	
ANALYTE	STANDARD
B	5 µg/L
T	1000 µg/L
E	700 µg/L
X	620 µg/L
MTBE	143 µg/L
*STANDARDS FROM NEW MEXICO ENVIRONMENT DEPARTMENT CLEANUP LEVELS, NEW MEXICO ADMINISTRATIVE CODE 20.6.2.3103, AND UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGIONAL SCREENING LEVEL TAP WATER (NOV 2022)	

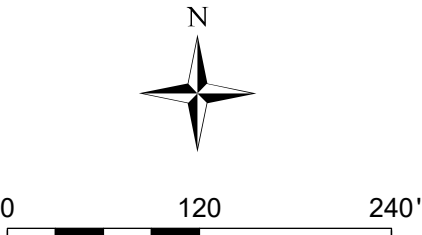
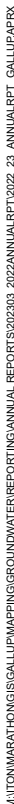


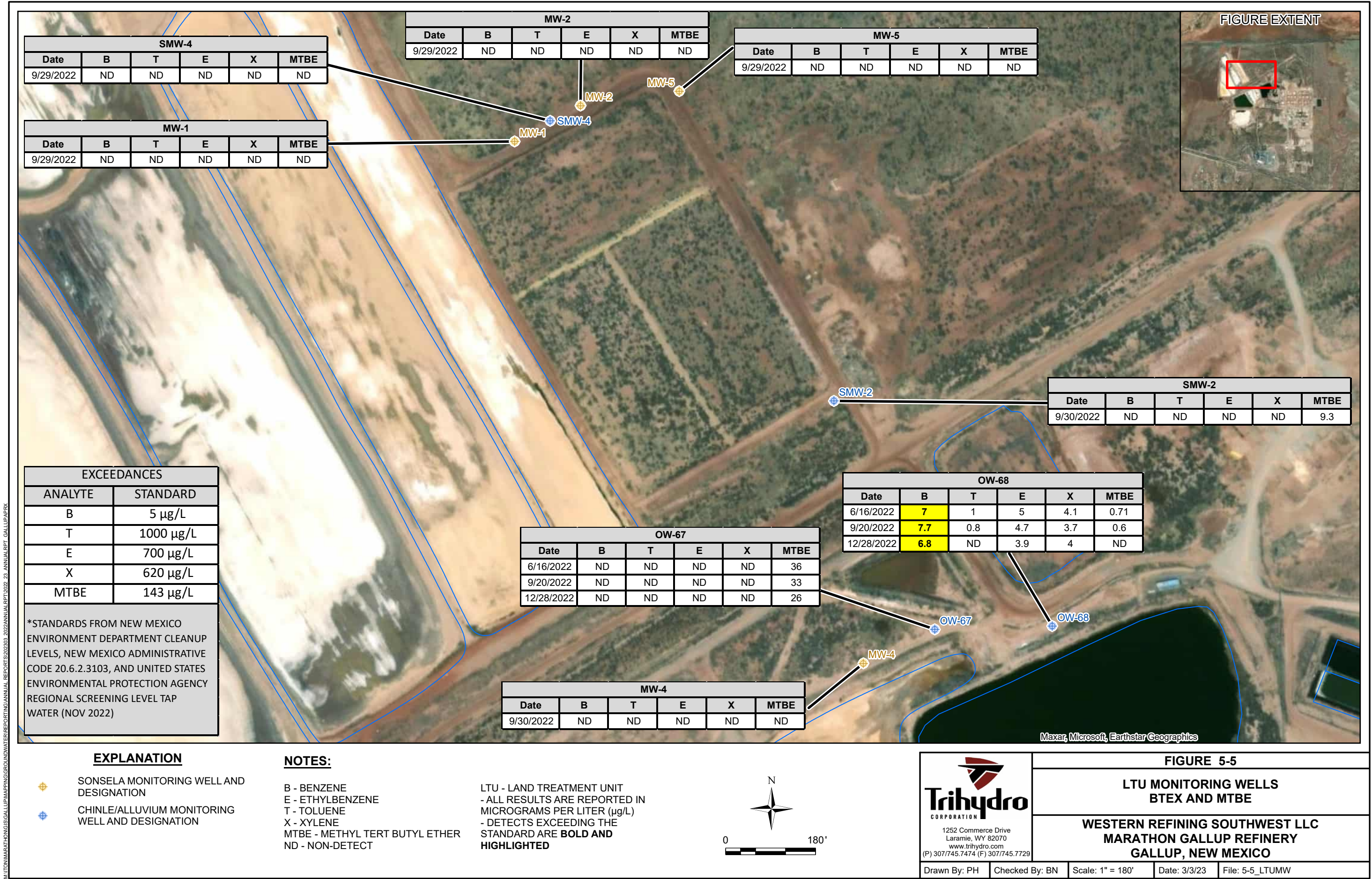
FIGURE 5-3

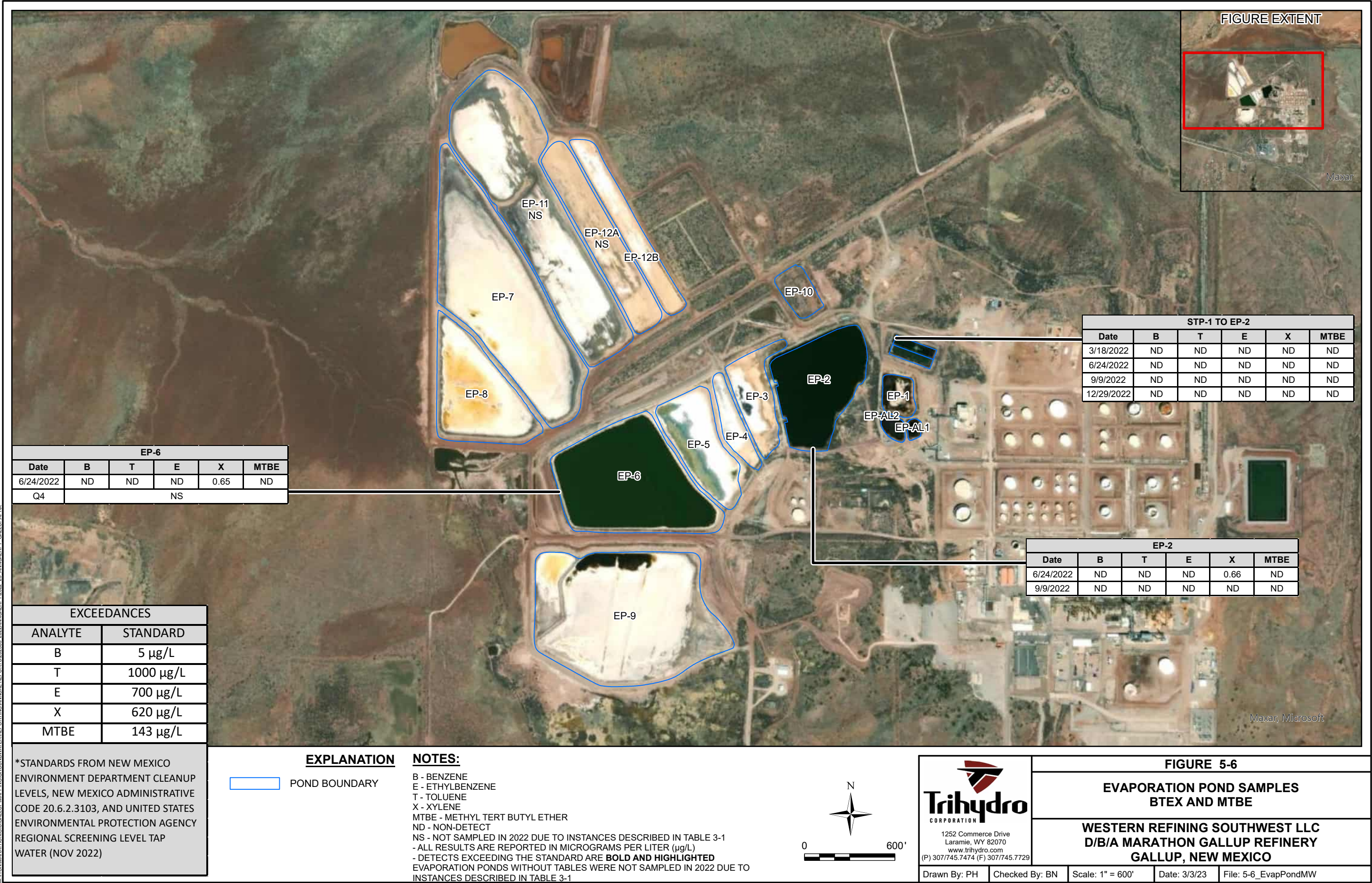
**MARKETING TANK FARM MONITORING WELLS
BTEX AND MTBE**

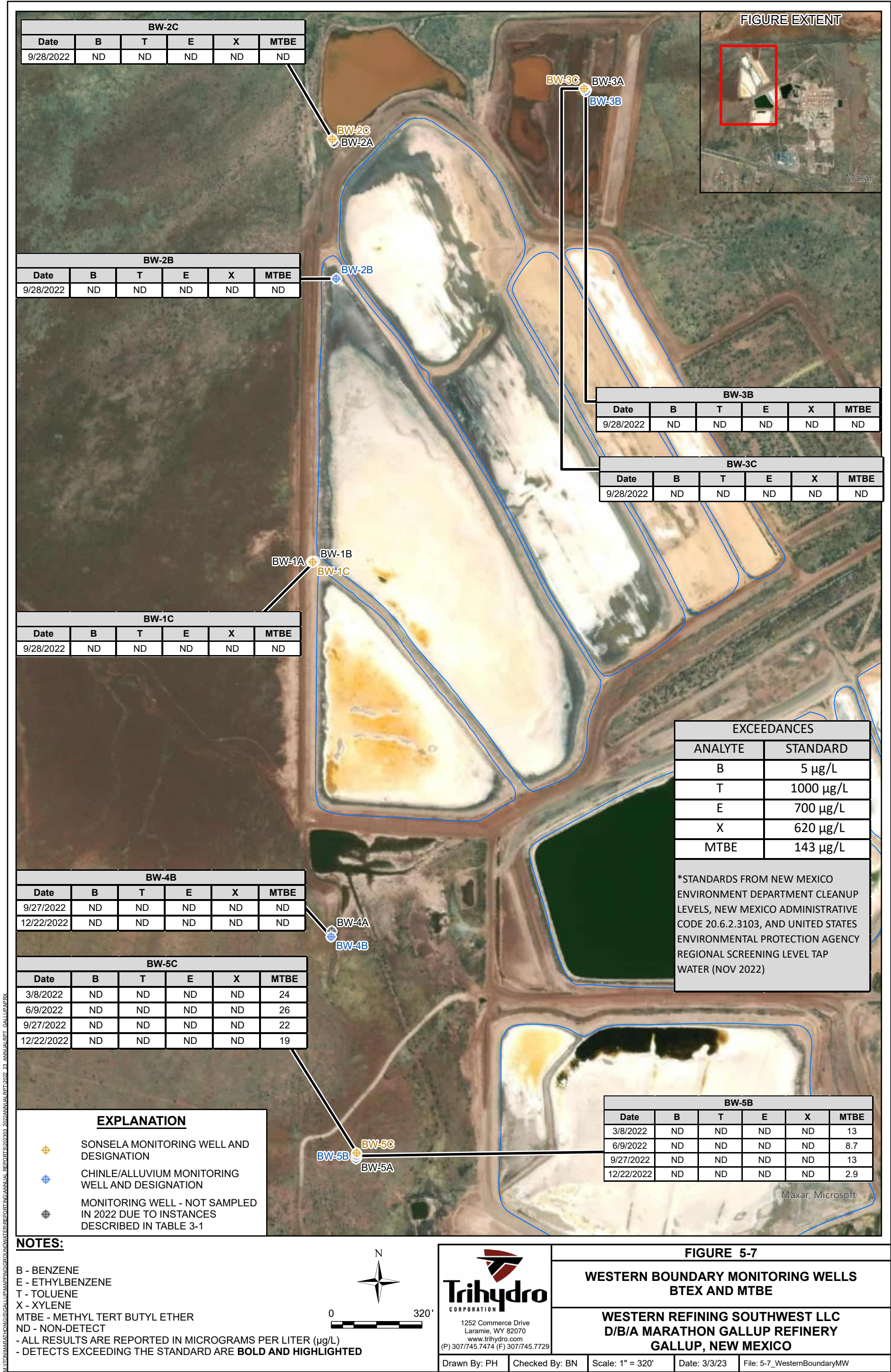
**WESTERN REFINING SOUTHWEST LLC
D/B/A MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO**

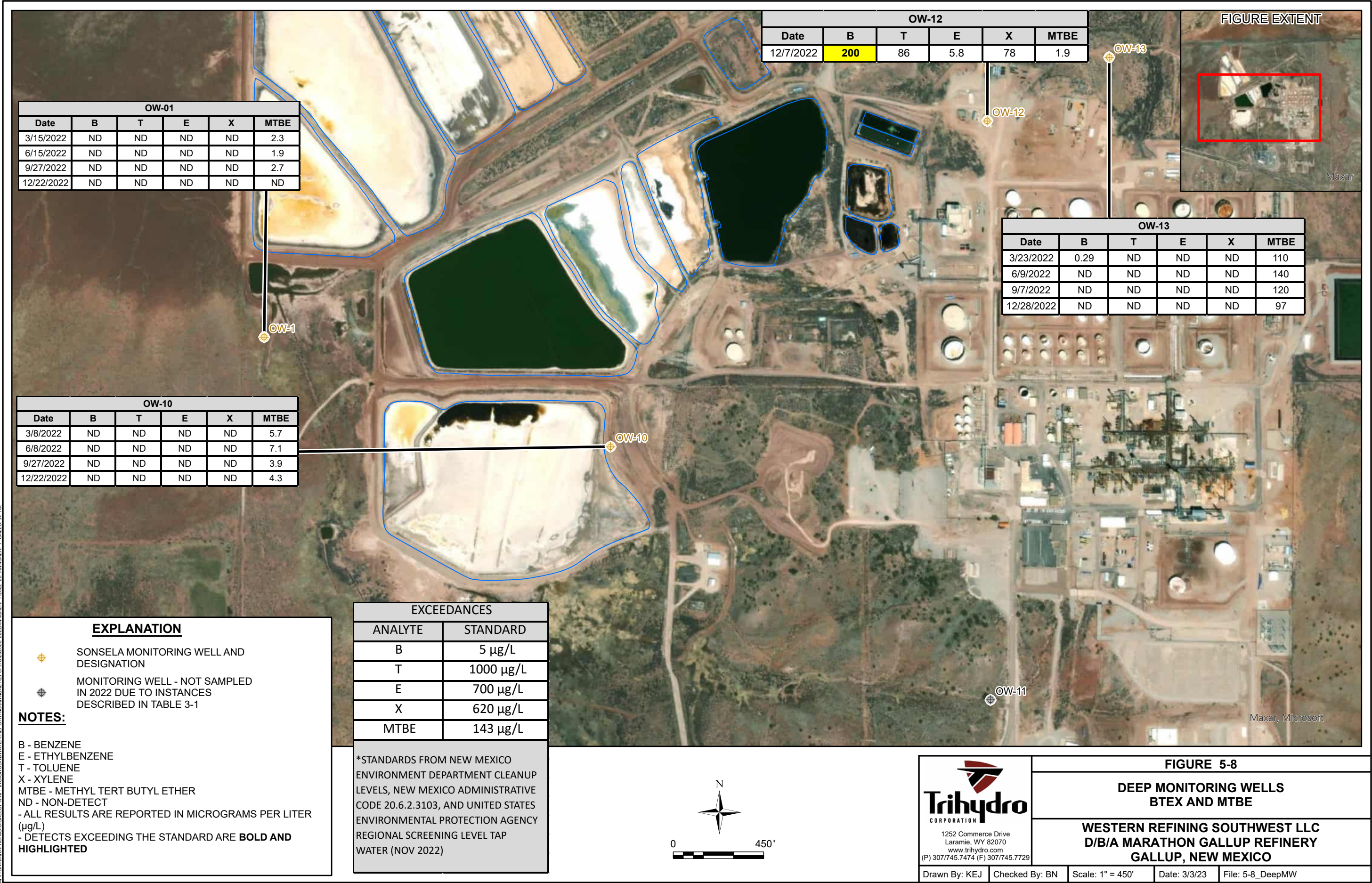
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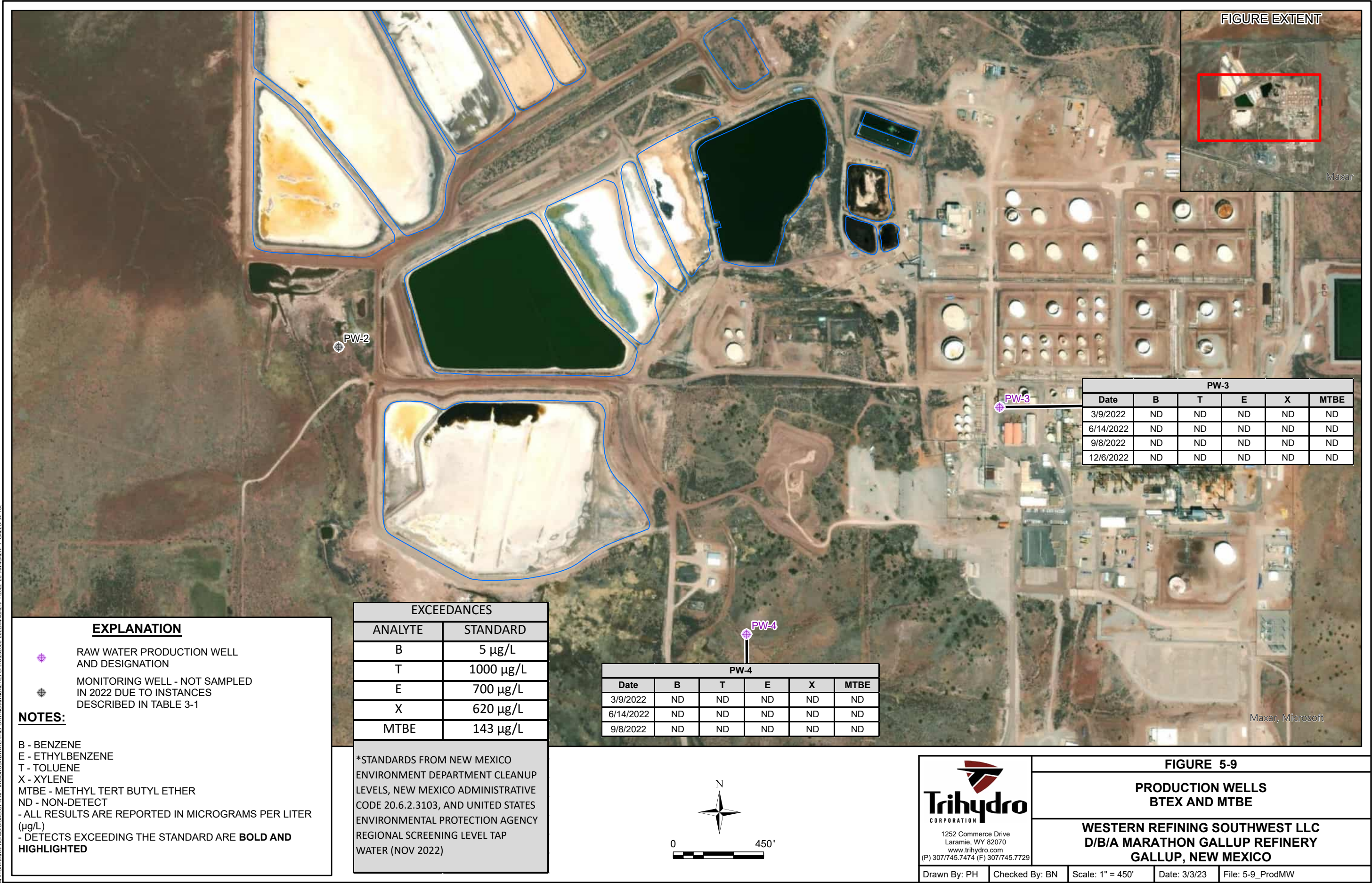














Western Refining Southwest LLC
D/B/A Marathon Gallup Refinery
2022 Annual Groundwater Monitoring Report

Tables

TABLE 3-1. GROUNDWATER MONITORING PROGRAM 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Group	Monitoring Well	Sampling Frequency	1Q2022	2Q2022	3Q2022	4Q2022
Deep Monitoring Wells	OW-01	Quarterly	3/15/2022	6/15/2022	9/27/2022	12/22/2022
	OW-10	Quarterly	3/8/2022	6/8/2022	9/21/2022	12/22/2022
	OW-11	Annually	NA	NA	NS – SPH	NS – SPH
	OW-12	Semiannually	NA	NS	NA	12/7/2022
	OW-13	Quarterly	3/23/2022	6/9/2022	9/7/2022	12/28/2022
Eastern Boundary Wells	OW-12A	Quarterly	3/22/2022	6/28/2022	9/15/2022	12/7/2022
	OW-14	Quarterly	3/24/2022	6/30/2022	9/30/2022	12/29/2022
	OW-29	Quarterly	3/8/2022	6/9/2022	9/7/2022	12/27/2022
	OW-30	Quarterly	3/24/2022	6/30/2022	9/30/2022	12/29/2022
	OW-50	Quarterly	3/8/2022	6/9/2022	9/7/2022	12/27/2022
	OW-52	Quarterly	3/8/2022	6/9/2022	9/7/2022	12/27/2022
	OW-53	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	OW-54	Quarterly	3/23/2022	6/15/2022	9/7/2022	12/27/2022
	OW-55	Quarterly	3/23/2022	6/15/2022	9/7/2022	12/27/2022
	OW-56	Quarterly	3/23/2022	6/15/2022	9/7/2022	12/28/2022
Evaporation Ponds	OW-66	Quarterly	3/23/2022	6/15/2022	9/6/2022	12/27/2022
	OW-70	Quarterly	3/22/2022	6/28/2022	9/15/2022	12/14/2022
	EP-2	Semiannually	NA	6/24/2022	9/9/2022	NS – UTA
	EP-3	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-4	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-5	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-6	Semiannually	NA	6/24/2022	NA	NS – UTA
	EP-7	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-8	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-9	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-11	Semiannually	NA	NS – Dry	NA	NS – Dry
Land Treatment Unit Wells	EP-12A	Semiannually	NA	NS – Dry	NA	NS – Dry
	EP-12B	Semiannually	NA	NS – Dry	NA	NS – Dry
	STP-1 to EP-2	Quarterly	3/18/2022	6/24/2022	9/9/2022	12/29/2022
	MW-1	Annually	NA	NA	9/29/2022	NA
	MW-2	Annually	NA	NA	9/29/2022	NA
	MW-4	Annually	NA	NA	9/30/2022	NA
	MW-5	Annually	NA	NA	9/9/2022	NA
	SMW-2	Annually	NA	NA	9/30/2022	NA
	SMW-4	Annually	NA	NA	9/28/2022	NA
	OW-67	Annually	NA	6/16/2022	9/20/2022	12/28/2022
	OW-68	Annually	NA	6/16/2022	9/20/2022	12/28/2022

TABLE 3-1. GROUNDWATER MONITORING PROGRAM 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Group	Monitoring Well	Sampling Frequency	1Q2022	2Q2022	3Q2022	4Q2022
Marketing Tank Farm Wells	MKTF-01R	Quarterly	3/17/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-02R	Quarterly	3/16/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-03	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-04R	Quarterly	3/15/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-05	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-06	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-07	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-08	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-09	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-10	Quarterly	3/15/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-11	Quarterly	3/15/2022	6/21/2022	NS – SPH	NS – SPH
	MKTF-12	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-13	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-14	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-15	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-16	Quarterly	3/23/2022	6/21/2022	9/15/2022	12/6/2022
	MKTF-17R	Quarterly	3/15/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-18R	Quarterly	3/15/2022	6/21/2022	9/13/2022	12/6/2022
	MKTF-19	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-20	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	MKTF-21	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	MKTF-22	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-23	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-24	Quarterly	3/16/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-25	Quarterly	3/16/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-26	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-27	Quarterly	3/17/2022	6/24/2022	9/14/2022	12/8/2022
	MKTF-28	Quarterly	3/17/2022	6/24/2022	9/14/2022	12/8/2022
	MKTF-29	Quarterly	3/17/2022	6/28/2022	9/14/2022	12/8/2022
	MKTF-30	Quarterly	3/17/2022	6/28/2022	9/14/2022	12/15/2022
	MKTF-31	Quarterly	3/16/2022	6/22/2022	9/13/2022	12/8/2022
	MKTF-32	Quarterly	3/9/2022	6/16/2022	9/27/2022	12/29/2022
	MKTF-33	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-34	Quarterly	3/9/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-35	Quarterly	3/10/2022	6/21/2022	NS – SPH	NS – SPH
	MKTF-36	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-37	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-38	Quarterly	3/15/2022	6/21/2022	9/13/2022	12/6/2022
	MKTF-39	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-40	Quarterly	3/16/2022	6/22/2022	9/13/2022	12/8/2022
	MKTF-41	Quarterly	3/9/2022	6/16/2022	9/21/2022	12/29/2022
	MKTF-42	Quarterly	3/9/2022	NS – SPH	NS – SPH	NS – SPH
	MKTF-43	Quarterly	3/8/2022	6/16/2022	9/27/2022	12/22/2022
	MKTF-44	Quarterly	3/24/2022	6/29/2022	9/27/2022	12/22/2022
	MKTF-45	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-46	Quarterly	3/10/2022	6/21/2022	9/13/2022	12/6/2022
	MKTF-47	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-48	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-49	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	MKTF-50	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH

TABLE 3-1. GROUNDWATER MONITORING PROGRAM 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Group	Monitoring Well	Sampling Frequency	1Q2022	2Q2022	3Q2022	4Q2022
Production Wells	PW-2*	Every 3 Years	NA	NA	NA	NA
	PW-3	Quarterly	3/9/2022	6/14/2022	9/8/2022	12/6/2022
	PW-4	Annually	3/9/2022	6/15/2022	9/8/2022	NA
Solid Waste Management Unit 1 Wells	GWM-1	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	GWM-2	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	GWM-3	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	OW-59	Quarterly	3/23/2022	6/15/2022	9/30/2022	12/28/2022
	OW-60	Quarterly	3/23/2022	6/16/2022	9/20/2022	12/28/2022
	NAPIS-1	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	NAPIS-2	Quarterly	3/22/2022	6/23/2022	9/14/2022	12/14/2022
	NAPIS-3	Quarterly	3/22/2022	6/24/2022	9/14/2022	12/14/2022
	KA-3	Quarterly	3/22/2022	6/24/2022	9/14/2022	12/14/2022
	OAPIS-1	Quarterly	3/22/2022	6/28/2022	9/14/2022	12/15/2022
	STP1-NW	Quarterly	3/24/2022	6/28/2022	9/20/2022	12/15/2022
	STP1-SW	Quarterly	NS – Dry	NS – Dry	NS – Dry	NS – Dry
	LDU-East	Quarterly	3/18/2022	6/14/2022	9/8/2022	12/6/2022
	LDU-West	Quarterly	3/18/2022	6/14/2022	9/8/2022	12/6/2022
	Oil Sump LDU	Quarterly	NS	NS	NS	NS
Tank Farm Wells	OW-57	Quarterly	3/10/2022	6/29/2022	9/15/2022	12/7/2022
	OW-58	Quarterly	3/10/2022	6/29/2022	9/20/2022	12/14/2022
	OW-58A	Quarterly	3/10/2022	6/29/2022	9/20/2022	NS – SPH
	OW-61	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	OW-62	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	OW-63	Quarterly	3/10/2022	6/8/2022	9/20/2022	12/7/2022
	OW-64	Quarterly	3/24/2022	6/8/2022	9/20/2022	12/7/2022
	OW-65	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	RW-1	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	RW-2R	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
Western Boundary Wells	RW-5	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	RW-6	Quarterly	NS – SPH	NS – SPH	NS – SPH	NS – SPH
	BW-1A	Annually	NA	NA	NS – Dry	NA
	BW-1B	Annually	NA	NA	NS – Dry	NA
	BW-1C	Annually	NA	NA	9/28/2022	NA
	BW-2A	Annually	NA	NA	NS – SPH	NA
	BW-2B	Annually	NA	NA	9/28/2022	NA
	BW-2C	Annually	NA	NA	9/28/2022	NA
	BW-3A	Annually	NA	NA	NS – Dry	NA
	BW-3B	Annually	NA	NA	9/28/2022	NA
	BW-3C	Annually	NA	NA	9/28/2022	NA
	BW-4A	Annually	NA	NA	NS – Dry	NA
	BW-4B	Annually	NA	NA	9/27/2022	12/22/2022
	BW-5A	Annually	NA	NA	NS – Dry	NA
	BW-5B	Quarterly	3/8/2022	6/9/2022	9/27/2022	12/22/2022
	BW-5C	Quarterly	3/8/2022	6/9/2022	9/27/2022	12/22/2022

LDU - Leak Detection Unit

NA - Not Applicable

NS - Not Sampled

Q - Quarter

RW - Recovery Well

SPH - Separate Phase Hydrocarbon

UTA - Unable to Access due to frozen pond

Notes:

NS - Dry denotes a well that was either fully dry, or did not have enough water to sample

* - PW-2 is sampled every 3 years, beginning in 2008; next event is 2023

TABLE 3-2. CLEANUP LEVELS
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

ANALYTE	NMED GW Cleanup Levels ^a	40 CFR 141.62 ^b	NMED Tap Water ^c	USEPA RSL Tap Water HQ 1.0 ^d	NMED TPH Levels ^e	Cleanup Level
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane (ug/L)	NA	NA	5.74	0.57	NA	5.74
1,1,1-Trichloroethane (ug/L)	200	NA	8,003	8,000	NA	200
1,1,2,2-Tetrachloroethane (ug/L)	10	NA	0.757	0.076	NA	10
1,1,2-Trichloroethane (ug/L)	5	NA	0.41 *	0.28	NA	5
1,1-Dichloroethane (ug/L)	25	NA	27.5	2.8	NA	25
1,1-Dichloroethene (ug/L)	7	NA	284	280	NA	7
1,1-Dichloropropene (ug/L)	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene (ug/L)	NA	NA	NA	7	NA	7
1,2,3-Trichloropropane (ug/L)	NA	NA	0.0084	0.00075	NA	0.0084
1,2,4-Trichlorobenzene (ug/L)	70	NA	3.98 *	1.2	NA	70
1,2,4-Trimethylbenzene (ug/L)	NA	NA	NA	56	NA	56
1,2-Dibromo-3-chloropropane (ug/L)	NA	NA	0.0033	0.00033	NA	0.0033
1,2-Dibromoethane (ug/L)	0.05	NA	0.075	0.0075	NA	0.05
1,2-Dichlorobenzene (ug/L)	600	NA	302.5	300	NA	600
1,2-Dichloroethane (ug/L)	5	NA	1.71	0.17	NA	5
1,2-Dichloropropane (ug/L)	5	NA	4.38	0.85	NA	5
1,3,5-Trimethylbenzene (ug/L)	NA	NA	NA	60	NA	60
1,3-Dichlorobenzene (ug/L)	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane (ug/L)	NA	NA	NA	370	NA	370
1,4-Dichlorobenzene (ug/L)	75	NA	4.82	0.48	NA	75
2,2-Dichloropropane (ug/L)	NA	NA	NA	NA	NA	NA
2-Butanone (ug/L)	NA	NA	5,565	5,600	NA	5,565
2-Chlorotoluene (ug/L)	NA	NA	233	240	NA	233
2-Hexanone (ug/L)	NA	NA	NA	38	NA	38
4-Chlorotoluene (ug/L)	NA	NA	NA	250	NA	250
4-Methyl-2-Pentanone (ug/L)	NA	NA	1,243	6,300	NA	1,243
Acetone (ug/L)	NA	NA	14,064	18,000	NA	14,064
Benzene (ug/L)	5	NA	4.55	0.46	NA	5
Bromobenzene (ug/L)	NA	NA	NA	62	NA	62
Bromodichloromethane (ug/L)	NA	NA	1.34	0.13	NA	1.34
Bromoform (ug/L)	NA	NA	32.9	3.3	NA	32.9
Bromomethane (ug/L)	NA	NA	7.54	7.5	NA	7.54
Carbon Disulfide (ug/L)	NA	NA	810	810	NA	810
Carbon tetrachloride (ug/L)	5	NA	4.55	0.46	NA	5
Chlorobenzene (ug/L)	NA	NA	77.6	78	NA	77.6
Chloroethane (ug/L)	NA	NA	20,857	8300	NA	20,857
Chloroform (ug/L)	100	NA	2.29	0.22	NA	100
Chloromethane (ug/L)	NA	NA	20.3	190	NA	20.32
cis-1,2-Dichloroethene (ug/L)	70	NA	36.5	25	NA	70
cis-1,3-dichloropropene (ug/L)	NA	NA	4.71	0.47	NA	4.71
Dibromochloromethane (ug/L)	NA	NA	1.68	0.87	NA	1.68
Dibromomethane (ug/L)	NA	NA	8	8.3	NA	8
Dichlorodifluoromethane (ug/L)	NA	NA	197	200	NA	197
Ethylbenzene (ug/L)	700	NA	14.99	1.5	NA	700
Hexachlorobutadiene (ug/L)	NA	NA	1.39	0.14	NA	1.39
Isopropylbenzene (ug/L)	NA	NA	446.8	450	NA	447
Methylene Chloride (ug/L)	5	NA	106.5 *	11	NA	5
Methyl Tert-Butyl Ether (ug/L)	NA	NA	143	14	NA	143
n-Butylbenzene (ug/L)	NA	NA	NA	1,000	NA	1,000
n-Propylbenzene (ug/L)	NA	NA	NA	660	NA	660
p-Isopropyltoluene (ug/L)	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (ug/L)	NA	NA	NA	2,000	NA	2,000
Styrene (ug/L)	100	NA	1,205	1,200	NA	100
tert-Butylbenzene (ug/L)	NA	NA	NA	690	NA	690
Tetrachloroethene (ug/L)	5	NA	40.3 *	11	NA	5
Toluene (ug/L)	1,000	NA	1,093	1,100	NA	1,000
trans-1,2-Dichloroethene (ug/L)	100	NA	67.9	68	NA	100
trans-1,3-Dichloropropene (ug/L)	NA	NA	4.71	0.47	NA	4.71
Trichloroethene (ug/L)	5	NA	2.59	0.49	NA	5
Trichlorofluoromethane (ug/L)	NA	NA	1,137	5,200	NA	1,137
Vinyl Chloride (ug/L)	2	NA	0.324	0.019	NA	2
Xylenes, Total (ug/L)	620	NA	193	190	NA	620

TABLE 3-2. CLEANUP LEVELS
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Semi-volatile Organic Compounds						
1,2,4-Trichlorobenzene (ug/L)	70	NA	3.98 *	1.2	NA	70
1,2-Dichlorobenzene (ug/L)	600	NA	302.5	300	NA	600
1,3-Dichlorobenzene (ug/L)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene (ug/L)	75	NA	4.82	0.48	NA	75
1,4-Dioxane (ug/L)	NA	NA	4.59	0.46	NA	4.59
1-Methylnaphthalene (ug/L)	NA	NA	11.38	1.1	NA	11.38
2,4,5-Trichlorophenol (ug/L)	NA	NA	1,166	1,200	NA	1,166
2,4,6-Trichlorophenol (ug/L)	NA	NA	11.9 *	4.1	NA	11.9 *
2,4-Dichlorophenol (ug/L)	NA	NA	45.3	46	NA	45.3
2,4-Dimethylphenol (ug/L)	NA	NA	354	360	NA	354
2,4-Dinitrophenol (ug/L)	NA	NA	38.7	39	NA	38.7
2,4-Dinitro Toluene (ug/L)	NA	NA	2.37	0.24	NA	2.37
2,6-Dinitro Toluene (ug/L)	NA	NA	0.485	0.049	NA	0.485
2-Chloronaphthalene (ug/L)	NA	NA	733	750	NA	733
2-Chlorophenol (ug/L)	NA	NA	91	91	NA	91
2-Methylnaphthalene (ug/L)	NA	NA	35.1	36	NA	35.1
2-Methylphenol (ug/L)	NA	NA	NA	930	NA	930
2-Nitroaniline (ug/L)	NA	NA	NA	190	NA	190
2-Nitrophenol (ug/L)	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine (ug/L)	NA	NA	1.25	0.13	NA	1.25
3,4-Methylphenol (ug/L)	NA	NA	NA	370	NA	370
3-Nitroaniline (ug/L)	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol (ug/L)	NA	NA	1.52	1.5	NA	1.52
4-Bromophenylphenylether (ug/L)	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol (ug/L)	NA	NA	NA	1400	NA	1400
4-Chloroaniline (ug/L)	NA	NA	NA	0.37	NA	0.37
4-Chlorophenylphenylether (ug/L)	NA	NA	NA	NA	NA	NA
4-Nitroaniline (ug/L)	NA	NA	NA	3.8	NA	3.8
4-Nitrophenol (ug/L)	NA	NA	NA	NA	NA	NA
Acenaphthene (ug/L)	NA	NA	535	530	NA	535
Acenaphthylene (ug/L)	NA	NA	NA	NA	NA	NA
Aniline (ug/L)	NA	NA	NA	13	NA	13
Anthracene (ug/L)	NA	NA	1,721	1800	NA	1,721
Azobenzene (ug/L)	NA	NA	NA	0.12	NA	0.12
Benzo(a)anthracene (ug/L)	NA	NA	0.12	0.03	NA	0.12
Benzo(a)pyrene (ug/L)	0.2	NA	0.251	0.025	NA	0.2
Benzo(b)fluoranthene (ug/L)	NA	NA	0.343	0.25	NA	0.34
Benzo(ghi)perylene (ug/L)	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene (ug/L)	NA	NA	3.43	2.5	NA	3.43
Benzoic Acid (ug/L)	NA	NA	NA	75000	NA	75,000
Benzyl Alcohol (ug/L)	NA	NA	NA	2000	NA	2,000
Bis(2chloroethoxy)methane (ug/L)	NA	NA	NA	59	NA	59
Bis(2-chloroethyl)ether (ug/L)	NA	NA	0.137	0.014	NA	0.137
Bis(2-chloroisopropyl)ether (ug/L)	NA	NA	9.81	NA	NA	9.81
Bis(2-ethylhexyl)phthalate (ug/L)	NA	NA	55.64	5.6	NA	55.64
Benzyl Butyl Phthalate (ug/L)	NA	NA	NA	16	NA	16
Carbazole (ug/L)	NA	NA	NA	NA	NA	NA
Chrysene (ug/L)	NA	NA	34.3	25	NA	34.3
Dibenz(a,h)anthracene (ug/L)	NA	NA	0.034	0.025	NA	0.034
Dibenzofuran (ug/L)	NA	NA	NA	7.9	NA	7.9
Diethylphthalate (ug/L)	NA	NA	14,801	NA	NA	14,801
Dimethyl Phthalate (ug/L)	NA	NA	612	NA	NA	612
Di-n-butyl phthalate (ug/L)	NA	NA	885	900	NA	885
Di-n-octylphthalate (ug/L)	NA	NA	NA	200	NA	200
Fluoranthene (ug/L)	NA	NA	802	800	NA	802
Fluorene (ug/L)	NA	NA	288	290	NA	288
Hexachloro Benzene (ug/L)	NA	NA	0.0976	0.01	NA	0.0976
Hexachlorobutadiene (ug/L)	NA	NA	NA	0.14	NA	0.14
Hexachlorocyclopentadiene (ug/L)	NA	NA	0.41	0.41	NA	0.41
Hexachloroethane (ug/L)	NA	NA	3.28	0.33	NA	3.28
Indeno(1,2,3-cd)pyrene (ug/L)	NA	NA	0.343	0.25	NA	0.343
Isophorone (ug/L)	NA	NA	781	78	NA	781
Naphthalene (ug/L)	30	NA	1.17	0.12	NA	30
Nitrobenzene (ug/L)	NA	NA	1.4	0.14	NA	1.4
N-Nitrosodimethylamine (ug/L)	NA	NA	0.0049	0.00011	NA	0.0049
N-Nitrosodi-n-propylamine (ug/L)	NA	NA	NA	0.011	NA	0.011
N-Nitrosodiphenylamine (ug/L)	NA	NA	122	12	NA	122
Pentachlorophenol (ug/L)	1	NA	0.413	0.041	NA	1
Phenanthrene (ug/L)	NA	NA	170	NA	NA	170
Phenol (ug/L)	NA	NA	5,761	5800	NA	5,761
Pyrene (ug/L)	NA	NA	117	120	NA	117
Pyridine (ug/L)	NA	NA	NA	20	NA	20
Benzdine (ug/L)	NA	NA	0.0011	0.00011	NA	0.0011
2,3,4,6-Tetrachlorophenol (ug/L)	NA	NA	NA	240	NA	240
2,3,5,6-Tetrachlorophenol (ug/L)	NA	NA	NA	NA	NA	NA
Dibenz(a,h)acridine (ug/L)	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene (ug/L)	NA	NA	NA	0.0001	NA	0.0001
1,2-Diphenylhydrazine (ug/L)	NA	NA	0.780	0.078	NA	0.780
Quinoline (ug/L)	NA	NA	NA	0.024	NA	0.024
Thiophenol (Benzenethiol) (ug/L)	NA	NA	NA	17	NA	17

TABLE 3-2. CLEANUP LEVELS
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Pesticides (ug/L)						
Aldrin (ug/L)	NA	NA	0.002	0.00092	NA	0.002
alpha-BHC (ug/L)	NA	NA	0.069	0.0072	NA	0.069
beta-BHC (ug/L)	NA	NA	0.243	0.025	NA	0.243
delta-BHC (ug/L)	NA	NA	NA	NA	NA	NA
Lindane (ug/L)	NA	NA	0.415	0.042	NA	0.415
Chlordane (ug/L)	NA	NA	0.448	3.6	NA	0.448
4,4'-DDD (ug/L)	NA	NA	0.317	0.032	NA	0.317
4,4'-DDE (ug/L)	NA	NA	0.462	0.046	NA	0.462
2,4-DDE (ug/L)	NA	NA	0.462	NA	NA	0.462
4,4'-DDT (ug/L)	NA	NA	2.29	0.23	NA	2.29
Dieldrin (ug/L)	NA	NA	0.018	0.0018	NA	0.018
Endosulfan I (ug/L)	NA	NA	98.7	100	NA	98.7
Endosulfan II (ug/L)	NA	NA	98.7	100	NA	98.7
Endosulfan Sulfate (ug/L)	NA	NA	NA	110	NA	110
Endrin (ug/L)	NA	NA	2.23	2.3	NA	2.23
Endrin Aldehyde (ug/L)	NA	NA	NA	NA	NA	NA
Heptachlor (ug/L)	NA	NA	0.022	0.0014	NA	0.0221
Heptachlor Epoxide (ug/L)	NA	NA	NA	0.0014	NA	0.0014
Methoxychlor (ug/L)	NA	NA	NA	37	NA	37
Toxaphene (ug/L)	NA	NA	0.158	0.071	NA	0.158
Total Metals						
Aluminum, Total (ug/L)	NA	NA	19,914	20000	NA	19,914
Antimony, Total (ug/L)	6	6	7.26	7.8	NA	6
Arsenic, Total (ug/L)	10	10	0.855	0.052	NA	10
Barium, Total (ug/L)	2,000	2,000	3,277	3,800	NA	2,000
Beryllium, Total (ug/L)	4	4	12.4	25	NA	4
Boron, Total (ug/L)	NA	NA	3,949	4000	NA	3,949
Cadmium, Total (ug/L)	5	5	6.24	1.8	NA	5
Calcium, Total (ug/L)	NA	NA	NA	NA	NA	NA
Chromium, Total (ug/L)	50	100	5.702	NA	NA	50
Cobalt, Total (ug/L)	NA	NA	5.98	6	NA	5.98
Copper, Total (ug/L)	NA	NA	790	800	NA	790
Iron, Total (ug/L)	NA	NA	13,822	14000	NA	13,822
Lead, Total (ug/L)	15	NA	NA	15	NA	15
Magnesium, Total (ug/L)	NA	NA	NA	NA	NA	NA
Manganese, Total (ug/L)	NA	NA	2,017	430	NA	2,017
Mercury, Total (ug/L)	2	2	0.63	0.63	NA	2
Molybdenum, Total (ug/L)	NA	NA	98.7	100	NA	98.7
Nickel, Total (ug/L)	NA	NA	372	NA	NA	372
Potassium, Total (ug/L)	NA	NA	NA	NA	NA	NA
Selenium, Total (ug/L)	50	50	98.7	100	NA	50
Silver, Total (ug/L)	50	NA	81.2	94	NA	50
Sodium, Total (ug/L)	NA	NA	NA	NA	NA	NA
Thallium, Total (ug/L)	2	2	0.20	0.20	NA	2
Uranium, Total (ug/L)	30	NA	59.2	4	NA	30
Vanadium, Total (ug/L)	NA	NA	63.1	86	NA	63.1
Zinc, Total (ug/L)	NA	NA	5,960	6000	NA	5,960
Dissolved Metals						
Aluminum, Dissolved (ug/L)	NA	NA	19,914	NA	NA	19,914
Antimony, Dissolved (ug/L)	NA	6	7.26	NA	NA	6
Arsenic, Dissolved (ug/L)	NA	10	0.855	NA	NA	10
Barium, Dissolved (ug/L)	NA	2,000	3,277	NA	NA	2,000
Beryllium, Dissolved (ug/L)	NA	4	12.4	NA	NA	4
Boron, Dissolved (ug/L)	NA	NA	3,949	NA	NA	3,949
Cadmium, Dissolved (ug/L)	NA	5	6.24	NA	NA	5
Calcium, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Chromium, Dissolved (ug/L)	NA	100	NA	NA	NA	100
Cobalt, Dissolved (ug/L)	NA	NA	5.98	NA	NA	5.98
Copper, Dissolved (ug/L)	NA	NA	790	NA	NA	790
Iron, Dissolved (ug/L)	NA	NA	13,822	NA	NA	13,822
Lead, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Magnesium, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Manganese, Dissolved (ug/L)	NA	NA	2,017	NA	NA	2,017
Mercury, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	NA	NA	98.7	NA	NA	98.7
Nickel, Dissolved (ug/L)	NA	NA	372	NA	NA	372
Potassium, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Selenium, Dissolved (ug/L)	NA	50	98.7	NA	NA	50
Silver, Dissolved (ug/L)	NA	NA	81.2	NA	NA	81.2
Sodium, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Thallium, Dissolved (ug/L)	NA	2	0.20	NA	NA	2
Uranium, Dissolved (ug/L)	NA	NA	NA	NA	NA	NA
Vanadium, Dissolved (ug/L)	NA	NA	63.1	NA	NA	63.1
Zinc, Dissolved (ug/L)	NA	NA	5,960	NA	NA	5,960

TABLE 3-2. CLEANUP LEVELS
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

General Chemistry						
Biochemical Oxygen Demand (ug/L)	30,000	NA	NA	NA	NA	30,000
Bromide (ug/L)	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (ug/L)	125,000	NA	NA	NA	NA	125,000
Chloride (ug/L)	250,000	NA	NA	NA	NA	250,000
Conductivity (umhos/cm)	NA	NA	NA	NA	NA	NA
Cyanide, Total (ug/L)	NA	NA	1.46	1.5	NA	1.46
Fluoride, Total (ug/L)	1,600	4,000	1,185	800	NA	1,600
Nitrate & Nitrite (ug/L)	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10,000	10,000	31,593	32,000	NA	10,000
Nitrogen, Nitrate & Nitrite (ug/L)	NA	10,000	NA	NA	NA	10,000
Nitrogen, Nitrite (ug/L)	1,000	1,000	1,975	2,000	NA	1,000
Ortho-Phosphate (ug/L)	NA	NA	NA	NA	NA	NA
Ortho-Phosphorus (ug/L)	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	600,000	NA	NA	NA	NA	600,000
Diesel Range Organics (ug/L)	NA	NA	NA	NA	16.7	16.7
Gasoline Range Organics (ug/L)	NA	NA	NA	NA	10.1	10.1
Motor Oil (ug/L)	NA	NA	NA	NA	85.8	85.8
Oil Range Organics (ug/L)	NA	NA	NA	NA	85.8	85.8
Total Dissolved Solids (ug/L)	500	NA	NA	NA	NA	500
Solids, Total Suspended (ug/L)	NA	NA	NA	NA	NA	NA
Soluble Salt (ug/L)	NA	NA	NA	NA	NA	NA
Coliform, E-Coli (MPN/100ml)	500	NA	NA	NA	NA	500
E-Coli (MPN/100ml)	500	NA	NA	NA	NA	500
pH (Std Units)	6.6 – 8.6	NA	NA	NA	NA	6.6 – 8.6
Resistivity (Mohm/cm)	NA	NA	NA	NA	NA	NA
Temperature (oC)	NA	NA	NA	NA	NA	NA
PFAS						
Perfluorobutanesulfonate (ng/L)	NA	NA	6.016	6	NA	6.016
Perfluorobutanesulfonic acid (ng/L)	NA	NA	6.016	6	NA	6.016
Perfluorohexanesulfonate (ng/L)	NA	NA	0.401	0.39	NA	0.401
Perfluorohexanesulfonic acid (ng/L)	NA	NA	0.401	0.39	NA	0.401
Perfluorononanoate (ng/L)	NA	NA	0.060	0.059	NA	0.060
Perfluorononanoic acid (ng/L)	NA	NA	0.060	0.059	NA	0.060
Perfluorooctanesulfonate (ng/L)	NA	NA	0.060	0.04	NA	0.060
Perfluorooctanesulfonic acid (ng/L)	NA	NA	0.060	0.04	NA	0.060
Perfluorooctanoate (ng/L)	NA	NA	11.128	0.06	NA	11.128
Perfluorooctanoic acid (ng/L)	NA	NA	11.128	0.06	NA	11.128
Potassium perfluorobutanesulfonate (ng/L)	NA	NA	6.016	6	NA	6.016
Potassium perfluorooctanesulfonate (ng/L)	NA	NA	0.060	0.4	NA	0.060

Mohm/cm - Megaohm per centimeter
 MPN/100 mL - Most probable number per 100 milliliters
 NA - Not applicable
 ng/L - Nanograms per liter
 oC - Degrees Celsius
 PFAS - Per- and polyfluoroalkyl substances
 std - Standard
 ug/L - Micrograms per liter
 umhos/cm - Microhoms per centimeter

Notes:

*Non-cancer tap water values were less than the cancer tap water values; the smaller of the two standards was used.
 *NMED GW Cleanup Levels - New Mexico Environment Department Groundwater Cleanup Levels, New Mexico Administrative Code 20.6.2.2101 and 3103
 *40 CFR 141.62 - Code of Federal Regulations, Chapter 40, Section 141.62 Maximum Contaminant Levels
 *NMED Tap Water - New Mexico Environment Department, Risk Assessment Guidance, Table A-1, Tap Water, November 2022
 *USEPA RSL Tap Water HQ 1.0 - United States Environmental Protection Agency Regional Screening Levels, Hazardous Quotient 1.0, November 2022
 *NMED TPH Levels - New Mexico Environment Department, Total Petroleum Hydrocarbons Screening Levels, Risk Assessment Guidance for Investigations and Remediation, Table 6-4, November 2022
 *Total PFAS concentration exceeded the Health Advisory provided by USEPA in the "Drinking Water Health Advisories for PFOA and PFOS" available at: <https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos>

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
Alluvial/Fluvial Upper Sand Aquifer											
BW-1A	9/13/2017	ND	Dry	NA	Dry	6883.17	6885.12	1.95	44.11	30.0	35.0
BW-1A	8/15/2018	ND	Dry	NA	Dry	6883.17	6885.12	1.95	40.66	30.0	35.0
BW-1A	8/14/2019	ND	Dry	NA	Dry	6883.17	6885.12	1.95	40.66	30.0	35.0
BW-1A	9/14/2020	ND	Dry	NA	Dry	6883.17	6885.12	1.95	41.75	30.0	35.0
BW-1A	9/28/2021	ND	Dry	NA	Dry	6883.17	6885.12	1.95	41.75	30.0	35.0
BW-1A	9/2/2022	ND	Dry	NA	Dry	6883.17	6885.12	1.95	41.75	30.0	35.0
BW-2A	9/13/2017	ND	29.63	NA	6842.25	6871.88	6874.69	2.81	64.76	55.0	65.0
BW-2A	8/15/2018	ND	29.53	NA	6842.35	6871.88	6874.69	2.81	64.76	55.0	65.0
BW-2A	8/14/2019	ND	29.45	NA	6842.43	6871.88	6874.69	2.81	64.76	55.0	65.0
BW-2A	9/14/2020	ND	30.12	NA	6841.76	6871.88	6874.69	2.81	64.40	55.0	65.0
BW-2A	9/28/2021	ND	30.04	NA	6841.84	6871.88	6874.69	2.81	64.40	55.0	65.0
BW-2A	9/2/2022	30.94	31.04	0.10	6840.84	6871.88	6874.69	2.81	64.40	55.0	65.0
BW-3A	9/13/2017	ND	Dry	NA	Dry	6875.94	6878.39	2.45	49.90	39.5	49.5
BW-3A	8/15/2018	ND	Dry	NA	Dry	6875.94	6878.39	2.45	49.93	39.5	49.5
BW-3A	8/14/2019	ND	Dry	NA	Dry	6875.94	6878.39	2.45	49.93	39.5	49.5
BW-3A	9/14/2020	ND	Dry	NA	Dry	6875.94	6878.39	2.45	50.85	39.5	49.5
BW-3A	9/28/2021	ND	Dry	NA	Dry	6875.94	6878.39	2.45	50.85	39.5	49.5
BW-3A	9/2/2022	ND	Dry	NA	Dry	6875.94	6878.39	2.45	50.25	39.5	49.5
BW-4A	9/14/2020	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-4A	12/7/2020	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-4A	2/27/2021	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-4A	6/3/2021	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-4A	9/28/2021	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-4A	9/2/2022	ND	Dry	NA	Dry	6870.67	6873.18	2.92	35.98	21.0	36.0
BW-5A	9/14/2020	ND	Dry	NA	Dry	6874.39	6877.00	2.88	20.52	10.0	20.0
BW-5A	12/7/2020	ND	20.39	NA	6853.73	6874.39	6877.00	2.88	20.52	10.0	20.0
BW-5A	2/27/2021	ND	20.35	NA	6853.77	6874.39	6877.00	2.88	20.45	10.0	20.0
BW-5A	6/3/2021	ND	Dry	NA	Dry	6874.39	6877.00	2.88	20.45	10.0	20.0
BW-5A	9/9/2021	ND	Dry	NA	Dry	6874.39	6877.00	2.88	20.45	10.0	20.0
BW-5A	9/1/2022	ND	Dry	NA	Dry	6874.39	6877.00	2.88	20.45	10.0	20.0
Chinle/Alluvium Aquifer											
BW-1B	9/13/2017	ND	Dry	NA	Dry	6883.17	6885.78	2.61	73.68	54.6	64.6
BW-1B	8/15/2018	ND	Dry	NA	Dry	6883.17	6885.78	2.61	70.94	54.6	64.6
BW-1B	8/14/2019	ND	69.61	NA	6813.56	6883.17	6885.78	2.61	70.94	54.6	64.6
BW-1B	9/14/2020	ND	Dry	NA	Dry	6883.17	6885.78	2.61	70.77	54.6	64.6
BW-1B	9/28/2021	ND	Dry	NA	Dry	6883.17	6885.78	2.61	70.77	54.6	64.6
BW-1B	9/2/2022	ND	Dry	NA	Dry	6883.17	6885.78	2.61	70.59	54.6	64.6
BW-2B	9/13/2017	ND	25.44	NA	6846.22	6871.66	6874.50	2.84	89.42	80.0	90.0
BW-2B	8/15/2018	ND	25.41	NA	6846.25	6871.66	6874.50	2.84	89.42	80.0	90.0
BW-2B	8/14/2019	ND	25.61	NA	6846.05	6871.66	6874.50	2.84	89.42	80.0	90.0
BW-2B	9/14/2020	ND	25.95	NA	6845.71	6871.66	6874.50	2.84	89.42	80.0	90.0
BW-2B	9/28/2021	ND	25.52	NA	6846.14	6871.66	6874.50	2.84	89.42	80.0	90.0
BW-2B	9/27/2022	ND	25.44	NA	6846.22	6871.66	6874.50	2.84	50.56	80.0	90.0
BW-3B	9/13/2017	ND	30.95	NA	6845.21	6876.16	6878.59	2.43	66.97	63.0	73.0
BW-3B	8/15/2018	ND	30.92	NA	6845.24	6876.16	6878.59	2.43	66.97	63.0	73.0
BW-3B	8/14/2019	ND	30.88	NA	6845.28	6876.16	6878.59	2.43	66.97	63.0	73.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
BW-3B	9/14/2020	ND	31.81	NA	6844.35	6876.16	6878.59	2.43	67.11	63.0	73.0
BW-3B	9/28/2021	ND	31.20	NA	6844.96	6876.16	6878.59	2.43	67.11	63.0	73.0
BW-3B	9/27/2022	ND	31.17	NA	6844.99	6876.16	6878.59	2.43	67.27	63.0	73.0
BW-4B	9/14/2020	ND	37.07	NA	6833.37	6870.62	6873.23	2.79	60.71	41.0	61.0
BW-4B	12/7/2020	ND	33.07	NA	6837.37	6870.62	6873.23	2.79	60.71	41.0	61.0
BW-4B	2/27/2021	ND	44.29	NA	6826.15	6870.62	6873.23	2.79	60.71	41.0	61.0
BW-4B	6/2/2021	ND	42.79	NA	6827.65	6870.62	6873.23	2.79	60.71	41.0	61.0
BW-4B	9/28/2021	ND	39.72	NA	6830.72	6870.62	6873.23	2.79	60.71	41.0	61.0
BW-4B	9/2/2022	ND	33.11	NA	6837.33	6870.62	6873.23	2.79	48.11	41.0	61.0
BW-4B	12/22/2022	ND	45.06	NA	6825.38	6870.62	6873.23	2.79	48.11	41.0	61.0
BW-5B	9/14/2020	ND	8.07	NA	6866.21	6874.32	6876.82	2.54	58.91	48.0	58.0
BW-5B	12/7/2020	ND	7.99	NA	6866.29	6874.32	6876.82	2.54	58.91	48.0	58.0
BW-5B	2/27/2021	ND	6.87	NA	6867.41	6874.32	6876.82	2.54	58.91	48.0	58.0
BW-5B	6/2/2021	ND	7.96	NA	6866.32	6874.32	6876.82	2.54	58.91	48.0	58.0
BW-5B	9/9/2021	ND	8.46	NA	6865.82	6874.32	6876.82	2.54	58.91	48.0	58.0
BW-5B	3/1/2022	ND	7.56	NA	6866.72	6874.32	6876.82	2.54	51.81	48.0	58.0
BW-5B	6/1/2022	ND	7.56	NA	6866.72	6874.32	6876.82	2.54	51.81	48.0	58.0
BW-5B	9/2/2022	ND	7.70	NA	6866.58	6874.32	6876.82	2.54	51.81	48.0	58.0
BW-5B	12/11/2022	ND	7.76	NA	6866.52	6874.32	6876.82	2.54	51.81	48.0	58.0
BW-5B	12/22/2022	ND	7.61	NA	6866.67	6874.32	6876.82	2.54	51.81	48.0	58.0
GWM-1	4/26/2021	19.75	20.59	0.84	6889.63	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	5/20/2021	19.27	20.53	1.26	6889.69	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	6/2/2021	18.87	20.28	1.41	6889.94	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	9/9/2021	18.85	20.08	1.23	6890.14	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	12/3/2021	18.50	19.77	1.27	6890.45	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	1/10/2022	18.54	20.73	2.19	6889.49	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	2/28/2022	18.54	20.74	2.20	6889.48	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	3/1/2022	18.45	19.71	1.26	6890.51	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	4/27/2022	18.72	20.63	1.91	6889.59	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	5/5/2022	18.68	20.72	2.04	6889.50	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	6/1/2022	18.64	20.81	2.17	6889.41	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	7/7/2022	19.01	21.23	2.22	6888.99	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	8/9/2022	18.97	21.26	2.29	6888.96	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	9/5/2022	18.51	20.59	2.08	6889.63	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	10/5/2022	18.66	20.66	2.00	6889.56	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	11/2/2022	18.72	20.73	2.01	6889.49	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-1	12/6/2022	18.62	20.69	2.07	6889.53	6910.22	6912.61	2.39	24.01	17.5	23.5
GWM-2	4/26/2021	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	5/20/2021	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	6/3/2021	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	9/9/2021	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	12/2/2021	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	1/10/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	2/28/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	3/1/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	4/27/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	5/5/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	6/1/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
GWM-2	7/7/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	8/9/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	9/5/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	10/5/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	11/2/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-2	12/6/2022	ND	Dry	NA	Dry	6910.32	6913.09	2.77	15.31	3.2	16.2
GWM-3	4/26/2021	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	5/20/2021	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	6/3/2021	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	9/9/2021	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	12/2/2021	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	1/10/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	2/28/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	3/1/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	4/27/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	5/5/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	6/1/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	7/7/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	8/9/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	9/5/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	10/5/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	11/2/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
GWM-3	12/6/2022	ND	Dry	NA	Dry	6907.35	6910.25	2.90	16.25	3.0	5.0
KA-3	4/26/2021	ND	10.59	NA	6902.70	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	5/20/2021	ND	11.80	NA	6901.49	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	6/3/2021	ND	11.17	NA	6902.12	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	9/8/2021	ND	10.08	NA	6903.21	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	12/13/2021	ND	10.33	NA	6902.96	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	1/10/2022	ND	10.21	NA	6903.08	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	2/28/2022	ND	10.18	NA	6903.11	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	3/1/2022	ND	10.30	NA	6902.99	6913.29	6912.52	-0.77	32.16	15.0	25.0
KA-3	4/27/2022	ND	10.86	NA	6902.43	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	5/5/2022	ND	10.90	NA	6902.39	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	6/2/2022	ND	11.72	NA	6901.57	6913.29	6912.52	-0.77	32.42	15.0	25.0
KA-3	7/7/2022	ND	11.45	NA	6901.84	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	8/9/2022	ND	11.32	NA	6901.97	6913.29	6912.52	-0.77	23.97	15.0	25.0
KA-3	9/2/2022	ND	11.57	NA	6901.72	6913.29	6912.52	-0.77	32.37	15.0	25.0
KA-3	10/5/2022	ND	11.80	NA	6901.49	6913.29	6912.52	-0.77	32.37	15.0	25.0
KA-3	11/2/2022	ND	11.72	NA	6901.57	6913.29	6912.52	-0.77	32.37	15.0	25.0
KA-3	12/7/2022	ND	11.89	NA	6901.40	6913.29	6912.52	-0.77	32.42	15.0	25.0
MKTF-01R	8/31/2021	ND	3.60	NA	NA	6921.82	NA	-0.20	NA	3.0	18.0
MKTF-01R	12/3/2021	ND	3.55	NA	6918.27	6921.82	6921.62	-0.20	NA	3.0	18.0
MKTF-01R	1/28/2022	ND	3.50	NA	6918.32	6921.82	6921.62	-0.20	18.30	3.0	18.0
MKTF-01R	2/28/2022	ND	3.60	NA	6918.22	6921.82	6921.62	-0.20	18.30	3.0	18.0
MKTF-01R	3/1/2022	ND	3.56	NA	6918.26	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	4/27/2022	ND	3.50	NA	6918.32	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	5/5/2022	ND	3.49	NA	6918.33	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	6/2/2022	3.50	3.53	0.03	6918.29	6921.82	6921.62	-0.20	18.31	3.0	18.0

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WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-01R	7/6/2022	3.80	3.87	0.07	6917.95	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	8/8/2022	3.62	3.65	0.03	6918.17	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	9/1/2022	3.62	3.65	0.03	6918.17	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	10/3/2022	3.65	3.68	0.03	6918.14	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	11/2/2022	3.67	3.71	0.04	6918.11	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-01R	12/6/2022	3.69	3.75	0.06	6918.07	6921.82	6921.62	-0.20	18.31	3.0	18.0
MKTF-02R	8/31/2021	ND	13.65	NA	NA	6920.46	NA	2.45	NA	3.0	18.0
MKTF-02R	12/15/2021	ND	7.73	NA	6912.75	6920.46	6922.93	2.45	NA	3.0	18.0
MKTF-02R	1/10/2022	ND	7.70	NA	6912.78	6920.46	6922.93	2.45	19.04	3.0	18.0
MKTF-02R	2/28/2022	ND	7.65	NA	6912.83	6920.46	6922.93	2.45	19.04	3.0	18.0
MKTF-02R	3/1/2022	ND	7.75	NA	6912.73	6920.46	6922.93	2.45	19.04	3.0	18.0
MKTF-02R	4/27/2022	ND	7.77	NA	6912.71	6920.46	6922.93	2.45	19.04	3.0	18.0
MKTF-02R	5/5/2022	ND	7.78	NA	6912.70	6920.46	6922.93	2.45	19.04	3.0	18.0
MKTF-02R	6/2/2022	7.72	7.74	0.02	6912.74	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	7/6/2022	7.53	7.56	0.03	6912.92	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	8/8/2022	7.65	7.68	0.03	6912.80	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	9/1/2022	7.66	7.68	0.02	6912.80	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	10/3/2022	7.67	7.69	0.02	6912.79	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	11/2/2022	7.65	7.68	0.03	6912.80	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-02R	12/6/2022	7.53	7.58	0.05	6912.90	6920.46	6922.93	2.45	19.05	3.0	18.0
MKTF-03	4/26/2021	7.15	7.95	0.80	6923.78	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	5/20/2021	7.32	8.41	1.09	6923.32	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	6/1/2021	7.37	8.50	1.13	6923.23	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	9/9/2021	7.37	8.50	1.13	6923.23	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	12/3/2021	7.71	8.97	1.26	6922.76	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	1/10/2022	7.04	8.35	1.31	6923.38	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	2/28/2022	7.79	9.04	1.25	6922.69	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	3/2/2022	7.74	8.94	1.20	6922.79	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	4/27/2022	7.74	8.94	1.20	6922.79	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	5/5/2022	7.72	8.89	1.17	6922.84	6931.73	6931.69	-0.04	18.66	3.0	18.0
MKTF-03	6/2/2022	7.67	7.82	0.15	6923.91	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	7/6/2022	8.07	8.24	0.17	6923.49	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	8/8/2022	7.64	7.81	0.17	6923.92	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	9/1/2022	7.72	7.86	0.14	6923.87	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	10/3/2022	7.45	10.67	3.22	6921.06	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	11/2/2022	7.46	10.69	3.23	6921.04	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-03	12/9/2022	8.06	10.51	2.45	6921.22	6931.73	6931.69	-0.04	18.68	3.0	18.0
MKTF-04R	8/30/2021	ND	10.13	NA	NA	6938.49	NA	-0.53	NA	4.0	19.0
MKTF-04R	12/3/2021	ND	10.18	NA	6928.31	6938.49	6937.96	-0.53	NA	4.0	19.0
MKTF-04R	1/10/2022	ND	10.23	NA	6928.26	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	2/28/2022	ND	10.13	NA	6928.36	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	3/2/2022	ND	10.24	NA	6928.25	6938.49	6937.96	-0.53	19.75	4.0	19.0
MKTF-04R	4/27/2022	ND	9.92	NA	6928.57	6938.49	6937.96	-0.53	19.75	4.0	19.0
MKTF-04R	5/5/2022	ND	10.15	NA	6928.34	6938.49	6937.96	-0.53	19.75	4.0	19.0
MKTF-04R	6/2/2022	10.17	10.18	0.01	6928.31	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	7/6/2022	10.33	10.36	0.03	6928.13	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	8/8/2022	10.56	10.58	0.02	6927.91	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	9/1/2022	10.14	10.16	0.02	6928.33	6938.49	6937.96	-0.53	19.73	4.0	19.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-04R	10/3/2022	10.25	10.28	0.03	6928.21	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	11/2/2022	10.23	10.26	0.03	6928.23	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-04R	12/6/2022	10.03	10.08	0.05	6928.41	6938.49	6937.96	-0.53	19.73	4.0	19.0
MKTF-05	4/26/2021	12.30	12.44	0.14	6927.05	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	5/20/2021	12.29	12.36	0.07	6927.13	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	6/1/2021	12.15	12.23	0.08	6927.26	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	9/7/2021	11.54	12.61	1.07	6926.88	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	12/3/2021	11.77	12.37	0.60	6927.12	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	1/10/2022	11.37	11.58	0.21	6927.91	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	2/28/2022	11.77	12.37	0.60	6927.12	6939.49	6942.22	2.73	15.04	4.0	14.0
MKTF-05	3/2/2022	11.71	12.35	0.64	6927.14	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	4/27/2022	12.63	12.71	0.08	6926.78	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	5/3/2022	12.67	12.72	0.05	6926.77	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	6/2/2022	13.05	13.13	0.08	6926.36	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	7/6/2022	11.95	12.10	0.15	6927.39	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	8/8/2022	11.15	12.63	1.48	6926.86	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	9/1/2022	11.64	13.33	1.69	6926.16	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	10/3/2022	11.64	12.90	1.26	6926.59	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	11/2/2022	11.67	12.87	1.20	6926.62	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-05	12/9/2022	12.50	13.03	0.53	6926.46	6939.49	6942.22	2.73	15.02	4.0	14.0
MKTF-06	4/26/2021	15.31	15.38	0.07	6928.86	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	5/20/2021	15.44	15.56	0.12	6928.68	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	6/1/2021	15.52	15.68	0.16	6928.56	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	9/7/2021	15.41	16.09	0.68	6928.15	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	12/3/2021	15.44	16.39	0.95	6927.85	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	1/10/2022	14.93	14.96	0.03	6929.28	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	2/28/2022	15.18	15.87	0.69	6928.37	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	3/2/2022	15.43	16.38	0.95	6927.86	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	4/27/2022	15.96	17.18	1.22	6927.06	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	5/3/2022	16.06	17.32	1.26	6926.92	6944.24	6946.81	2.57	21.28	10.0	20.0
MKTF-06	6/2/2022	16.23	17.53	1.30	6926.71	6944.24	6946.81	2.57	21.29	10.0	20.0
MKTF-06	7/6/2022	14.63	16.48	1.85	6927.76	6944.24	6946.81	2.57	21.29	10.0	20.0
MKTF-06	8/8/2022	14.87	16.69	1.82	6927.55	6944.24	6946.81	2.57	21.30	10.0	20.0
MKTF-06	9/1/2022	15.93	17.16	1.23	6927.08	6944.24	6946.81	2.57	21.30	10.0	20.0
MKTF-06	10/3/2022	15.97	17.24	1.27	6927.00	6944.24	6946.81	2.57	21.30	10.0	20.0
MKTF-06	11/2/2022	15.99	17.26	1.27	6926.98	6944.24	6946.81	2.57	21.30	10.0	20.0
MKTF-06	12/6/2022	14.98	16.31	1.33	6927.93	6944.24	6946.81	2.57	21.30	10.0	20.0
MKTF-07	4/26/2021	10.73	10.98	0.25	6933.42	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	5/20/2021	10.90	11.03	0.13	6933.37	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	6/1/2021	10.74	10.85	0.11	6933.55	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	9/7/2021	10.48	10.90	0.42	6933.50	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	12/3/2021	11.11	11.25	0.14	6933.15	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	1/10/2022	11.69	11.73	0.04	6932.67	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	2/28/2022	ND	11.33	NA	6933.07	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	3/2/2022	11.14	11.22	0.08	6933.18	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	4/27/2022	12.05	12.08	0.03	6932.32	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	5/3/2022	12.12	12.15	0.03	6932.25	6944.40	6947.18	2.78	15.08	4.0	14.0
MKTF-07	6/2/2022	12.34	12.37	0.03	6932.03	6944.40	6947.18	2.78	15.07	4.0	14.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-07	7/6/2022	12.30	12.33	0.03	6932.07	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	8/8/2022	12.02	12.07	0.05	6932.33	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	9/1/2022	11.98	12.10	0.12	6932.30	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	10/3/2022	11.92	12.47	0.55	6931.93	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	11/2/2022	11.97	12.43	0.46	6931.97	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-07	12/9/2022	12.28	12.63	0.35	6931.77	6944.40	6947.18	2.78	15.07	4.0	14.0
MKTF-08	4/26/2021	11.57	11.68	0.11	6932.34	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	5/20/2021	11.56	11.64	0.08	6932.38	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	6/1/2021	11.64	11.72	0.08	6932.30	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	9/7/2021	11.70	11.92	0.22	6932.10	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	12/3/2021	11.96	12.30	0.34	6931.72	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	1/10/2022	12.13	12.28	0.15	6931.74	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	2/28/2022	11.68	11.73	0.05	6932.29	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	3/2/2022	11.93	12.26	0.33	6931.76	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	4/27/2022	12.64	12.93	0.29	6931.09	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	5/3/2022	12.71	13.09	0.38	6930.93	6944.02	6947.09	3.07	18.93	8.0	18.0
MKTF-08	6/2/2022	12.83	13.61	0.78	6930.41	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	7/6/2022	12.69	13.08	0.39	6930.94	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	8/8/2022	12.40	13.08	0.68	6930.94	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	9/1/2022	12.29	13.71	1.42	6930.31	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	10/3/2022	11.87	15.31	3.44	6928.71	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	11/2/2022	11.88	15.31	3.43	6928.71	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-08	12/6/2022	12.24	15.24	3.00	6928.78	6944.02	6947.09	3.07	18.96	8.0	18.0
MKTF-09	4/26/2021	11.86	11.91	0.05	6931.66	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	5/20/2021	12.05	12.23	0.18	6931.34	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	6/1/2021	11.99	12.02	0.03	6931.55	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	9/7/2021	12.25	12.28	0.03	6931.29	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	12/3/2021	12.16	12.20	0.04	6931.37	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	1/10/2022	12.35	12.38	0.03	6931.19	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	2/28/2022	12.19	12.35	0.16	6931.22	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	3/2/2022	12.18	12.22	0.04	6931.35	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	4/27/2022	ND	13.12	NA	6930.45	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	5/5/2022	ND	13.08	NA	6930.49	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	6/2/2022	12.20	12.23	0.03	6931.34	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	7/6/2022	12.84	12.87	0.03	6930.70	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	8/8/2022	13.09	13.12	0.03	6930.45	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	9/1/2022	12.27	12.31	0.04	6931.26	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	10/3/2022	12.22	12.27	0.05	6931.30	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	11/2/2022	12.19	12.26	0.07	6931.31	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-09	12/6/2022	12.39	12.47	0.08	6931.10	6943.57	6946.50	2.93	19.77	9.0	19.0
MKTF-10	4/26/2021	ND	8.38	NA	6929.13	6937.51	6937.16	-0.35	16.85	7.0	17.0
MKTF-10	5/20/2021	ND	8.27	NA	6929.24	6937.51	6937.16	-0.35	16.85	7.0	17.0
MKTF-10	6/1/2021	ND	8.04	NA	6929.47	6937.51	6937.16	-0.35	16.85	7.0	17.0
MKTF-10	9/9/2021	ND	8.55	NA	6928.96	6937.51	6937.16	-0.35	16.85	7.0	17.0
MKTF-10	12/15/2021	ND	8.69	NA	6928.82	6937.51	6937.16	-0.35	16.85	7.0	17.0
MKTF-10	1/10/2022	ND	10.06	NA	6927.45	6937.51	6937.16	-0.35	16.95	7.0	17.0
MKTF-10	2/28/2022	ND	9.90	NA	6927.61	6937.51	6937.16	-0.35	16.95	7.0	17.0
MKTF-10	3/1/2022	ND	8.65	NA	6928.86	6937.51	6937.16	-0.35	16.96	7.0	17.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-10	4/27/2022	ND	9.22	NA	6928.29	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	5/5/2022	ND	9.80	NA	6927.71	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	6/2/2022	8.55	8.65	0.10	6928.86	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	7/6/2022	8.46	8.71	0.25	6928.80	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	8/8/2022	8.18	8.45	0.27	6929.06	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	9/1/2022	8.44	8.56	0.12	6928.95	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	10/3/2022	8.48	8.60	0.12	6928.91	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	11/2/2022	8.50	8.58	0.08	6928.93	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-10	12/6/2022	8.55	8.64	0.09	6928.87	6937.51	6937.16	-0.35	16.96	7.0	17.0
MKTF-11	4/26/2021	ND	7.97	NA	6923.64	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	5/20/2021	ND	7.94	NA	6923.67	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	6/1/2021	ND	7.83	NA	6923.78	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	9/9/2021	ND	8.86	NA	6922.75	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	12/15/2021	ND	8.69	NA	6922.92	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	1/10/2022	ND	8.79	NA	6922.82	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	2/28/2022	ND	8.71	NA	6922.90	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	3/2/2022	ND	8.11	NA	6923.50	6931.61	6931.34	-0.27	19.61	8.0	18.0
MKTF-11	4/27/2022	ND	8.55	NA	6923.06	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	5/5/2022	ND	8.71	NA	6922.90	6931.61	6931.34	-0.27	18.80	8.0	18.0
MKTF-11	6/2/2022	ND	9.07	NA	6922.54	6931.61	6931.34	-0.27	18.77	8.0	18.0
MKTF-11	7/6/2022	ND	8.80	NA	6922.81	6931.61	6931.34	-0.27	18.76	8.0	18.0
MKTF-11	8/8/2022	ND	9.23	NA	6922.38	6931.61	6931.34	-0.27	18.75	8.0	18.0
MKTF-11	9/1/2022	8.92	8.96	0.04	6922.65	6931.61	6931.34	-0.27	18.75	8.0	18.0
MKTF-11	10/3/2022	8.97	9.01	0.04	6922.60	6931.61	6931.34	-0.27	18.75	8.0	18.0
MKTF-11	11/2/2022	8.98	9.01	0.03	6922.60	6931.61	6931.34	-0.27	18.75	8.0	18.0
MKTF-11	12/6/2022	9.04	9.09	0.05	6922.52	6931.61	6931.34	-0.27	18.75	8.0	18.0
MKTF-12	4/26/2021	16.08	16.19	0.11	6923.51	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	5/20/2021	16.29	16.32	0.03	6923.38	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	5/20/2021	16.62	16.67	0.05	6923.03	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	9/9/2021	16.60	16.68	0.08	6923.02	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	12/3/2021	16.68	16.79	0.11	6922.91	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	1/10/2022	16.48	16.69	0.21	6923.01	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	2/28/2022	16.71	16.79	0.08	6922.91	6939.70	6942.11	2.41	23.44	12.0	22.0
MKTF-12	3/1/2022	16.71	16.78	0.07	6922.92	6939.70	6942.11	2.41	23.47	12.0	22.0
MKTF-12	4/27/2022	17.09	17.14	0.05	6922.56	6939.70	6942.11	2.41	23.47	12.0	22.0
MKTF-12	5/5/2022	16.92	17.00	0.08	6922.70	6939.70	6942.11	2.41	23.47	12.0	22.0
MKTF-12	6/2/2022	16.79	16.86	0.07	6922.84	6939.70	6942.11	2.41	23.49	12.0	22.0
MKTF-12	7/6/2022	14.40	14.48	0.08	6925.22	6939.70	6942.11	2.41	23.51	12.0	22.0
MKTF-12	8/8/2022	15.47	15.54	0.07	6924.16	6939.70	6942.11	2.41	23.53	12.0	22.0
MKTF-12	9/1/2022	17.02	17.09	0.07	6922.61	6939.70	6942.11	2.41	23.53	12.0	22.0
MKTF-12	10/3/2022	17.19	17.34	0.15	6922.36	6939.70	6942.11	2.41	23.53	12.0	22.0
MKTF-12	11/2/2022	17.22	17.35	0.13	6922.35	6939.70	6942.11	2.41	23.53	12.0	22.0
MKTF-12	12/6/2022	17.54	17.70	0.16	6922.00	6939.70	6942.11	2.41	23.53	12.0	22.0
MKTF-13	4/26/2021	10.74	14.82	4.08	6918.85	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	5/20/2021	10.60	15.19	4.59	6918.48	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	6/1/2021	10.42	14.16	3.74	6919.51	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	9/7/2021	11.49	15.09	3.60	6918.58	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	12/3/2021	11.96	14.31	2.35	6919.36	6933.67	6935.18	1.51	20.24	8.0	18.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-13	1/10/2022	9.32	13.27	3.95	6920.40	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	2/28/2022	9.29	13.24	3.95	6920.43	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	3/1/2022	11.93	14.27	2.34	6919.40	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	4/27/2022	12.46	13.53	1.07	6920.14	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	5/3/2022	12.53	13.56	1.03	6920.11	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	6/2/2022	12.28	13.64	1.36	6920.03	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	7/6/2022	12.61	14.15	1.54	6919.52	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	8/8/2022	12.11	13.86	1.75	6919.81	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	9/1/2022	12.09	13.60	1.51	6920.07	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	10/3/2022	11.87	13.52	1.65	6920.15	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	11/2/2022	11.89	13.49	1.60	6920.18	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-13	12/9/2022	13.37	14.19	0.82	6919.48	6933.67	6935.18	1.51	20.24	8.0	18.0
MKTF-14	4/26/2021	3.74	3.81	0.07	6921.84	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	5/20/2021	3.83	3.94	0.11	6921.71	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	6/1/2021	3.44	3.60	0.16	6922.05	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	9/7/2021	4.65	4.82	0.17	6920.83	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	12/3/2021	4.80	5.02	0.22	6920.63	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	1/10/2022	4.83	5.07	0.24	6920.58	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	2/28/2022	4.75	5.05	0.30	6920.60	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	3/1/2022	4.78	4.99	0.21	6920.66	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	4/27/2022	4.91	5.14	0.23	6920.51	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	5/2/2022	4.92	5.17	0.25	6920.48	6925.65	6928.02	2.37	15.18	4.0	14.0
MKTF-14	6/2/2022	4.88	5.39	0.51	6920.26	6925.65	6928.02	2.37	15.21	4.0	14.0
MKTF-14	7/6/2022	3.72	3.98	0.26	6921.67	6925.65	6928.02	2.37	15.22	4.0	14.0
MKTF-14	8/8/2022	4.60	4.61	0.01	6921.04	6925.65	6928.02	2.37	15.24	4.0	14.0
MKTF-14	9/1/2022	4.81	4.92	0.11	6920.73	6925.65	6928.02	2.37	15.24	4.0	14.0
MKTF-14	10/3/2022	4.61	4.77	0.16	6920.88	6925.65	6928.02	2.37	15.24	4.0	14.0
MKTF-14	11/2/2022	4.64	4.78	0.14	6920.87	6925.65	6928.02	2.37	15.24	4.0	14.0
MKTF-14	12/9/2022	5.04	5.18	0.14	6920.47	6925.65	6928.02	2.37	15.24	4.0	14.0
MKTF-15	4/26/2021	13.37	13.58	0.21	6930.16	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	5/20/2021	13.77	13.84	0.07	6929.90	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	6/1/2021	13.69	13.73	0.04	6930.01	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	9/7/2021	13.55	14.17	0.62	6929.57	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	12/3/2021	13.53	14.22	0.69	6929.52	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	1/10/2022	13.38	14.14	0.76	6929.60	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	2/28/2022	13.38	14.13	0.75	6929.61	6943.74	6943.48	-0.26	19.79	9.0	19.0
MKTF-15	3/2/2022	13.56	14.26	0.70	6929.48	6943.74	6943.48	-0.26	19.81	9.0	19.0
MKTF-15	4/27/2022	13.66	15.61	1.95	6928.13	6943.74	6943.48	-0.26	19.81	9.0	19.0
MKTF-15	5/5/2022	13.59	14.68	1.09	6929.06	6943.74	6943.48	-0.26	19.81	9.0	19.0
MKTF-15	6/2/2022	13.47	14.11	0.64	6929.63	6943.74	6943.48	-0.26	19.87	9.0	19.0
MKTF-15	7/6/2022	12.21	12.82	0.61	6930.92	6943.74	6943.48	-0.26	19.89	9.0	19.0
MKTF-15	8/8/2022	12.59	13.16	0.57	6930.58	6943.74	6943.48	-0.26	19.92	9.0	19.0
MKTF-15	9/1/2022	13.80	14.96	1.16	6928.78	6943.74	6943.48	-0.26	19.92	9.0	19.0
MKTF-15	10/3/2022	13.95	14.75	0.80	6928.99	6943.74	6943.48	-0.26	19.92	9.0	19.0
MKTF-15	11/2/2022	13.96	14.71	0.75	6929.03	6943.74	6943.48	-0.26	19.92	9.0	19.0
MKTF-15	12/6/2022	14.22	14.85	0.63	6928.89	6943.74	6943.48	-0.26	19.92	9.0	19.0
MKTF-16	5/20/2021	ND	9.82	NA	6941.18	6951.00	6950.58	-0.42	11.37	4.0	14.0
MKTF-16	6/1/2021	ND	9.70	NA	6941.30	6951.00	6950.58	-0.42	11.37	4.0	14.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-16	6/23/2021	ND	Dry	NA	Dry	6951.00	6950.58	-0.42	11.37	4.0	14.0
MKTF-16	9/8/2021	ND	9.12	NA	6941.88	6951.00	6950.58	-0.42	11.37	4.0	14.0
MKTF-16	12/21/2021	ND	8.87	NA	6942.13	6951.00	6950.58	-0.42	11.37	4.0	14.0
MKTF-16	1/10/2022	ND	8.82	NA	6942.18	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-16	2/28/2022	ND	9.05	NA	6941.95	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-16	3/2/2022	ND	8.84	NA	6942.16	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-16	4/27/2022	ND	10.24	NA	6940.76	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-16	5/5/2022	ND	9.06	NA	6941.94	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-16	6/1/2022	ND	8.25	NA	6942.75	6951.00	6950.58	-0.42	11.36	4.0	14.0
MKTF-16	7/6/2022	ND	8.29	NA	6942.71	6951.00	6950.58	-0.42	11.37	4.0	14.0
MKTF-16	8/8/2022	ND	8.46	NA	6942.54	6951.00	6950.58	-0.42	11.38	4.0	14.0
MKTF-16	9/2/2022	ND	8.22	NA	6942.78	6951.00	6950.58	-0.42	11.36	4.0	14.0
MKTF-16	10/3/2022	ND	8.28	NA	6942.72	6951.00	6950.58	-0.42	11.36	4.0	14.0
MKTF-16	11/2/2022	ND	8.26	NA	6942.74	6951.00	6950.58	-0.42	11.36	4.0	14.0
MKTF-16	12/6/2022	ND	10.74	NA	6940.26	6951.00	6950.58	-0.42	11.34	4.0	14.0
MKTF-17R	8/30/2021	ND	12.34	NA	NA	6950.61	NA	-0.41	NA	5.0	20.0
MKTF-17R	12/3/2021	ND	12.80	NA	6937.81	6950.61	6950.20	-0.41	NA	5.0	20.0
MKTF-17R	1/10/2022	ND	12.72	NA	6937.89	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	2/28/2022	ND	12.71	NA	6937.90	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	3/1/2022	ND	12.76	NA	6937.85	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	4/27/2022	ND	13.82	NA	6936.79	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	5/4/2022	13.39	13.86	0.47	6936.75	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	6/1/2022	13.64	13.84	0.20	6936.77	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	7/6/2022	13.65	13.88	0.23	6936.73	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	8/8/2022	13.42	13.59	0.17	6937.02	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	9/5/2022	13.34	13.54	0.20	6937.07	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	10/3/2022	13.03	13.18	0.15	6937.43	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	11/2/2022	13.03	13.20	0.17	6937.41	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-17R	12/6/2022	12.91	13.01	0.10	6937.60	6950.61	6950.20	-0.41	20.91	5.0	20.0
MKTF-18R	8/30/2021	ND	10.00	NA	NA	6955.29	NA	-0.42	NA	5.0	25.0
MKTF-18R	12/1/2021	ND	10.62	NA	6944.67	6955.29	6954.87	-0.42	NA	5.0	25.0
MKTF-18R	1/10/2022	ND	10.75	NA	6944.54	6955.29	6954.87	-0.42	25.92	5.0	25.0
MKTF-18R	2/28/2022	ND	10.75	NA	6944.54	6955.29	6954.87	-0.42	25.92	5.0	25.0
MKTF-18R	3/1/2022	ND	10.59	NA	6944.70	6955.29	6954.87	-0.42	25.92	5.0	25.0
MKTF-18R	4/27/2022	ND	11.20	NA	6944.09	6955.29	6954.87	-0.42	25.92	5.0	25.0
MKTF-18R	5/5/2022	ND	11.33	NA	6943.96	6955.29	6954.87	-0.42	25.92	5.0	25.0
MKTF-18R	6/1/2022	ND	11.55	NA	6943.74	6955.29	6954.87	-0.42	25.89	5.0	25.0
MKTF-18R	7/6/2022	ND	11.19	NA	6944.10	6955.29	6954.87	-0.42	25.88	5.0	25.0
MKTF-18R	8/8/2022	ND	11.76	NA	6943.53	6955.29	6954.87	-0.42	25.87	5.0	25.0
MKTF-18R	9/1/2022	ND	11.27	NA	6944.02	6955.29	6954.87	-0.42	25.89	5.0	25.0
MKTF-18R	10/3/2022	ND	11.34	NA	6943.95	6955.29	6954.87	-0.42	25.89	5.0	25.0
MKTF-18R	11/2/2022	ND	11.32	NA	6943.97	6955.29	6954.87	-0.42	25.89	5.0	25.0
MKTF-18R	12/5/2022	ND	11.12	NA	6944.17	6955.29	6954.87	-0.42	25.88	5.0	25.0
MKTF-19	4/26/2021	12.76	14.29	1.53	6930.60	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	5/20/2021	12.50	13.92	1.42	6930.97	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	6/1/2021	12.77	13.99	1.22	6930.90	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	9/8/2021	13.27	14.33	1.06	6930.56	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	12/3/2021	13.20	14.25	1.05	6930.64	6944.89	6944.67	-0.22	19.66	10.0	20.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-19	1/10/2022	13.33	13.39	0.06	6931.50	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	2/28/2022	13.32	14.54	1.22	6930.35	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	3/2/2022	13.22	14.32	1.10	6930.57	6944.89	6944.67	-0.22	19.68	10.0	20.0
MKTF-19	4/27/2022	13.96	15.05	1.09	6929.84	6944.89	6944.67	-0.22	19.68	10.0	20.0
MKTF-19	5/5/2022	13.53	14.55	1.02	6930.34	6944.89	6944.67	-0.22	19.68	10.0	20.0
MKTF-19	6/1/2022	13.18	14.10	0.92	6930.79	6944.89	6944.67	-0.22	19.67	10.0	20.0
MKTF-19	7/6/2022	12.63	13.22	0.59	6931.67	6944.89	6944.67	-0.22	19.67	10.0	20.0
MKTF-19	8/8/2022	12.27	13.44	1.17	6931.45	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	9/1/2022	13.25	14.22	0.97	6930.67	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	10/3/2022	13.93	16.28	2.35	6928.61	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	11/2/2022	13.92	16.26	2.34	6928.63	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-19	12/6/2022	15.34	15.66	0.32	6929.23	6944.89	6944.67	-0.22	19.66	10.0	20.0
MKTF-20	4/26/2021	9.25	9.54	0.29	6942.35	6951.89	6951.78	-0.11	9.72	1.0	9.8
MKTF-20	5/20/2021	9.01	9.28	0.27	6942.61	6951.89	6951.78	-0.11	9.72	1.0	9.8
MKTF-20	6/1/2021	9.12	9.41	0.29	6942.48	6951.89	6951.78	-0.11	9.72	1.0	9.8
MKTF-20	9/8/2021	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.72	1.0	9.8
MKTF-20	12/2/2021	ND	9.03	NA	6942.86	6951.89	6951.78	-0.11	9.72	1.0	9.8
MKTF-20	1/10/2022	ND	9.62	NA	6942.27	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	2/28/2022	ND	9.60	NA	6942.29	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	3/2/2022	ND	9.53	NA	6942.36	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	4/27/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	5/5/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	6/1/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	7/6/2022	ND	8.41	NA	6943.48	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	8/8/2022	ND	8.90	NA	6942.99	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	9/1/2022	ND	8.90	NA	6942.99	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	10/3/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	11/2/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-20	12/6/2022	ND	Dry	NA	Dry	6951.89	6951.78	-0.11	9.71	1.0	9.8
MKTF-21	4/26/2021	ND	7.39	NA	6945.29	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	5/20/2021	ND	7.51	NA	6945.17	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	6/1/2021	ND	7.09	NA	6945.59	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	9/8/2021	ND	8.91	NA	6943.77	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	12/3/2021	ND	8.96	NA	6943.72	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	1/10/2022	ND	8.93	NA	6943.75	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	2/28/2022	ND	8.96	NA	6943.72	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	3/2/2022	ND	8.98	NA	6943.70	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-21	4/27/2022	ND	8.37	NA	6944.31	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	5/5/2022	ND	8.95	NA	6943.73	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	6/1/2022	ND	8.96	NA	6943.72	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-21	7/6/2022	ND	8.43	NA	6944.25	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	8/8/2022	ND	8.74	NA	6943.94	6952.68	6952.57	-0.11	8.98	1.0	9.8
MKTF-21	9/5/2022	ND	9.01	NA	6943.67	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-21	10/3/2022	ND	Dry	NA	Dry	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-21	11/2/2022	ND	Dry	NA	Dry	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-21	12/6/2022	ND	Dry	NA	Dry	6952.68	6952.57	-0.11	9.06	1.0	9.8
MKTF-22	4/26/2021	23.46	23.68	0.22	6916.08	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	5/20/2021	22.60	24.43	1.83	6915.33	6939.76	6942.31	2.55	33.11	22.0	32.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-22	6/1/2021	23.55	25.65	2.10	6914.11	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	9/8/2021	22.93	25.11	2.18	6914.65	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	12/3/2021	22.90	24.97	2.07	6914.79	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	1/10/2022	22.69	24.82	2.13	6914.94	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	2/28/2022	22.77	23.95	1.18	6915.81	6939.76	6942.31	2.55	33.11	22.0	32.0
MKTF-22	3/2/2022	22.86	24.94	2.08	6914.82	6939.76	6942.31	2.55	33.13	22.0	32.0
MKTF-22	4/27/2022	23.41	23.66	0.25	6916.10	6939.76	6942.31	2.55	33.13	22.0	32.0
MKTF-22	5/4/2022	23.31	24.28	0.97	6915.48	6939.76	6942.31	2.55	33.13	22.0	32.0
MKTF-22	6/1/2022	23.10	25.38	2.28	6914.38	6939.76	6942.31	2.55	33.15	22.0	32.0
MKTF-22	7/6/2022	22.92	24.87	1.95	6914.89	6939.76	6942.31	2.55	33.16	22.0	32.0
MKTF-22	8/8/2022	22.88	24.49	1.61	6915.27	6939.76	6942.31	2.55	33.17	22.0	32.0
MKTF-22	9/5/2022	22.96	25.24	2.28	6914.52	6939.76	6942.31	2.55	33.17	22.0	32.0
MKTF-22	10/3/2022	22.81	25.25	2.44	6914.51	6939.76	6942.31	2.55	33.17	22.0	32.0
MKTF-22	11/2/2022	22.80	25.20	2.40	6914.56	6939.76	6942.31	2.55	33.17	22.0	32.0
MKTF-22	12/6/2022	23.21	25.02	1.81	6914.74	6939.76	6942.31	2.55	33.17	22.0	32.0
MKTF-23	4/26/2021	ND	11.15	NA	6916.08	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	5/20/2021	ND	11.44	NA	6915.79	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	6/1/2021	ND	11.23	NA	6916.00	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	9/8/2021	11.69	11.72	0.03	6915.51	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	12/3/2021	11.54	11.59	0.05	6915.64	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	1/10/2022	11.69	11.79	0.10	6915.44	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	2/28/2022	11.65	11.77	0.12	6915.46	6927.23	6929.98	2.75	17.66	7.0	17.0
MKTF-23	3/1/2022	11.52	11.57	0.05	6915.66	6927.23	6929.98	2.75	17.65	7.0	17.0
MKTF-23	4/27/2022	11.56	11.60	0.04	6915.63	6927.23	6929.98	2.75	17.65	7.0	17.0
MKTF-23	5/5/2022	11.54	11.58	0.04	6915.65	6927.23	6929.98	2.75	17.65	7.0	17.0
MKTF-23	6/1/2022	11.55	11.63	0.08	6915.60	6927.23	6929.98	2.75	17.68	7.0	17.0
MKTF-23	7/6/2022	12.23	12.27	0.04	6914.96	6927.23	6929.98	2.75	17.69	7.0	17.0
MKTF-23	8/8/2022	12.35	12.40	0.05	6914.83	6927.23	6929.98	2.75	17.71	7.0	17.0
MKTF-23	9/5/2022	11.40	11.46	0.06	6915.77	6927.23	6929.98	2.75	17.71	7.0	17.0
MKTF-23	10/3/2022	11.44	11.51	0.07	6915.72	6927.23	6929.98	2.75	17.71	7.0	17.0
MKTF-23	11/2/2022	11.45	11.53	0.08	6915.70	6927.23	6929.98	2.75	17.71	7.0	17.0
MKTF-23	12/6/2022	11.56	11.65	0.09	6915.58	6927.23	6929.98	2.75	17.71	7.0	17.0
MKTF-24	4/26/2021	ND	21.51	NA	6904.56	6926.07	6928.72	2.65	28.82	18.0	28.0
MKTF-24	5/20/2021	ND	20.56	NA	6905.51	6926.07	6928.72	2.65	28.82	18.0	28.0
MKTF-24	6/1/2021	ND	20.75	NA	6905.32	6926.07	6928.72	2.65	28.82	18.0	28.0
MKTF-24	9/8/2021	ND	21.35	NA	6904.72	6926.07	6928.72	2.65	28.82	18.0	28.0
MKTF-24	12/15/2021	ND	20.90	NA	6905.17	6926.07	6928.72	2.65	28.82	18.0	28.0
MKTF-24	1/10/2022	ND	20.57	NA	6905.50	6926.07	6928.72	2.65	28.77	18.0	28.0
MKTF-24	2/28/2022	ND	20.55	NA	6905.52	6926.07	6928.72	2.65	28.77	18.0	28.0
MKTF-24	3/2/2022	ND	20.95	NA	6905.12	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	4/27/2022	ND	21.26	NA	6904.81	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	5/5/2022	ND	20.90	NA	6905.17	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	6/2/2022	20.76	20.78	0.02	6905.29	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	7/6/2022	20.37	20.46	0.09	6905.61	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	8/8/2022	19.63	19.71	0.08	6906.36	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	9/5/2022	20.88	20.90	0.02	6905.17	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	10/3/2022	20.93	20.97	0.04	6905.10	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-24	11/2/2022	20.95	20.98	0.03	6905.09	6926.07	6928.72	2.65	28.75	18.0	28.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-24	12/6/2022	21.12	21.17	0.05	6904.90	6926.07	6928.72	2.65	28.75	18.0	28.0
MKTF-25	4/26/2021	ND	11.30	NA	6902.05	6913.35	6916.19	2.84	17.25	6.0	16.0
MKTF-25	5/20/2021	ND	10.48	NA	6902.87	6913.35	6916.19	2.84	17.25	6.0	16.0
MKTF-25	6/1/2021	ND	10.72	NA	6902.63	6913.35	6916.19	2.84	17.25	6.0	16.0
MKTF-25	9/8/2021	ND	11.61	NA	6901.74	6913.35	6916.19	2.84	17.25	6.0	16.0
MKTF-25	12/16/2021	ND	10.88	NA	6902.47	6913.35	6916.19	2.84	17.25	6.0	16.0
MKTF-25	1/10/2022	ND	10.71	NA	6902.64	6913.35	6916.19	2.84	17.23	6.0	16.0
MKTF-25	2/28/2022	ND	10.66	NA	6902.69	6913.35	6916.19	2.84	17.23	6.0	16.0
MKTF-25	3/2/2022	ND	10.86	NA	6902.49	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	4/27/2022	ND	11.30	NA	6902.05	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	5/5/2022	ND	11.17	NA	6902.18	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	6/2/2022	10.79	10.81	0.02	6902.54	6913.35	6916.19	2.84	17.54	6.0	16.0
MKTF-25	7/6/2022	10.62	10.66	0.04	6902.69	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	8/8/2022	10.76	10.79	0.03	6902.56	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	9/5/2022	10.73	10.75	0.02	6902.60	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	10/3/2022	10.79	10.82	0.03	6902.53	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	11/2/2022	10.79	10.82	0.03	6902.53	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-25	12/6/2022	10.80	10.84	0.04	6902.51	6913.35	6916.19	2.84	17.24	6.0	16.0
MKTF-26	4/26/2021	6.05	6.16	0.11	6906.39	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	5/20/2021	6.26	6.38	0.12	6906.17	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	6/1/2021	6.34	6.43	0.09	6906.12	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	9/9/2021	6.01	6.05	0.04	6906.50	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	12/9/2021	6.01	6.20	0.19	6906.35	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	1/10/2022	ND	6.06	NA	6906.49	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	2/28/2022	ND	6.05	NA	6906.50	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	3/2/2022	6.09	6.22	0.13	6906.33	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	4/27/2022	6.09	6.19	0.10	6906.36	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	5/5/2022	6.08	6.20	0.12	6906.35	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	6/1/2022	6.20	6.22	0.02	6906.33	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	7/6/2022	5.89	5.92	0.03	6906.63	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	8/8/2022	5.92	5.94	0.02	6906.61	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	9/5/2022	6.20	6.24	0.04	6906.31	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	10/3/2022	6.22	6.28	0.06	6906.27	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	11/2/2022	6.24	6.31	0.07	6906.24	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-26	12/6/2022	6.27	6.34	0.07	6906.21	6912.55	6915.31	2.76	14.14	4.0	14.0
MKTF-27	4/26/2021	ND	3.64	NA	6911.72	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	5/20/2021	ND	3.98	NA	6911.38	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	6/1/2021	ND	4.15	NA	6911.21	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	9/9/2021	ND	4.46	NA	6910.90	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	12/13/2021	ND	4.07	NA	6911.29	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	1/10/2022	ND	4.33	NA	6911.03	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	2/28/2022	ND	4.31	NA	6911.05	6915.36	6917.90	2.54	12.22	2.0	12.0
MKTF-27	3/1/2022	ND	4.04	NA	6911.32	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	4/27/2022	ND	3.86	NA	6911.50	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	5/5/2022	ND	4.07	NA	6911.29	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	6/2/2022	ND	4.58	NA	6910.78	6915.36	6917.90	2.54	12.20	2.0	12.0
MKTF-27	7/6/2022	ND	4.55	NA	6910.81	6915.36	6917.90	2.54	12.19	2.0	12.0
MKTF-27	8/8/2022	ND	4.42	NA	6910.94	6915.36	6917.90	2.54	12.18	2.0	12.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-27	9/2/2022	ND	4.81	NA	6910.55	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	10/3/2022	ND	4.90	NA	6910.46	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	11/2/2022	ND	6.48	NA	6908.88	6915.36	6917.90	2.54	12.21	2.0	12.0
MKTF-27	12/8/2022	ND	4.27	NA	6911.09	6915.36	6917.90	2.54	12.24	2.0	12.0
MKTF-28	4/26/2021	ND	5.62	NA	6913.05	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	5/20/2021	ND	5.09	NA	6913.58	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	6/1/2021	ND	5.02	NA	6913.65	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	9/9/2021	ND	5.55	NA	6913.12	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	12/13/2021	ND	4.72	NA	6913.95	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	1/10/2022	ND	4.65	NA	6914.02	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	2/28/2022	ND	4.67	NA	6914.00	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	3/1/2022	ND	4.68	NA	6913.99	6918.67	6921.52	2.85	13.32	3.0	13.0
MKTF-28	4/27/2022	ND	4.51	NA	6914.16	6918.67	6921.52	2.85	13.32	3.0	13.0
MKTF-28	5/5/2022	ND	4.89	NA	6913.78	6918.67	6921.52	2.85	13.32	3.0	13.0
MKTF-28	6/2/2022	ND	6.01	NA	6912.66	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	7/6/2022	ND	5.98	NA	6912.69	6918.67	6921.52	2.85	13.30	3.0	13.0
MKTF-28	8/8/2022	ND	5.90	NA	6912.77	6918.67	6921.52	2.85	13.29	3.0	13.0
MKTF-28	9/2/2022	ND	6.05	NA	6912.62	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	10/3/2022	ND	6.18	NA	6912.49	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	11/3/2022	ND	6.13	NA	6912.54	6918.67	6921.52	2.85	13.31	3.0	13.0
MKTF-28	12/8/2022	ND	7.40	NA	6911.27	6918.67	6921.52	2.85	13.30	3.0	13.0
MKTF-29	4/26/2021	ND	2.13	NA	6896.70	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	5/20/2021	ND	2.42	NA	6896.41	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	6/1/2021	ND	1.33	NA	6897.50	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	9/9/2021	ND	5.96	NA	6892.87	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	12/13/2021	ND	3.66	NA	6895.17	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	1/10/2022	ND	3.85	NA	6894.98	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	2/28/2022	ND	3.86	NA	6894.97	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-29	3/1/2022	ND	3.63	NA	6895.20	6898.83	6901.62	2.79	20.05	10.0	20.0
MKTF-29	4/27/2022	ND	3.76	NA	6895.07	6898.83	6901.62	2.79	20.05	10.0	20.0
MKTF-29	5/5/2022	ND	4.08	NA	6894.75	6898.83	6901.62	2.79	20.05	10.0	20.0
MKTF-29	6/2/2022	ND	4.28	NA	6894.55	6898.83	6901.62	2.79	20.06	10.0	20.0
MKTF-29	7/6/2022	ND	4.39	NA	6894.44	6898.83	6901.62	2.79	20.07	10.0	20.0
MKTF-29	8/8/2022	ND	4.59	NA	6894.24	6898.83	6901.62	2.79	20.08	10.0	20.0
MKTF-29	9/2/2022	ND	6.01	NA	6892.82	6898.83	6901.62	2.79	20.06	10.0	20.0
MKTF-29	10/3/2022	ND	6.04	NA	6892.79	6898.83	6901.62	2.79	20.06	10.0	20.0
MKTF-29	11/3/2022	ND	6.22	NA	6892.61	6898.83	6901.62	2.79	20.06	10.0	20.0
MKTF-29	12/9/2022	ND	3.46	NA	6895.37	6898.83	6901.62	2.79	20.04	10.0	20.0
MKTF-30	4/26/2021	ND	13.50	NA	6884.60	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	5/20/2021	ND	13.69	NA	6884.41	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	6/1/2021	ND	13.62	NA	6884.48	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	9/9/2021	ND	14.68	NA	6883.42	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	12/13/2021	ND	14.51	NA	6883.59	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	1/10/2022	ND	14.43	NA	6883.67	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	2/28/2022	ND	14.47	NA	6883.63	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	3/1/2022	ND	14.47	NA	6883.63	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	4/27/2022	ND	15.40	NA	6882.70	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	5/5/2022	ND	15.30	NA	6882.80	6898.10	6900.80	2.7	20.25	10.0	20.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-30	6/2/2022	ND	14.93	NA	6883.17	6898.10	6900.80	2.7	20.57	10.0	20.0
MKTF-30	7/6/2022	ND	14.27	NA	6883.83	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	8/8/2022	ND	14.40	NA	6883.70	6898.10	6900.80	2.7	20.25	10.0	20.0
MKTF-30	9/2/2022	ND	14.15	NA	6883.95	6898.10	6900.80	2.7	20.52	10.0	20.0
MKTF-30	10/3/2022	ND	14.12	NA	6883.98	6898.10	6900.80	2.7	20.52	10.0	20.0
MKTF-30	11/3/2022	ND	14.10	NA	6884.00	6898.10	6900.80	2.7	20.52	10.0	20.0
MKTF-30	12/29/2022	ND	13.72	NA	6884.38	6898.10	6900.80	2.7	20.53	10.0	20.0
MKTF-31	4/26/2021	ND	5.79	NA	6898.47	6904.26	6906.87	2.61	16.75	6.0	21.0
MKTF-31	5/20/2021	ND	5.90	NA	6898.36	6904.26	6906.87	2.61	16.75	6.0	21.0
MKTF-31	6/1/2021	ND	5.82	NA	6898.44	6904.26	6906.87	2.61	16.75	6.0	21.0
MKTF-31	9/9/2021	ND	6.79	NA	6897.47	6904.26	6906.87	2.61	16.75	6.0	21.0
MKTF-31	12/15/2021	ND	6.73	NA	6897.53	6904.26	6906.87	2.61	16.75	6.0	21.0
MKTF-31	1/10/2022	ND	6.69	NA	6897.57	6904.26	6906.87	2.61	16.72	6.0	21.0
MKTF-31	2/28/2022	ND	6.39	NA	6897.87	6904.26	6906.87	2.61	16.72	6.0	21.0
MKTF-31	3/2/2022	ND	6.69	NA	6897.57	6904.26	6906.87	2.61	16.74	6.0	21.0
MKTF-31	4/27/2022	ND	7.03	NA	6897.23	6904.26	6906.87	2.61	16.74	6.0	21.0
MKTF-31	5/5/2022	ND	6.70	NA	6897.56	6904.26	6906.87	2.61	16.74	6.0	21.0
MKTF-31	6/2/2022	ND	6.61	NA	6897.65	6904.26	6906.87	2.61	16.77	6.0	21.0
MKTF-31	7/6/2022	ND	6.90	NA	6897.36	6904.26	6906.87	2.61	16.80	6.0	21.0
MKTF-31	8/8/2022	ND	6.77	NA	6897.49	6904.26	6906.87	2.61	16.83	6.0	21.0
MKTF-31	9/1/2022	ND	6.99	NA	6897.27	6904.26	6906.87	2.61	16.77	6.0	21.0
MKTF-31	10/3/2022	ND	6.94	NA	6897.32	6904.26	6906.87	2.61	16.77	6.0	21.0
MKTF-31	11/3/2022	ND	7.02	NA	6897.24	6904.26	6906.87	2.61	16.77	6.0	21.0
MKTF-31	12/8/2022	ND	7.04	NA	6897.22	6904.26	6906.87	2.61	16.77	6.0	21.0
MKTF-32	4/26/2021	ND	11.23	NA	6897.21	6908.44	6911.11	2.67	25.12	9.5	24.5
MKTF-32	5/20/2021	ND	11.48	NA	6896.96	6908.44	6911.11	2.67	25.12	9.5	24.5
MKTF-32	6/1/2021	ND	11.19	NA	6897.25	6908.44	6911.11	2.67	25.12	9.5	24.5
MKTF-32	9/9/2021	ND	12.53	NA	6895.91	6908.44	6911.11	2.67	25.12	9.5	24.5
MKTF-32	11/30/2021	ND	11.81	NA	6896.63	6908.44	6911.11	2.67	25.12	9.5	24.5
MKTF-32	1/10/2022	ND	11.58	NA	6896.86	6908.44	6911.11	2.67	24.83	9.5	24.5
MKTF-32	2/28/2022	ND	11.59	NA	6896.85	6908.44	6911.11	2.67	24.83	9.5	24.5
MKTF-32	3/1/2022	ND	11.75	NA	6896.69	6908.44	6911.11	2.67	25.11	9.5	24.5
MKTF-32	4/27/2022	ND	11.53	NA	6896.91	6908.44	6911.11	2.67	25.11	9.5	24.5
MKTF-32	5/5/2022	ND	11.60	NA	6896.84	6908.44	6911.11	2.67	25.11	9.5	24.5
MKTF-32	6/1/2022	ND	12.08	NA	6896.36	6908.44	6911.11	2.67	25.13	9.5	24.5
MKTF-32	7/6/2022	ND	12.16	NA	6896.28	6908.44	6911.11	2.67	25.15	9.5	24.5
MKTF-32	8/8/2022	ND	12.53	NA	6895.91	6908.44	6911.11	2.67	25.17	9.5	24.5
MKTF-32	9/7/2022	ND	11.83	NA	6896.61	6908.44	6911.11	2.67	25.13	9.5	24.5
MKTF-32	10/3/2022	ND	12.13	NA	6896.31	6908.44	6911.11	2.67	25.13	9.5	24.5
MKTF-32	11/3/2022	ND	12.08	NA	6896.36	6908.44	6911.11	2.67	25.13	9.5	24.5
MKTF-32	12/6/2022	ND	7.14	NA	6901.30	6908.44	6911.11	2.67	16.73	9.5	24.5
MKTF-33	4/26/2021	21.00	21.61	0.61	6914.98	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	5/20/2021	20.05	20.36	0.31	6916.23	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	6/1/2021	19.91	20.29	0.38	6916.30	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	9/9/2021	20.30	20.49	0.19	6916.10	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	12/3/2021	20.13	20.17	0.04	6916.42	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	1/10/2022	20.04	20.19	0.15	6916.40	6936.59	6939.75	3.16	30.12	20.0	30.0
MKTF-33	2/28/2022	19.76	19.78	0.02	6916.81	6936.59	6939.75	3.16	30.12	20.0	30.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-33	3/1/2022	20.09	20.13	0.04	6916.46	6936.59	6939.75	3.16	29.94	20.0	30.0
MKTF-33	4/27/2022	19.99	20.03	0.04	6916.56	6936.59	6939.75	3.16	29.94	20.0	30.0
MKTF-33	5/4/2022	20.07	20.09	0.02	6916.50	6936.59	6939.75	3.16	29.94	20.0	30.0
MKTF-33	6/2/2022	20.24	20.30	0.06	6916.29	6936.59	6939.75	3.16	29.96	20.0	30.0
MKTF-33	7/6/2022	20.06	20.09	0.03	6916.50	6936.59	6939.75	3.16	29.98	20.0	30.0
MKTF-33	8/8/2022	20.02	20.06	0.04	6916.53	6936.59	6939.75	3.16	30.00	20.0	30.0
MKTF-33	9/5/2022	20.18	20.22	0.04	6916.37	6936.59	6939.75	3.16	30.00	20.0	30.0
MKTF-33	10/3/2022	20.29	20.34	0.05	6916.25	6936.59	6939.75	3.16	30.00	20.0	30.0
MKTF-33	11/3/2022	20.30	20.37	0.07	6916.22	6936.59	6939.75	3.16	30.00	20.0	30.0
MKTF-33	12/6/2022	20.32	20.39	0.07	6916.20	6936.59	6939.75	3.16	30.00	20.0	30.0
MKTF-34	4/26/2021	ND	19.68	NA	6922.74	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	5/20/2021	ND	17.67	NA	6924.75	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	6/1/2021	ND	17.30	NA	6925.12	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	9/9/2021	ND	16.97	NA	6925.45	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	11/30/2021	ND	16.67	NA	6925.75	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	1/10/2022	ND	16.69	NA	6925.73	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	2/28/2022	ND	16.68	NA	6925.74	6942.42	6945.35	2.93	24.86	9.5	24.5
MKTF-34	3/1/2022	ND	15.76	NA	6926.66	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	4/27/2022	ND	15.98	NA	6926.44	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	5/5/2022	ND	16.00	NA	6926.42	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	6/1/2022	15.77	15.79	0.02	6926.63	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	7/6/2022	14.70	15.39	0.69	6927.03	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	8/8/2022	14.91	15.73	0.82	6926.69	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	9/5/2022	15.73	15.76	0.03	6926.66	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	10/3/2022	15.72	15.76	0.04	6926.66	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	11/3/2022	15.71	15.77	0.06	6926.65	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-34	12/6/2022	15.82	15.89	0.07	6926.53	6942.42	6945.35	2.93	24.79	9.5	24.5
MKTF-35	4/26/2021	ND	10.58	NA	6941.32	6951.90	6951.65	-0.25	16.80	6.0	16.0
MKTF-35	5/20/2021	ND	9.85	NA	6942.05	6951.90	6951.65	-0.25	16.80	6.0	16.0
MKTF-35	6/1/2021	ND	9.72	NA	6942.18	6951.90	6951.65	-0.25	16.80	6.0	16.0
MKTF-35	9/9/2021	ND	10.06	NA	6941.84	6951.90	6951.65	-0.25	16.80	6.0	16.0
MKTF-35	12/2/2021	ND	10.40	NA	6941.50	6951.90	6951.65	-0.25	16.80	6.0	16.0
MKTF-35	1/10/2022	ND	10.23	NA	6941.67	6951.90	6951.65	-0.25	16.73	6.0	16.0
MKTF-35	2/28/2022	ND	10.25	NA	6941.65	6951.90	6951.65	-0.25	16.73	6.0	16.0
MKTF-35	3/1/2022	ND	10.35	NA	6941.55	6951.90	6951.65	-0.25	16.73	6.0	16.0
MKTF-35	4/27/2022	ND	10.65	NA	6941.25	6951.90	6951.65	-0.25	16.73	6.0	16.0
MKTF-35	5/5/2022	ND	10.64	NA	6941.26	6951.90	6951.65	-0.25	16.73	6.0	16.0
MKTF-35	6/1/2022	ND	10.70	NA	6941.20	6951.90	6951.65	-0.25	16.74	6.0	16.0
MKTF-35	7/6/2022	ND	12.35	NA	6939.55	6951.90	6951.65	-0.25	16.75	6.0	16.0
MKTF-35	8/8/2022	ND	11.48	NA	6940.42	6951.90	6951.65	-0.25	16.76	6.0	16.0
MKTF-35	9/2/2022	10.16	10.21	0.05	6941.69	6951.90	6951.65	-0.25	16.75	6.0	16.0
MKTF-35	10/3/2022	10.27	10.32	0.05	6941.58	6951.90	6951.65	-0.25	16.75	6.0	16.0
MKTF-35	11/3/2022	10.25	10.28	0.03	6941.62	6951.90	6951.65	-0.25	16.75	6.0	16.0
MKTF-35	12/6/2022	10.26	10.30	0.04	6941.60	6951.90	6951.65	-0.25	16.75	6.0	16.0
MKTF-36	4/26/2021	ND	9.30	NA	6941.21	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	5/20/2021	ND	8.69	NA	6941.82	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	6/1/2021	ND	8.50	NA	6942.01	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	9/8/2021	8.83	8.95	0.12	6941.56	6950.67	6950.12	-0.39	15.97	5.0	15.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-36	12/9/2021	8.80	8.99	0.19	6941.52	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	1/10/2022	8.76	8.96	0.20	6941.55	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	2/28/2022	8.69	8.99	0.30	6941.52	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	3/2/2022	8.76	8.94	0.18	6941.57	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	4/27/2022	9.46	9.54	0.08	6940.97	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	5/4/2022	9.39	9.49	0.10	6941.02	6950.67	6950.12	-0.39	15.97	5.0	15.0
MKTF-36	6/1/2022	8.74	8.92	0.18	6941.59	6950.67	6950.12	-0.39	15.99	5.0	15.0
MKTF-36	7/6/2022	8.91	8.98	0.07	6941.53	6950.67	6950.12	-0.39	16.01	5.0	15.0
MKTF-36	8/8/2022	8.86	8.93	0.07	6941.58	6950.67	6950.12	-0.39	16.03	5.0	15.0
MKTF-36	9/2/2022	8.66	8.73	0.07	6941.78	6950.67	6950.12	-0.39	15.99	5.0	15.0
MKTF-36	10/3/2022	8.70	8.77	0.07	6941.74	6950.67	6950.12	-0.39	15.99	5.0	15.0
MKTF-36	11/3/2022	8.72	8.79	0.07	6941.72	6950.67	6950.12	-0.39	15.99	5.0	15.0
MKTF-36	12/6/2022	8.79	8.87	0.08	6941.64	6950.67	6950.12	-0.39	15.99	5.0	15.0
MKTF-37	4/26/2021	10.30	10.33	0.03	6948.74	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	5/20/2021	9.99	10.02	0.03	6949.05	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	6/1/2021	10.06	10.10	0.04	6948.97	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	9/8/2021	10.14	10.31	0.17	6948.76	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	12/9/2021	10.50	10.57	0.07	6948.50	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	1/10/2022	11.30	11.45	0.15	6947.62	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	2/28/2022	11.20	11.44	0.24	6947.63	6959.07	6958.87	-0.20	24.87	4.0	24.0
MKTF-37	3/1/2022	10.52	10.59	0.07	6948.48	6959.07	6958.87	-0.20	24.89	4.0	24.0
MKTF-37	4/27/2022	11.52	11.75	0.23	6947.32	6959.07	6958.87	-0.20	24.89	4.0	24.0
MKTF-37	5/5/2022	11.31	11.41	0.10	6947.66	6959.07	6958.87	-0.20	24.89	4.0	24.0
MKTF-37	6/1/2022	10.59	10.64	0.05	6948.43	6959.07	6958.87	-0.20	24.90	4.0	24.0
MKTF-37	7/6/2022	11.16	11.17	0.01	6947.90	6959.07	6958.87	-0.20	24.91	4.0	24.0
MKTF-37	8/8/2022	11.23	11.27	0.04	6947.80	6959.07	6958.87	-0.20	24.92	4.0	24.0
MKTF-37	9/5/2022	10.55	10.61	0.06	6948.46	6959.07	6958.87	-0.20	24.92	4.0	24.0
MKTF-37	10/3/2022	10.50	10.57	0.07	6948.50	6959.07	6958.87	-0.20	24.92	4.0	24.0
MKTF-37	11/3/2022	10.52	10.57	0.05	6948.50	6959.07	6958.87	-0.20	24.92	4.0	24.0
MKTF-37	12/6/2022	10.80	10.84	0.04	6948.23	6959.07	6958.87	-0.20	24.92	4.0	24.0
MKTF-38	4/26/2021	ND	9.14	NA	6946.03	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	5/20/2021	ND	9.59	NA	6945.58	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	6/1/2021	ND	9.23	NA	6945.94	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	9/8/2021	ND	10.58	NA	6944.59	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	12/2/2021	ND	10.98	NA	6944.19	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	1/10/2022	ND	10.96	NA	6944.21	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	2/28/2022	ND	10.98	NA	6944.19	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	3/1/2022	ND	10.94	NA	6944.23	6955.17	6954.89	-0.28	20.56	5.0	20.0
MKTF-38	4/27/2022	ND	11.40	NA	6943.77	6955.17	6954.89	-0.28	20.56	5.0	20.0
MKTF-38	5/5/2022	ND	11.27	NA	6943.90	6955.17	6954.89	-0.28	20.56	5.0	20.0
MKTF-38	6/1/2022	ND	10.98	NA	6944.19	6955.17	6954.89	-0.28	20.58	5.0	20.0
MKTF-38	7/6/2022	ND	10.05	NA	6945.12	6955.17	6954.89	-0.28	20.60	5.0	20.0
MKTF-38	8/8/2022	ND	10.50	NA	6944.67	6955.17	6954.89	-0.28	20.62	5.0	20.0
MKTF-38	9/2/2022	ND	11.13	NA	6944.04	6955.17	6954.89	-0.28	20.58	5.0	20.0
MKTF-38	10/3/2022	ND	11.21	NA	6943.96	6955.17	6954.89	-0.28	20.58	5.0	20.0
MKTF-38	11/3/2022	ND	11.23	NA	6943.94	6955.17	6954.89	-0.28	20.58	5.0	20.0
MKTF-38	12/5/2022	ND	10.60	NA	6944.57	6955.17	6954.89	-0.28	20.58	5.0	20.0
MKTF-39	4/26/2021	11.38	11.41	0.03	6942.56	6953.97	6953.75	-0.22	15.43	5.0	15.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-39	5/20/2021	9.58	10.44	0.86	6943.53	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	6/1/2021	9.49	10.28	0.79	6943.69	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	9/8/2021	9.33	9.61	0.28	6944.36	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	12/3/2021	9.88	10.27	0.39	6943.70	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	1/10/2022	10.78	11.32	0.54	6942.65	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	2/28/2022	10.80	11.34	0.54	6942.63	6953.97	6953.75	-0.22	15.43	5.0	15.0
MKTF-39	3/1/2022	9.90	10.30	0.40	6943.67	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	4/27/2022	10.44	11.52	1.08	6942.45	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	5/4/2022	11.35	12.20	0.85	6941.77	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	6/1/2022	11.47	11.97	0.50	6942.00	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	7/6/2022	11.18	11.40	0.22	6942.57	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	8/8/2022	10.98	11.16	0.18	6942.81	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	9/5/2022	10.74	10.95	0.21	6943.02	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	10/3/2022	10.67	10.82	0.15	6943.15	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	11/3/2022	10.65	10.79	0.14	6943.18	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-39	12/6/2022	10.74	10.89	0.15	6943.08	6953.97	6953.75	-0.22	15.42	5.0	15.0
MKTF-40	4/26/2021	ND	12.67	NA	6878.68	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	5/20/2021	ND	11.65	NA	6879.70	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	6/1/2021	ND	11.72	NA	6879.63	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	9/8/2021	ND	11.10	NA	6880.25	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	12/16/2021	ND	11.37	NA	6879.98	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	1/10/2022	ND	11.46	NA	6879.89	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	2/28/2022	ND	11.42	NA	6879.93	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	3/1/2022	ND	11.32	NA	6880.03	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	4/27/2022	ND	12.12	NA	6879.23	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	5/5/2022	ND	12.35	NA	6879.00	6891.35	6894.33	2.98	20.68	5.0	20.0
MKTF-40	6/2/2022	ND	12.56	NA	6878.79	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	7/6/2022	ND	13.04	NA	6878.31	6891.35	6894.33	2.98	20.66	5.0	20.0
MKTF-40	8/8/2022	ND	12.82	NA	6878.53	6891.35	6894.33	2.98	20.65	5.0	20.0
MKTF-40	9/2/2022	ND	11.11	NA	6880.24	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	10/3/2022	ND	11.17	NA	6880.18	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	11/3/2022	ND	11.20	NA	6880.15	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-40	12/8/2022	ND	11.23	NA	6880.12	6891.35	6894.33	2.98	20.67	5.0	20.0
MKTF-41	4/26/2021	ND	18.88	NA	6872.23	6891.11	6893.64	2.53	37.32	22.0	37.0
MKTF-41	5/20/2021	ND	18.87	NA	6872.24	6891.11	6893.64	2.53	37.32	22.0	37.0
MKTF-41	6/1/2021	ND	18.61	NA	6872.50	6891.11	6893.64	2.53	37.32	22.0	37.0
MKTF-41	9/9/2021	ND	19.27	NA	6871.84	6891.11	6893.64	2.53	37.32	22.0	37.0
MKTF-41	11/30/2021	ND	18.82	NA	6872.29	6891.11	6893.64	2.53	37.32	22.0	37.0
MKTF-41	1/10/2022	ND	19.27	NA	6871.84	6891.11	6893.64	2.53	37.27	22.0	37.0
MKTF-41	2/28/2022	ND	19.52	NA	6871.59	6891.11	6893.64	2.53	37.27	22.0	37.0
MKTF-41	3/1/2022	ND	18.90	NA	6872.21	6891.11	6893.64	2.53	37.23	22.0	37.0
MKTF-41	4/27/2022	ND	18.78	NA	6872.33	6891.11	6893.64	2.53	37.23	22.0	37.0
MKTF-41	5/5/2022	ND	18.79	NA	6872.32	6891.11	6893.64	2.53	37.23	22.0	37.0
MKTF-41	6/1/2022	ND	18.85	NA	6872.26	6891.11	6893.64	2.53	37.24	22.0	37.0
MKTF-41	7/6/2022	ND	18.42	NA	6872.69	6891.11	6893.64	2.53	37.25	22.0	37.0
MKTF-41	8/8/2022	ND	19.59	NA	6871.52	6891.11	6893.64	2.53	37.26	22.0	37.0
MKTF-41	9/2/2022	ND	18.57	NA	6872.54	6891.11	6893.64	2.53	37.24	22.0	37.0
MKTF-41	10/3/2022	ND	18.58	NA	6872.53	6891.11	6893.64	2.53	37.24	22.0	37.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-41	11/3/2022	ND	18.57	NA	6872.54	6891.11	6893.64	2.53	37.24	22.0	37.0
MKTF-41	12/29/2022	ND	18.65	NA	6872.46	6891.11	6893.64	2.53	37.22	22.0	37.0
MKTF-42	4/26/2021	ND	16.38	NA	6874.04	6890.42	6892.95	2.53	30.71	10.0	30.0
MKTF-42	5/20/2021	ND	14.57	NA	6875.85	6890.42	6892.95	2.53	30.71	10.0	30.0
MKTF-42	6/1/2021	ND	14.54	NA	6875.88	6890.42	6892.95	2.53	30.71	10.0	30.0
MKTF-42	9/9/2021	ND	14.45	NA	6875.97	6890.42	6892.95	2.53	30.71	10.0	30.0
MKTF-42	11/30/2021	ND	14.27	NA	6876.15	6890.42	6892.95	2.53	30.71	10.0	30.0
MKTF-42	1/10/2022	ND	14.68	NA	6875.74	6890.42	6892.95	2.53	30.67	10.0	30.0
MKTF-42	2/28/2022	ND	14.67	NA	6875.75	6890.42	6892.95	2.53	30.67	10.0	30.0
MKTF-42	3/1/2022	ND	14.67	NA	6875.75	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	4/27/2022	ND	14.60	NA	6875.82	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	5/5/2022	ND	14.59	NA	6875.83	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	6/1/2022	14.72	14.74	0.02	6875.68	6890.42	6892.95	2.53	16.45	10.0	30.0
MKTF-42	7/6/2022	15.50	15.52	0.02	6874.90	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	8/8/2022	15.15	15.17	0.02	6875.25	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	9/5/2022	14.24	14.27	0.03	6876.15	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	10/3/2022	14.17	14.25	0.08	6876.17	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	11/3/2022	14.07	14.18	0.11	6876.24	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-42	12/1/2022	14.36	14.67	0.31	6875.75	6890.42	6892.95	2.53	30.64	10.0	30.0
MKTF-43	4/26/2021	ND	5.88	NA	6868.24	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	5/20/2021	ND	5.69	NA	6868.43	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	6/1/2021	ND	5.83	NA	6868.29	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	9/9/2021	ND	5.17	NA	6868.95	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	11/30/2021	ND	6.17	NA	6867.95	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	1/10/2022	ND	6.10	NA	6868.02	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	2/28/2022	ND	6.09	NA	6868.03	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	3/1/2022	ND	6.26	NA	6867.86	6874.12	6876.90	2.78	14.15	2.0	12.0
MKTF-43	4/27/2022	ND	5.68	NA	6868.44	6874.12	6876.90	2.78	14.15	2.0	12.0
MKTF-43	5/5/2022	ND	5.73	NA	6868.39	6874.12	6876.90	2.78	14.15	2.0	12.0
MKTF-43	6/1/2022	ND	5.26	NA	6868.86	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	7/6/2022	ND	5.44	NA	6868.68	6874.12	6876.90	2.78	14.19	2.0	12.0
MKTF-43	8/8/2022	ND	5.57	NA	6868.55	6874.12	6876.90	2.78	14.21	2.0	12.0
MKTF-43	9/2/2022	ND	5.37	NA	6868.75	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	10/3/2022	ND	5.39	NA	6868.73	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	11/3/2022	ND	5.43	NA	6868.69	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-43	12/22/2022	ND	5.32	NA	6868.80	6874.12	6876.90	2.78	14.17	2.0	12.0
MKTF-44	4/26/2021	ND	42.79	NA	6824.62	6867.41	6869.95	2.54	48.96	38.0	48.0
MKTF-44	5/20/2021	ND	42.57	NA	6824.84	6867.41	6869.95	2.54	48.96	38.0	48.0
MKTF-44	6/1/2021	ND	41.74	NA	6825.67	6867.41	6869.95	2.54	48.96	38.0	48.0
MKTF-44	9/7/2021	ND	31.71	NA	6835.70	6867.41	6869.95	2.54	48.96	38.0	48.0
MKTF-44	12/22/2021	ND	36.06	NA	6831.35	6867.41	6869.95	2.54	48.96	38.0	48.0
MKTF-44	3/1/2022	ND	38.86	NA	6828.55	6867.41	6869.95	2.54	48.71	38.0	48.0
MKTF-44	6/2/2022	ND	33.24	NA	6834.17	6867.41	6869.95	2.54	48.66	38.0	48.0
MKTF-44	7/6/2022	ND	34.62	NA	6832.79	6867.41	6869.95	2.54	48.61	38.0	48.0
MKTF-44	8/8/2022	ND	33.67	NA	6833.74	6867.41	6869.95	2.54	48.56	38.0	48.0
MKTF-44	9/27/2022	ND	33.86	NA	6833.55	6867.41	6869.95	2.54	48.66	38.0	48.0
MKTF-44	10/3/2022	ND	33.89	NA	6833.52	6867.41	6869.95	2.54	48.66	38.0	48.0
MKTF-44	11/3/2022	ND	33.98	NA	6833.43	6867.41	6869.95	2.54	48.66	38.0	48.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-44	12/22/2022	ND	33.98	NA	6833.43	6867.41	6869.95	2.54	48.66	38.0	48.0
MKTF-45	4/26/2021	15.38	15.41	0.03	6933.22	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	5/20/2021	14.54	15.05	0.51	6933.58	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	6/1/2021	15.07	15.09	0.02	6933.54	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	9/9/2021	13.44	13.49	0.05	6935.14	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	12/9/2021	13.35	13.39	0.04	6935.24	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	1/10/2022	ND	13.74	NA	6934.89	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	2/28/2022	ND	13.59	NA	6935.04	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	3/2/2022	13.32	13.37	0.05	6935.26	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	4/27/2022	14.12	14.15	0.03	6934.48	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	5/2/2022	ND	14.28	NA	6934.35	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	6/1/2022	14.53	14.67	0.14	6933.96	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	7/6/2022	14.43	14.61	0.18	6934.02	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	8/8/2022	14.23	14.40	0.17	6934.23	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	9/2/2022	14.48	14.62	0.14	6934.01	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	10/3/2022	14.07	14.09	0.02	6934.54	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	11/3/2022	14.15	14.17	0.02	6934.46	6948.63	6949.59	0.96	29.54	--	--
MKTF-45	12/9/2022	14.05	14.15	0.10	6934.48	6948.63	6949.59	0.96	29.54	--	--
MKTF-46	4/26/2021	ND	8.26	NA	6946.47	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	5/20/2021	ND	8.16	NA	6946.57	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	6/1/2021	ND	8.22	NA	6946.51	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	9/9/2021	ND	9.29	NA	6945.44	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	11/30/2021	ND	9.89	NA	6944.84	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	1/10/2022	ND	10.29	NA	6944.44	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	2/28/2022	ND	10.26	NA	6944.47	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	3/1/2022	ND	9.93	NA	6944.80	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	4/27/2022	ND	10.72	NA	6944.01	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	5/5/2022	ND	10.74	NA	6943.99	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	6/1/2022	ND	11.14	NA	6943.59	6954.73	6957.60	2.87	18.41	3.0	18.0
MKTF-46	7/6/2022	ND	10.89	NA	6943.84	6954.73	6957.60	2.87	18.39	3.0	18.0
MKTF-46	8/8/2022	ND	11.01	NA	6943.72	6954.73	6957.60	2.87	18.37	3.0	18.0
MKTF-46	9/2/2022	ND	10.14	NA	6944.59	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	10/3/2022	ND	10.22	NA	6944.51	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	11/3/2022	ND	10.25	NA	6944.48	6954.73	6957.60	2.87	18.43	3.0	18.0
MKTF-46	12/6/2022	ND	9.33	NA	6945.40	6954.73	6957.60	2.87	18.93	3.0	18.0
MKTF-47	4/26/2021	ND	Dry	NA	Dry	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	5/20/2021	ND	Dry	NA	Dry	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	6/1/2021	ND	Dry	NA	Dry	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	9/9/2021	ND	Dry	NA	Dry	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	12/3/2021	11.39	11.43	0.04	6948.08	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	1/10/2022	11.37	11.42	0.05	6948.09	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	2/28/2022	11.42	11.47	0.05	6948.04	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	3/2/2022	11.42	11.47	0.05	6948.04	6959.51	6959.09	-0.42	14.74	4.0	14.0
MKTF-47	4/27/2022	11.66	11.70	0.04	6947.81	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	5/5/2022	11.64	11.66	0.02	6947.85	6959.51	6959.09	-0.42	14.72	4.0	14.0
MKTF-47	6/2/2022	11.37	11.43	0.06	6948.08	6959.51	6959.09	-0.42	14.77	4.0	14.0
MKTF-47	7/6/2022	11.10	11.17	0.07	6948.34	6959.51	6959.09	-0.42	14.82	4.0	14.0
MKTF-47	8/8/2022	11.12	11.19	0.07	6948.32	6959.51	6959.09	-0.42	14.87	4.0	14.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-47	9/5/2022	11.57	11.67	0.10	6947.84	6959.51	6959.09	-0.42	14.87	4.0	14.0
MKTF-47	10/3/2022	11.60	11.71	0.11	6947.80	6959.51	6959.09	-0.42	14.87	4.0	14.0
MKTF-47	11/3/2022	11.62	11.71	0.09	6947.80	6959.51	6959.09	-0.42	14.87	4.0	14.0
MKTF-47	12/6/2022	11.58	11.67	0.09	6947.84	6959.51	6959.09	-0.42	14.87	4.0	14.0
MKTF-48	4/26/2021	11.22	11.46	0.24	6947.78	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	5/20/2021	9.89	10.03	0.14	6949.21	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	6/1/2021	10.15	10.39	0.24	6948.85	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	9/9/2021	10.83	11.05	0.22	6948.19	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	12/3/2021	11.85	12.39	0.54	6946.85	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	1/10/2022	12.07	12.36	0.29	6946.88	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	2/28/2022	12.12	12.32	0.20	6946.92	6959.24	6961.73	2.49	18.46	2.0	17.0
MKTF-48	3/2/2022	7.89	9.34	1.45	6949.90	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	4/27/2022	7.89	9.34	1.45	6949.90	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	5/5/2022	7.89	9.35	1.46	6949.89	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	6/2/2022	7.86	9.31	1.45	6949.93	6959.24	6961.73	2.49	18.56	2.0	17.0
MKTF-48	7/6/2022	8.62	10.20	1.58	6949.04	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	8/8/2022	8.71	10.23	1.52	6949.01	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	9/5/2022	8.02	9.44	1.42	6949.80	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	10/3/2022	11.13	11.19	0.06	6948.05	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	11/3/2022	11.19	11.25	0.06	6947.99	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-48	12/6/2022	11.51	11.55	0.04	6947.69	6959.24	6961.73	2.49	18.51	2.0	17.0
MKTF-49	5/20/2021	ND	18.45	NA	6925.55	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	6/1/2021	ND	18.16	NA	6925.84	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	6/16/2021	18.54	19.29	0.75	6924.71	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	9/9/2021	18.01	19.07	1.06	6924.93	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	12/3/2021	17.74	18.03	0.29	6925.97	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	1/10/2022	18.34	18.82	0.48	6925.18	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	2/28/2022	18.24	18.90	0.66	6925.10	6944.00	6946.76	2.76	22.26	5.0	25.0
MKTF-49	3/2/2022	17.70	17.88	0.18	6926.12	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	4/27/2022	18.79	19.05	0.26	6924.95	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	5/4/2022	18.46	20.46	2.00	6923.54	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	6/2/2022	18.69	19.89	1.20	6924.11	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	7/6/2022	18.69	20.72	2.03	6923.28	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	8/8/2022	18.53	20.10	1.57	6923.90	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	9/5/2022	18.44	20.18	1.74	6923.82	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	10/3/2022	18.62	19.22	0.60	6924.78	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	11/3/2022	18.64	19.28	0.64	6924.72	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-49	12/6/2022	18.58	19.72	1.14	6924.28	6944.00	6946.76	2.76	22.24	5.0	25.0
MKTF-50	5/20/2021	ND	13.33	NA	6926.35	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	6/1/2021	ND	13.52	NA	6926.16	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	6/16/2021	13.42	13.62	0.20	6926.06	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	9/9/2021	12.26	12.54	0.28	6927.14	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	12/9/2021	12.30	12.56	0.26	6927.12	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	1/10/2022	12.36	12.54	0.18	6927.14	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	2/28/2022	12.41	12.57	0.16	6927.11	6939.68	6942.82	3.14	18.56	3.0	18.0
MKTF-50	3/2/2022	12.27	12.57	0.30	6927.11	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	4/27/2022	12.66	12.89	0.23	6926.79	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	5/5/2022	12.68	12.88	0.20	6926.80	6939.68	6942.82	3.14	18.57	3.0	18.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MKTF-50	6/2/2022	12.87	13.18	0.31	6926.50	6939.68	6942.82	3.14	18.61	3.0	18.0
MKTF-50	7/6/2022	12.66	12.89	0.23	6926.79	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	8/8/2022	12.82	13.12	0.30	6926.56	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	9/5/2022	12.76	13.05	0.29	6926.63	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	10/3/2022	12.68	12.96	0.28	6926.72	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	11/3/2022	12.76	13.01	0.25	6926.67	6939.68	6942.82	3.14	18.57	3.0	18.0
MKTF-50	12/6/2022	NA	12.89	NA	6926.79	6939.68	6942.82	3.14	60.16	3.0	18.0
MKTF-50	1/11/2023	13.35	14.26	0.91	6925.42	6939.68	6942.82	3.14	60.16	3.0	18.0
NAPIS-1	4/26/2021	ND	7.58	NA	6906.04	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	5/20/2021	ND	8.28	NA	6905.34	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	6/3/2021	ND	7.61	NA	6906.01	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	9/8/2021	6.79	6.80	0.01	6906.82	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	12/3/2021	7.02	7.04	0.02	6906.58	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	1/10/2022	7.06	7.09	0.03	6906.53	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	2/28/2022	7.04	7.08	0.04	6906.54	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	3/1/2022	7.07	7.09	0.02	6906.53	6913.62	6913.86	0.24	13.71	3.7	13.7
NAPIS-1	4/27/2022	7.26	7.31	0.05	6906.31	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	5/5/2022	7.27	7.34	0.07	6906.28	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	6/2/2022	7.21	7.24	0.03	6906.38	6913.62	6913.86	0.24	13.71	3.7	13.7
NAPIS-1	7/7/2022	7.01	7.03	0.02	6906.59	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	8/9/2022	7.04	7.06	0.02	6906.56	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	9/5/2022	7.20	7.23	0.03	6906.39	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	10/5/2022	7.26	7.30	0.04	6906.32	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	11/2/2022	7.29	7.33	0.04	6906.29	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-1	12/6/2022	7.39	7.44	0.05	6906.18	6913.62	6913.86	0.24	13.70	3.7	13.7
NAPIS-2	4/26/2021	ND	9.89	NA	6903.51	6913.40	6912.65	-0.75	15.46	4.2	14.2
NAPIS-2	5/20/2021	ND	9.71	NA	6903.69	6913.40	6912.65	-0.75	15.49	4.2	14.2
NAPIS-2	6/1/2021	ND	9.85	NA	6903.55	6913.40	6912.65	-0.75	15.49	4.2	14.2
NAPIS-2	9/8/2021	ND	9.03	NA	6904.37	6913.40	6912.65	-0.75	15.49	4.2	14.2
NAPIS-2	12/13/2021	ND	9.19	NA	6904.21	6913.40	6912.65	-0.75	15.49	4.2	14.2
NAPIS-2	1/10/2022	ND	9.30	NA	6904.10	6913.40	6912.65	-0.75	15.14	4.2	14.2
NAPIS-2	2/28/2022	ND	9.29	NA	6904.11	6913.40	6912.65	-0.75	15.14	4.2	14.2
NAPIS-2	3/1/2022	ND	9.15	NA	6904.25	6913.40	6912.65	-0.75	15.15	4.2	14.2
NAPIS-2	4/27/2022	ND	9.81	NA	6903.59	6913.40	6912.65	-0.75	15.15	4.2	14.2
NAPIS-2	5/5/2022	ND	10.00	NA	6903.40	6913.40	6912.65	-0.75	15.15	4.2	14.2
NAPIS-2	6/2/2022	ND	10.80	NA	6902.60	6913.40	6912.65	-0.75	15.40	4.2	14.2
NAPIS-2	7/7/2022	ND	10.85	NA	6902.55	6913.40	6912.65	-0.75	15.65	4.2	14.2
NAPIS-2	8/9/2022	ND	10.98	NA	6902.42	6913.40	6912.65	-0.75	15.90	4.2	14.2
NAPIS-2	9/2/2022	ND	10.60	NA	6902.80	6913.40	6912.65	-0.75	15.40	4.2	14.2
NAPIS-2	10/5/2022	ND	10.65	NA	6902.75	6913.40	6912.65	-0.75	15.40	4.2	14.2
NAPIS-2	11/2/2022	ND	10.68	NA	6902.72	6913.40	6912.65	-0.75	15.40	4.2	14.2
NAPIS-2	12/14/2022	ND	10.68	NA	6902.72	6913.40	6912.65	-0.75	15.40	4.2	14.2
NAPIS-3	4/26/2021	ND	9.51	NA	6903.87	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	5/20/2021	ND	9.92	NA	6903.46	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	6/3/2021	ND	9.93	NA	6903.45	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	9/8/2021	ND	8.77	NA	6904.61	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	12/13/2021	ND	8.85	NA	6904.53	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	1/10/2022	ND	8.92	NA	6904.46	6913.38	6912.76	-0.62	32.12	25.4	30.4

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
NAPIS-3	2/28/2022	ND	8.62	NA	6904.76	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	3/1/2022	ND	8.80	NA	6904.58	6913.38	6912.76	-0.62	24.92	25.4	30.4
NAPIS-3	4/27/2022	ND	8.97	NA	6904.41	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	5/5/2022	ND	9.04	NA	6904.34	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	6/2/2022	ND	10.63	NA	6902.75	6913.38	6912.76	-0.62	24.94	25.4	30.4
NAPIS-3	7/7/2022	ND	10.65	NA	6902.73	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	8/9/2022	ND	10.60	NA	6902.78	6913.38	6912.76	-0.62	32.12	25.4	30.4
NAPIS-3	9/2/2022	ND	10.37	NA	6903.01	6913.38	6912.76	-0.62	24.92	25.4	30.4
NAPIS-3	10/5/2022	ND	10.34	NA	6903.04	6913.38	6912.76	-0.62	24.92	25.4	30.4
NAPIS-3	11/2/2022	ND	10.42	NA	6902.96	6913.38	6912.76	-0.62	24.92	25.4	30.4
NAPIS-3	12/14/2022	ND	10.55	NA	6902.83	6913.38	6912.76	-0.62	24.92	25.4	30.4
OAPIS-1	4/26/2021	ND	10.88	NA	6903.49	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	5/20/2021	ND	11.52	NA	6902.85	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	6/3/2021	ND	10.72	NA	6903.65	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	9/8/2021	ND	9.34	NA	6905.03	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	12/13/2021	ND	9.85	NA	6904.52	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	1/10/2022	ND	9.84	NA	6904.53	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	2/28/2022	ND	9.80	NA	6904.57	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	3/1/2022	ND	9.83	NA	6904.54	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	4/27/2022	ND	9.86	NA	6904.51	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	5/5/2022	ND	10.05	NA	6904.32	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	6/2/2022	ND	10.42	NA	6903.95	6914.37	6916.73	2.36	25.60	16.0	26.0
OAPIS-1	7/7/2022	ND	10.80	NA	6903.57	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	8/9/2022	ND	10.84	NA	6903.53	6914.37	6916.73	2.36	25.64	16.0	26.0
OAPIS-1	9/2/2022	ND	10.04	NA	6904.33	6914.37	6916.73	2.36	25.59	16.0	26.0
OAPIS-1	10/5/2022	ND	10.00	NA	6904.37	6914.37	6916.73	2.36	25.59	16.0	26.0
OAPIS-1	11/3/2022	ND	10.13	NA	6904.24	6914.37	6916.73	2.36	25.59	16.0	26.0
OAPIS-1	12/11/2022	ND	9.99	NA	6904.38	6914.37	6916.73	2.36	25.59	16.0	26.0
OAPIS-1	12/15/2022	ND	10.16	NA	6904.21	6914.37	6916.73	2.36	25.59	16.0	26.0
OW-12A	9/8/2021	ND	Dry	NA	Dry	6943.65	6943.06	-0.59	36.09	13.0	32.7
OW-12A	12/3/2021	ND	26.14	NA	6917.51	6943.65	6943.06	-0.59	36.09	13.0	32.7
OW-12A	3/2/2022	ND	26.25	NA	6917.40	6943.65	6943.06	-0.59	34.09	13.0	32.7
OW-12A	6/1/2022	ND	26.79	NA	6916.86	6943.65	6943.06	-0.59	33.79	13.0	32.7
OW-12A	9/2/2022	ND	26.61	NA	6917.04	6943.65	6943.06	-0.59	33.79	13.0	32.7
OW-12A	10/4/2022	ND	26.59	NA	6917.06	6943.65	6943.06	-0.59	33.79	13.0	32.7
OW-12A	11/3/2022	ND	26.65	NA	6917.00	6943.65	6943.06	-0.59	33.79	13.0	32.7
OW-12A	12/7/2022	ND	26.64	NA	6917.01	6943.65	6943.06	-0.59	33.79	13.0	32.7
OW-14	12/7/2020	NA	22.30	NA	6902.25	6924.55	6926.65	2.10	44.42	35.0	45.0
OW-14	2/27/2021	ND	21.22	NA	6903.33	6924.55	6926.65	2.10	44.42	35.0	45.0
OW-14	6/2/2021	ND	21.55	NA	6903.00	6924.55	6926.65	2.10	44.42	35.0	45.0
OW-14	9/23/2021	ND	21.63	NA	6902.92	6924.55	6926.65	2.10	44.42	35.0	45.0
OW-14	12/29/2021	ND	20.70	NA	6903.85	6924.55	6926.65	2.10	44.42	35.0	45.0
OW-14	3/1/2022	ND	20.66	NA	6903.89	6924.55	6926.65	2.10	46.31	35.0	45.0
OW-14	6/2/2022	ND	22.19	NA	6902.36	6924.55	6926.65	2.10	45.20	35.0	45.0
OW-14	9/5/2022	ND	22.65	NA	6901.90	6924.55	6926.65	2.10	45.20	35.0	45.0
OW-14	10/4/2022	ND	22.62	NA	6901.93	6924.55	6926.65	2.10	45.20	35.0	45.0
OW-14	11/3/2022	ND	22.85	NA	6901.70	6924.55	6926.65	2.10	45.20	35.0	45.0
OW-14	12/6/2022	ND	23.00	NA	6901.55	6924.55	6926.65	2.10	45.20	35.0	45.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-29	12/7/2020	ND	14.04	NA	6899.85	6913.89	6917.00	3.11	47.94	37.5	47.5
OW-29	2/27/2021	ND	13.73	NA	6900.16	6913.89	6917.00	3.11	47.94	37.5	47.5
OW-29	6/2/2021	ND	14.17	NA	6899.72	6913.89	6917.00	3.11	47.94	37.5	47.5
OW-29	9/23/2021	ND	14.92	NA	6898.97	6913.89	6917.00	3.11	47.94	37.5	47.5
OW-29	12/1/2021	ND	14.54	NA	6899.35	6913.89	6917.00	3.11	47.94	37.5	47.5
OW-29	3/1/2022	ND	14.34	NA	6899.55	6913.89	6917.00	3.11	48.35	37.5	47.5
OW-29	6/1/2022	ND	15.54	NA	6898.35	6913.89	6917.00	3.11	48.35	37.5	47.5
OW-29	9/7/2022	ND	15.44	NA	6898.45	6913.89	6917.00	3.11	48.34	37.5	47.5
OW-29	10/4/2022	ND	15.52	NA	6898.37	6913.89	6917.00	3.11	48.34	37.5	47.5
OW-29	11/3/2022	ND	15.59	NA	6898.30	6913.89	6917.00	3.11	48.34	37.5	47.5
OW-29	12/6/2022	ND	15.71	NA	6898.18	6913.89	6917.00	3.11	48.34	37.5	47.5
OW-29	12/11/2022	ND	15.47	NA	6898.42	6913.89	6917.00	3.11	48.34	37.5	47.5
OW-30	12/7/2020	ND	19.34	NA	6902.47	6921.81	6924.69	2.88	47.02	37.9	47.9
OW-30	2/27/2021	ND	19.14	NA	6902.67	6921.81	6924.69	2.88	47.02	37.9	47.9
OW-30	6/2/2021	ND	19.54	NA	6902.27	6921.81	6924.69	2.88	47.02	37.9	47.9
OW-30	9/23/2021	ND	19.42	NA	6902.39	6921.81	6924.69	2.88	47.33	37.9	47.9
OW-30	12/28/2021	ND	19.12	NA	6902.69	6921.81	6924.69	2.88	47.33	37.9	47.9
OW-30	3/1/2022	ND	19.07	NA	6902.74	6921.81	6924.69	2.88	53.17	37.9	47.9
OW-30	6/2/2022	ND	19.93	NA	6901.88	6921.81	6924.69	2.88	47.15	37.9	47.9
OW-30	9/5/2022	ND	19.62	NA	6902.19	6921.81	6924.69	2.88	47.15	37.9	47.9
OW-30	10/4/2022	ND	19.65	NA	6902.16	6921.81	6924.69	2.88	47.15	37.9	47.9
OW-30	11/3/2022	ND	19.35	NA	6902.46	6921.81	6924.69	2.88	47.15	37.9	47.9
OW-30	12/6/2022	ND	19.77	NA	6902.04	6921.81	6924.69	2.88	47.17	37.9	47.9
OW-50	12/7/2020	ND	13.14	NA	6899.49	6912.63	6914.21	1.58	37.44	48.0	63.0
OW-50	2/27/2021	ND	12.74	NA	6899.89	6912.63	6914.21	1.58	62.42	48.0	63.0
OW-50	6/2/2021	ND	13.13	NA	6899.50	6912.63	6914.21	1.58	62.42	48.0	63.0
OW-50	9/23/2021	ND	13.87	NA	6898.76	6912.63	6914.21	1.58	62.42	48.0	63.0
OW-50	12/1/2021	ND	13.50	NA	6899.13	6912.63	6914.21	1.58	62.42	48.0	63.0
OW-50	3/2/2022	ND	13.32	NA	6899.31	6912.63	6914.21	1.58	61.81	48.0	63.0
OW-50	6/1/2022	ND	13.62	NA	6899.01	6912.63	6914.21	1.58	61.72	48.0	63.0
OW-50	9/2/2022	ND	14.37	NA	6898.26	6912.63	6914.21	1.58	61.72	48.0	63.0
OW-50	10/4/2022	ND	14.31	NA	6898.32	6912.63	6914.21	1.58	61.72	48.0	63.0
OW-50	11/3/2022	ND	14.59	NA	6898.04	6912.63	6914.21	1.58	61.72	48.0	63.0
OW-50	12/6/2022	ND	14.44	NA	6898.19	6912.63	6914.21	1.58	61.72	48.0	63.0
OW-52	12/7/2020	ND	13.27	NA	6893.26	6906.53	6907.68	1.15	39.28	64.0	79.0
OW-52	2/27/2021	ND	12.93	NA	6893.60	6906.53	6907.68	1.15	76.59	64.0	79.0
OW-52	6/2/2021	ND	12.99	NA	6893.54	6906.53	6907.68	1.15	76.59	64.0	79.0
OW-52	9/23/2021	ND	13.67	NA	6892.86	6906.53	6907.68	1.15	76.59	64.0	79.0
OW-52	12/7/2021	ND	13.41	NA	6893.12	6906.53	6907.68	1.15	76.59	64.0	79.0
OW-52	3/2/2022	ND	13.20	NA	6893.33	6906.53	6907.68	1.15	74.40	64.0	79.0
OW-52	6/1/2022	ND	13.35	NA	6893.18	6906.53	6907.68	1.15	55.35	64.0	79.0
OW-52	9/6/2022	ND	13.92	NA	6892.61	6906.53	6907.68	1.15	55.35	64.0	79.0
OW-52	10/4/2022	ND	13.95	NA	6892.58	6906.53	6907.68	1.15	55.35	64.0	79.0
OW-52	11/3/2022	ND	14.35	NA	6892.18	6906.53	6907.68	1.15	55.35	64.0	79.0
OW-52	12/6/2022	ND	14.00	NA	6892.53	6906.53	6907.68	1.15	55.35	64.0	79.0
OW-53	12/7/2020	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	2/27/2021	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	6/2/2021	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-53	9/23/2021	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	12/1/2021	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	3/2/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	6/1/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	9/2/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	10/4/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	11/3/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-53	12/6/2022	ND	Dry	NA	Dry	6911.93	6914.38	2.67	31.24	16.0	31.0
OW-54	12/7/2020	ND	15.13	NA	6901.14	6916.36	6918.92	2.65	21.93	13.0	28.0
OW-54	2/27/2021	ND	14.85	NA	6901.42	6916.36	6918.92	2.65	28.41	13.0	28.0
OW-54	6/2/2021	ND	15.23	NA	6901.04	6916.36	6918.92	2.65	28.41	13.0	28.0
OW-54	9/23/2021	ND	15.89	NA	6900.38	6916.36	6918.92	2.65	28.41	13.0	28.0
OW-54	12/28/2021	ND	15.40	NA	6900.87	6916.36	6918.92	2.65	28.41	13.0	28.0
OW-54	3/2/2022	ND	15.38	NA	6900.89	6916.36	6918.92	2.65	27.05	13.0	28.0
OW-54	6/2/2022	ND	15.70	NA	6900.57	6916.36	6918.92	2.65	27.08	13.0	28.0
OW-54	9/6/2022	ND	16.39	NA	6899.88	6916.36	6918.92	2.65	27.10	13.0	28.0
OW-54	10/4/2022	ND	16.35	NA	6899.92	6916.36	6918.92	2.65	27.10	13.0	28.0
OW-54	11/3/2022	ND	17.45	NA	6898.82	6916.36	6918.92	2.65	27.10	13.0	28.0
OW-54	12/6/2022	ND	16.48	NA	6899.79	6916.36	6918.92	2.65	27.10	13.0	28.0
OW-55	12/7/2020	ND	15.38	NA	6905.64	6921.01	6923.25	2.23	22.25	13.0	28.0
OW-55	2/27/2021	ND	15.16	NA	6905.86	6921.01	6923.25	2.23	22.25	13.0	28.0
OW-55	6/2/2021	ND	15.59	NA	6905.43	6921.01	6923.25	2.23	22.25	13.0	28.0
OW-55	9/23/2021	ND	16.24	NA	6904.78	6921.01	6923.25	2.23	22.25	13.0	28.0
OW-55	12/28/2021	ND	15.87	NA	6905.15	6921.01	6923.25	2.23	22.25	13.0	28.0
OW-55	3/2/2022	ND	15.85	NA	6905.17	6921.01	6923.25	2.23	28.09	13.0	28.0
OW-55	6/2/2022	ND	16.27	NA	6904.75	6921.01	6923.25	2.23	27.97	13.0	28.0
OW-55	9/7/2022	ND	16.92	NA	6904.10	6921.01	6923.25	2.23	27.97	13.0	28.0
OW-55	10/4/2022	ND	16.94	NA	6904.08	6921.01	6923.25	2.23	27.97	13.0	28.0
OW-55	11/3/2022	ND	17.54	NA	6903.48	6921.01	6923.25	2.23	27.97	13.0	28.0
OW-55	12/6/2022	ND	16.99	NA	6904.03	6921.01	6923.25	2.23	27.97	13.0	28.0
OW-56	12/7/2020	ND	11.16	NA	6906.45	6917.79	6920.18	2.57	16.01	6.0	16.0
OW-56	2/27/2021	ND	10.51	NA	6907.10	6917.79	6920.18	2.57	16.04	6.0	16.0
OW-56	6/2/2021	ND	11.18	NA	6906.43	6917.79	6920.18	2.57	16.04	6.0	16.0
OW-56	9/23/2021	ND	11.81	NA	6905.80	6917.79	6920.18	2.57	16.04	6.0	16.0
OW-56	12/22/2021	ND	10.78	NA	6906.83	6917.79	6920.18	2.57	16.04	6.0	16.0
OW-56	3/2/2022	ND	10.73	NA	6906.88	6917.79	6920.18	2.57	16.03	6.0	16.0
OW-56	6/2/2022	ND	10.83	NA	6906.78	6917.79	6920.18	2.57	16.03	6.0	16.0
OW-56	9/2/2022	ND	11.66	NA	6905.95	6917.79	6920.18	2.57	16.01	6.0	16.0
OW-56	10/4/2022	ND	11.63	NA	6905.98	6917.79	6920.18	2.57	16.01	6.0	16.0
OW-56	11/3/2022	ND	11.61	NA	6906.00	6917.79	6920.18	2.57	16.01	6.0	16.0
OW-56	12/6/2022	ND	11.78	NA	6905.83	6917.79	6920.18	2.57	16.03	6.0	16.0
OW-57	4/26/2021	ND	18.61	NA	6912.03	6930.64	6933.10	2.46	25.03	15.0	25.0
OW-57	5/20/2021	ND	17.42	NA	6913.22	6930.64	6933.10	2.46	24.73	15.0	25.0
OW-57	6/2/2021	ND	18.57	NA	6912.07	6930.64	6933.10	2.46	24.73	15.0	25.0
OW-57	9/9/2021	ND	19.24	NA	6911.40	6930.64	6933.10	2.46	24.73	15.0	25.0
OW-57	12/13/2021	ND	19.29	NA	6911.35	6930.64	6933.10	2.46	24.73	15.0	25.0
OW-57	1/10/2022	ND	19.17	NA	6911.47	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	2/28/2022	ND	19.15	NA	6911.49	6930.64	6933.10	2.46	25.62	15.0	25.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-57	3/1/2022	ND	19.34	NA	6911.30	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	4/27/2022	ND	19.69	NA	6910.95	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	5/5/2022	ND	19.76	NA	6910.88	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	6/2/2022	ND	19.89	NA	6910.75	6930.64	6933.10	2.46	25.92	15.0	25.0
OW-57	7/7/2022	ND	19.58	NA	6911.06	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	8/9/2022	ND	19.49	NA	6911.15	6930.64	6933.10	2.46	25.62	15.0	25.0
OW-57	9/2/2022	ND	20.19	NA	6910.45	6930.64	6933.10	2.46	25.92	15.0	25.0
OW-57	10/4/2022	ND	20.17	NA	6910.47	6930.64	6933.10	2.46	25.92	15.0	25.0
OW-57	11/3/2022	ND	20.09	NA	6910.55	6930.64	6933.10	2.46	25.92	15.0	25.0
OW-57	12/7/2022	ND	20.47	NA	6910.17	6930.64	6933.10	2.46	25.92	15.0	25.0
OW-58	4/26/2021	ND	25.04	NA	6909.67	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	5/20/2021	ND	23.54	NA	6911.17	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	6/2/2021	ND	24.84	NA	6909.87	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	9/9/2021	ND	25.41	NA	6909.30	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	12/13/2021	ND	25.42	NA	6909.29	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	1/10/2022	ND	25.18	NA	6909.53	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	2/28/2022	ND	25.21	NA	6909.50	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	3/1/2022	ND	25.51	NA	6909.20	6934.71	6934.50	-0.21	47.69	38.0	48.0
OW-58	4/27/2022	ND	25.65	NA	6909.06	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	5/5/2022	ND	25.82	NA	6908.89	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	6/2/2022	ND	26.01	NA	6908.70	6934.71	6934.50	-0.21	47.68	38.0	48.0
OW-58	7/7/2022	ND	24.64	NA	6910.07	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	8/9/2022	ND	25.52	NA	6909.19	6934.71	6934.50	-0.21	48.16	38.0	48.0
OW-58	9/2/2022	ND	26.06	NA	6908.65	6934.71	6934.50	-0.21	47.68	38.0	48.0
OW-58	10/4/2022	ND	26.13	NA	6908.58	6934.71	6934.50	-0.21	47.68	38.0	48.0
OW-58	11/3/2022	ND	26.19	NA	6908.52	6934.71	6934.50	-0.21	47.68	38.0	48.0
OW-58	12/6/2022	ND	26.26	NA	6908.45	6934.71	6934.50	-0.21	47.68	38.0	48.0
OW-58A	4/26/2021	ND	24.11	NA	6908.87	6932.98	6935.88	2.90	33.84	13.0	33.0
OW-58A	5/20/2021	ND	23.41	NA	6909.57	6932.98	6935.88	2.90	33.96	13.0	33.0
OW-58A	6/2/2021	ND	23.73	NA	6909.25	6932.98	6935.88	2.90	33.96	13.0	33.0
OW-58A	9/9/2021	ND	24.70	NA	6908.28	6932.98	6935.88	2.90	33.96	13.0	33.0
OW-58A	12/13/2021	ND	24.65	NA	6908.33	6932.98	6935.88	2.90	33.96	13.0	33.0
OW-58A	1/10/2022	ND	24.43	NA	6908.55	6932.98	6935.88	2.90	33.50	13.0	33.0
OW-58A	2/28/2022	ND	24.40	NA	6908.58	6932.98	6935.88	2.90	33.50	13.0	33.0
OW-58A	3/1/2022	ND	24.60	NA	6908.38	6932.98	6935.88	2.90	33.65	13.0	33.0
OW-58A	4/27/2022	ND	25.24	NA	6907.74	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	5/5/2022	ND	25.23	NA	6907.75	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	6/2/2022	ND	25.30	NA	6907.68	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	7/7/2022	ND	23.30	NA	6909.68	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	8/9/2022	ND	23.43	NA	6909.55	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	9/2/2022	ND	25.30	NA	6907.68	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	10/4/2022	ND	25.27	NA	6907.71	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	11/3/2022	ND	25.05	NA	6907.93	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-58A	12/16/2022	25.65	27.01	1.36	6905.97	6932.98	6935.88	2.90	33.45	13.0	33.0
OW-59	12/7/2020	ND	21.65	NA	6865.82	6887.63	6889.73	2.26	36.29	20.0	35.0
OW-59	2/27/2021	ND	21.38	NA	6866.09	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	6/2/2021	ND	21.44	NA	6866.03	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	9/8/2021	ND	21.74	NA	6865.73	6887.63	6889.73	2.26	36.34	20.0	35.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-59	12/22/2021	ND	21.59	NA	6865.88	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	3/2/2022	ND	21.67	NA	6865.80	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	6/2/2022	ND	21.58	NA	6865.89	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	9/2/2022	ND	21.84	NA	6865.63	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	10/4/2022	ND	21.83	NA	6865.64	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	11/3/2022	ND	21.94	NA	6865.53	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-59	12/28/2022	ND	21.86	NA	6865.61	6887.63	6889.73	2.26	36.34	20.0	35.0
OW-60	1/28/2021	ND	13.88	NA	6877.06	6891.06	6893.51	2.57	43.13	25.0	45.0
OW-60	2/27/2021	ND	13.90	NA	6877.04	6891.06	6893.51	2.57	43.13	25.0	45.0
OW-60	6/2/2021	ND	14.09	NA	6876.85	6891.06	6893.51	2.57	43.13	25.0	45.0
OW-60	9/29/2021	ND	15.79	NA	6875.15	6891.06	6893.51	2.57	43.13	25.0	45.0
OW-60	12/1/2021	ND	14.18	NA	6876.76	6891.06	6893.51	2.57	43.13	25.0	45.0
OW-60	3/2/2022	ND	14.15	NA	6876.79	6891.06	6893.51	2.57	41.20	25.0	45.0
OW-60	6/2/2022	ND	13.97	NA	6876.97	6891.06	6893.51	2.57	44.25	25.0	45.0
OW-60	9/2/2022	ND	14.37	NA	6876.57	6891.06	6893.51	2.57	44.28	25.0	45.0
OW-60	10/4/2022	ND	14.33	NA	6876.61	6891.06	6893.51	2.57	44.28	25.0	45.0
OW-60	11/3/2022	ND	14.46	NA	6876.48	6891.06	6893.51	2.57	44.28	25.0	45.0
OW-60	12/28/2022	ND	14.46	NA	6876.48	6891.06	6893.51	2.57	44.28	25.0	45.0
OW-61	4/26/2021	16.34	18.84	2.50	6942.14	6960.91	6963.57	2.59	31.28	8.0	28.0
OW-61	5/20/2021	16.52	19.36	2.84	6941.62	6960.91	6963.57	2.59	32.30	8.0	28.0
OW-61	6/2/2021	16.03	18.30	2.27	6942.68	6960.91	6963.57	2.59	32.30	8.0	28.0
OW-61	9/7/2021	17.77	21.19	3.42	6939.79	6960.91	6963.57	2.59	32.30	8.0	28.0
OW-61	12/2/2021	19.10	19.79	0.69	6941.19	6960.91	6963.57	2.59	32.30	8.0	28.0
OW-61	1/10/2022	20.39	20.61	0.22	6940.37	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	2/28/2022	20.43	20.61	0.18	6940.37	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	3/2/2022	19.11	19.81	0.70	6941.17	6960.91	6963.57	2.59	32.27	8.0	28.0
OW-61	4/27/2022	19.54	20.46	0.92	6940.52	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	5/9/2022	21.91	22.53	0.62	6938.45	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	6/2/2022	22.09	22.80	0.71	6938.18	6960.91	6963.57	2.59	32.27	8.0	28.0
OW-61	7/7/2022	22.05	23.34	1.29	6937.64	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	8/9/2022	21.83	23.18	1.35	6937.80	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	9/2/2022	21.73	23.19	1.46	6937.79	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	10/4/2022	21.64	23.20	1.56	6937.78	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	11/3/2022	21.41	23.20	1.79	6937.78	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-61	12/6/2022	22.39	23.55	1.16	6937.43	6960.91	6963.57	2.59	32.28	8.0	28.0
OW-62	4/26/2021	21.05	21.22	0.17	6913.26	6934.73	6937.36	2.88	29.59	8.0	28.0
OW-62	5/20/2021	20.92	21.56	0.64	6912.92	6934.73	6937.36	2.88	29.99	8.0	28.0
OW-62	6/2/2021	20.09	20.34	0.25	6914.14	6934.73	6937.36	2.88	29.99	8.0	28.0
OW-62	9/9/2021	20.57	20.78	0.21	6913.70	6934.73	6937.36	2.88	29.99	8.0	28.0
OW-62	12/9/2021	20.92	21.26	0.34	6913.22	6934.73	6937.36	2.88	29.99	8.0	28.0
OW-62	1/10/2022	20.10	20.67	0.57	6913.81	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	2/28/2022	20.14	20.57	0.43	6913.91	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	3/2/2022	20.89	21.27	0.38	6913.21	6934.73	6937.36	2.88	29.90	8.0	28.0
OW-62	4/27/2022	21.31	21.64	0.33	6912.84	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	5/9/2022	21.11	21.45	0.34	6913.03	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	6/2/2022	20.87	21.22	0.35	6913.26	6934.73	6937.36	2.88	34.90	8.0	28.0
OW-62	7/7/2022	21.12	21.50	0.38	6912.98	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	8/9/2022	21.21	21.56	0.35	6912.92	6934.73	6937.36	2.88	29.92	8.0	28.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-62	9/2/2022	20.82	21.25	0.43	6913.23	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	10/4/2022	20.84	21.30	0.46	6913.18	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	11/3/2022	21.04	21.42	0.38	6913.06	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-62	12/6/2022	20.95	21.37	0.42	6913.11	6934.73	6937.36	2.88	29.92	8.0	28.0
OW-63	4/26/2021	ND	18.40	NA	6913.66	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	5/20/2021	ND	18.52	NA	6913.54	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	6/2/2021	ND	18.37	NA	6913.69	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	9/28/2021	ND	18.85	NA	6913.21	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	12/16/2021	ND	18.93	NA	6913.13	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	1/10/2022	ND	18.89	NA	6913.17	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	2/28/2022	ND	18.93	NA	6913.13	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	3/1/2022	ND	18.95	NA	6913.11	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	4/27/2022	ND	19.22	NA	6912.84	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	5/9/2022	ND	19.29	NA	6912.77	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	6/1/2022	ND	19.51	NA	6912.55	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	7/7/2022	ND	18.51	NA	6913.55	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	8/9/2022	ND	18.77	NA	6913.29	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	9/2/2022	ND	19.25	NA	6912.81	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	10/4/2022	ND	19.42	NA	6912.64	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	11/3/2022	ND	19.39	NA	6912.67	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-63	12/6/2022	ND	20.02	NA	6912.04	6932.34	6935.06	3.00	29.22	9.0	29.0
OW-64	4/26/2021	ND	5.51	NA	6939.12	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	5/20/2021	ND	5.31	NA	6939.32	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	6/2/2021	ND	5.73	NA	6938.90	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	9/9/2021	ND	5.17	NA	6939.46	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	12/28/2021	ND	4.98	NA	6939.65	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	1/10/2022	ND	5.03	NA	6939.60	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	2/28/2022	ND	5.25	NA	6939.38	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	3/2/2022	ND	4.96	NA	6939.67	6945.07	6947.40	2.77	24.63	4.0	24.0
OW-64	4/27/2022	ND	5.90	NA	6938.73	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	5/9/2022	ND	5.78	NA	6938.85	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	6/1/2022	ND	5.37	NA	6939.26	6945.07	6947.40	2.77	21.53	4.0	24.0
OW-64	7/7/2022	ND	5.34	NA	6939.29	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	8/9/2022	ND	5.03	NA	6939.60	6945.07	6947.40	2.77	24.58	4.0	24.0
OW-64	9/2/2022	ND	5.43	NA	6939.20	6945.07	6947.40	2.77	21.53	4.0	24.0
OW-64	10/4/2022	ND	5.75	NA	6938.88	6945.07	6947.40	2.77	21.53	4.0	24.0
OW-64	11/3/2022	ND	5.91	NA	6938.72	6945.07	6947.40	2.77	21.53	4.0	24.0
OW-64	12/6/2022	ND	5.20	NA	6939.43	6945.07	6947.40	2.77	21.53	4.0	24.0
OW-65	4/26/2021	25.13	31.07	5.94	6920.10	6951.62	6954.05	2.88	37.37	17.0	37.0
OW-65	5/20/2021	25.28	32.29	7.01	6918.88	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	6/2/2021	24.03	29.78	5.75	6921.39	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	9/7/2021	25.49	31.62	6.13	6919.55	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	12/2/2021	25.22	32.20	6.98	6918.97	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	1/10/2022	25.24	32.23	6.99	6918.94	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	2/28/2022	25.23	32.21	6.98	6918.96	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	3/2/2022	25.20	32.13	6.93	6919.04	6951.62	6954.05	2.88	36.63	17.0	37.0
OW-65	4/5/2022	26.97	31.82	4.85	6919.35	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	5/9/2022	27.21	32.90	5.69	6918.27	6951.62	6954.05	2.88	36.62	17.0	37.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-65	6/2/2022	25.09	32.05	6.96	6919.12	6951.62	6954.05	2.88	36.63	17.0	37.0
OW-65	7/7/2022	28.64	30.17	1.53	6921.00	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	8/9/2022	28.95	29.49	0.54	6921.68	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	9/5/2022	29.20	29.56	0.36	6921.61	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	10/4/2022	29.29	29.56	0.27	6921.61	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	11/3/2022	29.27	29.50	0.23	6921.67	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-65	12/6/2022	29.54	29.76	0.22	6921.41	6951.62	6954.05	2.88	36.62	17.0	37.0
OW-66	9/2/2021	ND	15.66	NA	6904.14	6919.80	6922.35	2.55	NA	10.0	25.0
OW-66	12/1/2021	ND	15.30	NA	6904.50	6919.80	6922.35	2.55	NA	10.0	25.0
OW-66	3/2/2022	ND	15.19	NA	6904.61	6919.80	6922.35	2.55	25.26	10.0	25.0
OW-66	6/2/2022	ND	15.66	NA	6904.14	6919.80	6922.35	2.55	25.20	10.0	25.0
OW-66	9/7/2022	ND	16.26	NA	6903.54	6919.80	6922.35	2.55	25.20	10.0	25.0
OW-66	10/4/2022	ND	16.08	NA	6903.72	6919.80	6922.35	2.55	25.20	10.0	25.0
OW-66	11/3/2022	ND	16.15	NA	6903.65	6919.80	6922.35	2.55	25.20	10.0	25.0
OW-66	12/27/2022	ND	16.45	NA	6903.35	6919.80	6922.35	2.55	25.20	10.0	25.0
OW-67	9/2/2021	ND	9.84	NA	6890.89	6900.73	6903.29	2.56	NA	10.0	25.0
OW-67	12/22/2021	ND	9.84	NA	6890.89	6900.73	6903.29	2.56	NA	10.0	25.0
OW-67	6/2/2022	ND	9.90	NA	6890.83	6900.73	6903.29	2.56	24.87	10.0	25.0
OW-67	9/2/2022	ND	10.03	NA	6890.70	6900.73	6903.29	2.56	24.87	10.0	25.0
OW-67	10/4/2022	ND	10.34	NA	6890.39	6900.73	6903.29	2.56	24.87	10.0	25.0
OW-67	11/3/2022	ND	10.32	NA	6890.41	6900.73	6903.29	2.56	24.87	10.0	25.0
OW-67	12/28/2022	ND	10.14	NA	6890.59	6900.73	6903.29	2.56	24.89	10.0	25.0
OW-68	9/2/2021	ND	11.39	NA	6877.29	6888.68	6891.51	2.83	NA	5.0	25.0
OW-68	12/22/2021	ND	11.27	NA	6877.41	6888.68	6891.51	2.83	NA	5.0	25.0
OW-68	6/2/2022	ND	11.35	NA	6877.33	6888.68	6891.51	2.83	25.37	5.0	25.0
OW-68	9/2/2022	ND	15.69	NA	6872.99	6888.68	6891.51	2.83	25.37	5.0	25.0
OW-68	10/5/2022	ND	15.87	NA	6872.81	6888.68	6891.51	2.83	25.37	5.0	25.0
OW-68	11/3/2022	ND	15.98	NA	6872.70	6888.68	6891.51	2.83	25.37	5.0	25.0
OW-68	12/28/2022	ND	15.83	NA	6872.85	6888.68	6891.51	2.83	25.37	5.0	25.0
OW-70	9/8/2021	ND	0.53	NA	6942.54	6943.07	6945.95	2.88	44.82	25.0	44.7
OW-70	12/16/2021	ND	28.71	NA	6914.36	6943.07	6945.95	2.88	44.82	25.0	44.7
OW-70	3/2/2022	ND	28.76	NA	6914.31	6943.07	6945.95	2.88	44.83	25.0	44.7
OW-70	6/1/2022	ND	29.24	NA	6913.83	6943.07	6945.95	2.88	44.84	25.0	44.7
OW-70	9/7/2022	ND	29.41	NA	6913.66	6943.07	6945.95	2.88	44.84	25.0	44.7
OW-70	10/5/2022	ND	29.53	NA	6913.54	6943.07	6945.95	2.88	44.84	25.0	44.7
OW-70	11/2/2022	ND	29.62	NA	6913.45	6943.07	6945.95	2.88	44.84	25.0	44.7
OW-70	12/14/2022	ND	29.07	NA	6914.00	6943.07	6945.95	2.88	44.84	25.0	44.7
RW-1	4/26/2021	26.61	28.69	2.08	6914.17	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	5/20/2021	26.85	30.03	3.18	6912.83	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	6/1/2021	27.13	30.22	3.09	6912.64	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	9/9/2021	26.33	27.82	1.49	6915.04	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	12/2/2021	26.71	28.78	2.07	6914.08	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	1/10/2022	26.92	34.92	8.00	6907.94	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	2/28/2022	27.00	34.98	7.98	6907.88	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	3/2/2022	26.81	28.83	2.02	6914.03	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	4/27/2022	27.39	27.64	0.25	6915.22	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	5/9/2022	27.56	27.97	0.41	6914.89	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	6/2/2022	27.78	27.90	0.12	6914.96	6942.86	6946.06	3.20	40.25	25.0	40.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
RW-1	7/7/2022	27.98	28.07	0.09	6914.79	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	8/9/2022	28.17	28.23	0.06	6914.63	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	9/5/2022	28.31	28.34	0.03	6914.52	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	10/5/2022	28.37	28.39	0.02	6914.47	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	11/2/2022	28.50	28.52	0.02	6914.34	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-1	12/9/2022	28.47	28.69	0.22	6914.17	6942.86	6946.06	3.20	40.25	25.0	40.0
RW-2R	9/9/2021	19.09	21.75	2.66	6909.29	6931.04	6934.21	3.17	NA	11.5	31.5
RW-2R	12/2/2021	19.33	21.72	2.39	6909.32	6931.04	6934.21	3.17	NA	11.5	31.5
RW-2R	1/10/2022	19.03	21.43	2.40	6909.61	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	2/28/2022	19.09	21.45	2.36	6909.59	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	3/2/2022	19.27	21.67	2.40	6909.37	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	4/27/2022	19.67	21.99	2.32	6909.05	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	5/9/2022	19.81	22.18	2.37	6908.86	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	6/2/2022	20.03	22.38	2.35	6908.66	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	7/7/2022	20.34	22.60	2.26	6908.44	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	8/9/2022	20.52	22.80	2.28	6908.24	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	9/5/2022	20.80	23.03	2.23	6908.01	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	10/5/2022	20.99	23.12	2.13	6907.92	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	11/2/2022	21.11	23.29	2.18	6907.75	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-2R	12/9/2022	21.10	23.28	2.18	6907.76	6931.04	6934.21	3.17	28.33	11.5	31.5
RW-5	4/26/2021	28.39	29.72	1.33	6911.81	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	5/20/2021	28.72	28.86	0.14	6912.67	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	6/1/2021	29.16	29.82	0.66	6911.71	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	9/9/2021	28.30	31.40	3.10	6910.13	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	12/2/2021	28.27	30.64	2.37	6910.89	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	1/10/2022	28.11	30.47	2.36	6911.06	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	2/28/2022	28.06	30.44	2.38	6911.09	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	3/2/2022	28.26	30.61	2.35	6910.92	6941.53	6943.57	2.04	37.46	29.5	39.5
RW-5	4/27/2022	28.60	30.99	2.39	6910.54	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	5/9/2022	28.75	31.22	2.47	6910.31	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	6/2/2022	28.92	31.14	2.22	6910.39	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	7/7/2022	29.13	31.52	2.39	6910.01	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	8/9/2022	29.24	31.49	2.25	6910.04	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	9/5/2022	29.36	31.49	2.13	6910.04	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	10/5/2022	29.45	31.44	1.99	6910.09	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	11/2/2022	29.53	31.43	1.90	6910.10	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-5	12/9/2022	29.51	31.29	1.78	6910.24	6941.53	6943.57	2.04	37.47	29.5	39.5
RW-6	4/26/2021	29.53	29.56	0.03	6912.40	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	5/20/2021	29.56	29.59	0.03	6912.37	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	6/1/2021	30.06	30.19	0.13	6911.77	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	9/9/2021	28.29	31.39	3.10	6910.57	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	12/2/2021	28.35	31.10	2.75	6910.86	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	1/10/2022	28.17	31.05	2.88	6910.91	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	2/28/2022	28.23	30.95	2.72	6911.01	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	3/2/2022	28.33	31.06	2.73	6910.90	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	4/27/2022	28.93	30.47	1.54	6911.49	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	5/9/2022	29.11	30.65	1.54	6911.31	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	6/2/2022	28.30	30.95	2.65	6911.01	6941.96	6944.01	2.05	38.80	28.5	38.5

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
RW-6	7/7/2022	29.42	31.20	1.78	6910.76	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	8/9/2022	29.51	31.35	1.84	6910.61	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	9/5/2022	29.59	31.52	1.93	6910.44	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	10/5/2022	29.68	31.53	1.85	6910.43	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	11/2/2022	29.76	31.54	1.78	6910.42	6941.96	6944.01	2.05	38.80	28.5	38.5
RW-6	12/9/2022	29.70	31.48	1.78	6910.48	6941.96	6944.01	2.05	38.80	28.5	38.5
SMW-2	8/15/2018	ND	22.15	NA	6859.48	6881.63	6883.97	2.34	50.46	34.3	54.3
SMW-2	8/19/2019	ND	22.96	NA	6858.67	6881.63	6883.97	2.34	50.46	34.3	54.3
SMW-2	6/30/2020	ND	21.91	NA	6859.72	6881.63	6883.97	2.34	50.46	34.3	54.3
SMW-2	9/14/2020	ND	22.36	NA	6859.27	6881.63	6883.97	2.34	50.77	34.3	54.3
SMW-2	9/29/2021	ND	22.21	NA	6859.42	6881.63	6883.97	2.34	50.77	34.3	54.3
SMW-2	9/2/2022	ND	22.33	NA	6859.30	6881.63	6883.97	2.34	50.64	34.3	54.3
SMW-2	10/5/2022	ND	22.31	NA	6859.32	6881.63	6883.97	2.34	50.64	34.3	54.3
SMW-4	12/6/2018	ND	27.36	NA	6850.27	6877.63	6879.52	1.89	67.79	51.7	71.7
SMW-4	8/13/2019	ND	27.21	NA	6850.42	6877.63	6879.52	1.89	67.79	51.7	71.7
SMW-4	6/30/2020	ND	27.28	NA	6850.35	6877.63	6879.52	1.89	67.79	51.7	71.7
SMW-4	9/14/2020	ND	27.26	NA	6850.37	6877.63	6879.52	1.89	61.01	51.7	71.7
SMW-4	9/28/2021	ND	27.19	NA	6850.44	6877.63	6879.52	1.89	61.01	51.7	71.7
SMW-4	9/2/2022	ND	26.14	NA	6851.49	6877.63	6879.52	1.89	63.76	51.7	71.7
SMW-4	10/5/2022	ND	26.11	NA	6851.52	6877.63	6879.52	1.89	63.76	51.7	71.7
STP1-NW	4/26/2021	ND	20.84	NA	6883.66	6904.50	6904.47	-0.03	48.46	20.0	50.0
STP1-NW	5/20/2021	ND	22.22	NA	6882.28	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	6/3/2021	ND	22.19	NA	6882.31	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	9/8/2021	ND	21.78	NA	6882.72	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	12/13/2021	ND	21.55	NA	6882.95	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	1/10/2022	ND	20.97	NA	6883.53	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	2/28/2022	ND	21.12	NA	6883.38	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	3/1/2022	ND	21.58	NA	6882.92	6904.50	6904.47	-0.03	47.73	20.0	50.0
STP1-NW	4/27/2022	ND	22.90	NA	6881.60	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	5/5/2022	ND	22.70	NA	6881.80	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	6/2/2022	ND	21.30	NA	6883.20	6904.50	6904.47	-0.03	49.52	20.0	50.0
STP1-NW	7/7/2022	ND	24.69	NA	6879.81	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	8/9/2022	ND	24.22	NA	6880.28	6904.50	6904.47	-0.03	47.75	20.0	50.0
STP1-NW	9/2/2022	ND	20.87	NA	6883.63	6904.50	6904.47	-0.03	49.53	20.0	50.0
STP1-NW	10/5/2022	ND	21.16	NA	6883.34	6904.50	6904.47	-0.03	49.53	20.0	50.0
STP1-NW	11/2/2022	ND	21.29	NA	6883.21	6904.50	6904.47	-0.03	49.53	20.0	50.0
STP1-NW	12/11/2022	ND	20.78	NA	6883.72	6904.50	6904.47	-0.03	49.53	20.0	50.0
STP1-NW	12/15/2022	ND	21.28	NA	6883.22	6904.50	6904.47	-0.03	49.53	20.0	50.0
STP1-SW	4/26/2021	ND	28.98	NA	6883.42	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	5/22/2021	ND	29.72	NA	6882.68	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	6/3/2021	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	9/8/2021	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	12/9/2021	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	1/10/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	2/28/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	3/1/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	4/27/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	5/5/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
STP1-SW	6/2/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	7/7/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	8/9/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	9/2/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	10/5/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	11/2/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
STP1-SW	12/6/2022	ND	Dry	NA	Dry	6912.40	6912.38	-0.02	29.18	15.0	30.0
Sonsela Aquifer											
BW-1C	9/13/2017	ND	10.09	NA	6873.08	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-1C	8/15/2018	ND	10.39	NA	6872.78	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-1C	8/14/2019	ND	9.88	NA	6873.29	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-1C	9/14/2020	ND	11.38	NA	6871.79	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-1C	9/28/2021	ND	11.97	NA	6871.20	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-1C	9/2/2022	ND	11.27	NA	6871.90	6883.17	6885.68	2.51	142.78	125.0	135.0
BW-2C	9/13/2017	ND	18.50	NA	6854.40	6872.90	6875.30	2.40	150.44	139.5	149.5
BW-2C	8/15/2018	ND	18.45	NA	6854.45	6872.90	6875.30	2.40	150.44	139.5	149.5
BW-2C	8/14/2019	ND	18.80	NA	6854.10	6872.90	6875.30	2.40	150.44	139.5	149.5
BW-2C	9/14/2020	ND	18.92	NA	6853.98	6872.90	6875.30	2.40	146.70	139.5	149.5
BW-2C	9/28/2021	ND	18.78	NA	6854.12	6872.90	6875.30	2.40	146.70	139.5	149.5
BW-2C	9/27/2022	ND	18.80	NA	6854.10	6872.90	6875.30	2.40	137.60	139.5	149.5
BW-3C	9/13/2017	ND	5.57	NA	6870.15	6875.72	6877.95	2.23	152.32	144.5	154.5
BW-3C	8/15/2018	ND	5.95	NA	6869.77	6875.72	6877.95	2.23	152.32	144.5	154.5
BW-3C	8/14/2019	ND	5.63	NA	6870.09	6875.72	6877.95	2.23	152.32	144.5	154.5
BW-3C	9/14/2020	ND	6.29	NA	6869.43	6875.72	6877.95	2.23	147.97	144.5	154.5
BW-3C	9/28/2021	ND	6.75	NA	6868.97	6875.72	6877.95	2.23	147.97	144.5	154.5
BW-3C	9/27/2022	ND	6.37	NA	6869.35	6875.72	6877.95	2.23	141.77	144.5	154.5
BW-5C	9/14/2020	ND	1.35	NA	6872.49	6874.22	6876.85	3.01	73.34	64.3	74.3
BW-5C	12/7/2020	ND	1.26	NA	6872.58	6874.22	6876.85	3.01	73.34	64.3	74.3
BW-5C	2/27/2021	ND	1.10	NA	6872.74	6874.22	6876.85	3.01	73.34	64.3	74.3
BW-5C	6/3/2021	ND	1.79	NA	6872.05	6874.22	6876.85	3.01	73.34	64.3	74.3
BW-5C	9/9/2021	ND	2.15	NA	6871.69	6874.22	6876.85	3.01	73.34	64.3	74.3
BW-5C	3/1/2022	ND	0.99	NA	6872.85	6874.22	6876.85	3.01	66.55	64.3	74.3
BW-5C	6/1/2022	ND	0.97	NA	6872.87	6874.22	6876.85	3.01	66.64	64.3	74.3
BW-5C	9/2/2022	ND	1.09	NA	6872.75	6874.22	6876.85	3.01	66.64	64.3	74.3
BW-5C	12/6/2022	ND	1.16	NA	6872.68	6874.22	6876.85	3.01	66.64	64.3	74.3
BW-5C	12/11/2022	ND	1.07	NA	6872.77	6874.22	6876.85	3.01	66.64	64.3	74.3
MW-1	12/5/2018	ND	5.87	NA	6870.76	6876.63	6878.12	1.49	129.34	117.7	127.7
MW-1	8/12/2019	ND	5.45	NA	6871.18	6876.63	6878.12	1.49	129.34	117.7	127.7
MW-1	6/30/2020	ND	5.76	NA	6870.87	6876.63	6878.12	1.49	129.34	117.7	127.7
MW-1	9/14/2020	ND	6.23	NA	6870.40	6876.63	6878.12	1.49	133.81	117.7	127.7
MW-1	9/28/2021	ND	7.78	NA	6868.85	6876.63	6878.12	1.49	133.81	117.7	127.7
MW-1	9/27/2022	ND	6.86	NA	6869.77	6876.63	6878.12	1.49	138.01	117.7	127.7
MW-1	10/5/2022	ND	6.78	NA	6869.85	6876.63	6878.12	1.49	138.01	117.7	127.7
MW-2	12/5/2018	ND	14.72	NA	6863.67	6878.39	6880.30	1.91	135.57	112.0	122.0
MW-2	8/13/2019	ND	7.09	NA	6871.30	6878.39	6880.30	1.91	135.57	112.0	122.0
MW-2	6/30/2020	ND	7.38	NA	6871.01	6878.39	6880.30	1.91	135.57	112.0	122.0
MW-2	9/14/2020	ND	7.83	NA	6870.56	6878.39	6880.30	1.91	136.29	112.0	122.0
MW-2	9/16/2021	ND	8.31	NA	6870.08	6878.39	6880.30	1.91	136.29	112.0	122.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
MW-2	9/28/2022	ND	11.99	NA	6866.40	6878.39	6880.30	1.91	141.02	112.0	122.0
MW-2	10/5/2022	ND	11.97	NA	6866.42	6878.39	6880.30	1.91	141.02	112.0	122.0
MW-4	12/5/2018	ND	6.09	NA	6873.80	6879.89	6881.63	1.74	119.98	101.0	121.0
MW-4	8/13/2019	ND	5.26	NA	6874.63	6879.89	6881.63	1.74	119.98	101.0	121.0
MW-4	6/30/2020	ND	5.76	NA	6874.13	6879.89	6881.63	1.74	119.98	101.0	121.0
MW-4	9/14/2020	ND	6.26	NA	6873.63	6879.89	6881.63	1.74	124.16	101.0	121.0
MW-4	9/16/2021	ND	3.76	NA	6876.13	6879.89	6881.63	1.74	125.26	101.0	121.0
MW-4	9/28/2022	ND	6.61	NA	6873.28	6879.89	6881.63	1.74	126.62	101.0	121.0
MW-4	10/5/2022	ND	6.63	NA	6873.26	6879.89	6881.63	1.74	126.62	101.0	121.0
MW-5	12/6/2018	ND	14.17	NA	6866.03	6880.20	6882.83	2.63	128.20	115.0	125.0
MW-5	8/14/2019	ND	8.42	NA	6871.78	6880.20	6882.83	2.63	128.20	115.0	125.0
MW-5	6/30/2020	ND	8.83	NA	6871.37	6880.20	6882.83	2.63	128.20	115.0	125.0
MW-5	9/14/2020	ND	9.36	NA	6870.84	6880.20	6882.83	2.63	130.37	115.0	125.0
MW-5	9/28/2021	ND	9.90	NA	6870.30	6880.20	6882.83	2.63	130.37	115.0	125.0
MW-5	9/28/2022	ND	9.72	NA	6870.48	6880.20	6882.83	2.63	134.11	115.0	125.0
MW-5	10/5/2022	ND	9.67	NA	6870.53	6880.20	6882.83	2.63	134.11	115.0	125.0
OW-01	12/7/2020	ND	1.45	NA	6864.87	6866.32	6866.62	0.30	99.09	89.3	99.3
OW-01	2/27/2021	ND	1.46	NA	6864.86	6866.32	6866.62	0.30	99.09	89.3	99.3
OW-01	6/1/2021	ND	1.10	NA	6865.22	6866.32	6866.62	0.30	99.09	89.3	99.3
OW-01	9/9/2021	ND	1.48	NA	6864.84	6866.32	6866.62	0.30	99.09	89.3	99.3
OW-01	12/3/2021	ND	1.50	NA	6864.82	6866.32	6866.62	0.30	99.09	89.3	99.3
OW-01	3/1/2022	ND	1.46	NA	6864.86	6866.32	6866.62	0.30	91.61	89.3	99.3
OW-01	6/1/2022	ND	1.10	NA	6865.22	6866.32	6866.62	0.30	91.61	89.3	99.3
OW-01	9/7/2022	ND	1.11	NA	6865.21	6866.32	6866.62	0.30	91.61	89.3	99.3
OW-01	10/4/2022	ND	1.15	NA	6865.17	6866.32	6866.62	0.30	91.61	89.3	99.3
OW-01	11/3/2022	ND	1.12	NA	6865.20	6866.32	6866.62	0.30	91.61	89.3	99.3
OW-01	12/12/2022	ND	1.20	NA	6865.12	6866.32	6866.62	0.30	90.20	89.3	99.3
OW-10	4/26/2021	ND	6.43	NA	6867.24	6873.67	6874.91	1.24	65.06	40.0	60.0
OW-10	5/20/2021	ND	6.35	NA	6867.32	6873.67	6874.91	1.24	65.06	40.0	60.0
OW-10	6/3/2021	ND	6.65	NA	6867.02	6873.67	6874.91	1.24	65.06	40.0	60.0
OW-10	9/9/2021	ND	7.41	NA	6866.26	6873.67	6874.91	1.24	65.06	40.0	60.0
OW-10	12/3/2021	ND	6.71	NA	6866.96	6873.67	6874.91	1.24	65.06	40.0	60.0
OW-10	3/1/2022	ND	6.17	NA	6867.50	6873.67	6874.91	1.24	63.61	40.0	60.0
OW-10	6/1/2022	ND	6.48	NA	6867.19	6873.67	6874.91	1.24	65.22	40.0	60.0
OW-10	9/2/2022	ND	6.59	NA	6867.08	6873.67	6874.91	1.24	65.22	40.0	60.0
OW-10	10/4/2022	ND	6.61	NA	6867.06	6873.67	6874.91	1.24	65.22	40.0	60.0
OW-10	11/3/2022	ND	6.51	NA	6867.16	6873.67	6874.91	1.24	65.22	40.0	60.0
OW-10	12/22/2022	ND	6.72	NA	6866.95	6873.67	6874.91	1.24	65.21	40.0	60.0
OW-11	9/18/2017	ND	16.62	NA	6905.43	6922.05	6923.51	1.46	64.33	43.0	65.0
OW-11	8/15/2018	ND	17.74	NA	6904.31	6922.05	6923.51	1.46	64.33	43.0	65.0
OW-11	8/20/2019	ND	16.24	NA	6905.81	6922.05	6923.51	1.46	64.33	43.0	65.0
OW-11	9/15/2020	ND	17.05	NA	6905.00	6922.05	6923.51	1.46	64.37	43.0	65.0
OW-11	9/9/2021	ND	17.44	NA	6904.61	6922.05	6923.51	1.46	64.33	43.0	65.0
OW-11	9/2/2022	17.42	17.44	0.02	6904.61	6922.05	6923.51	1.46	62.54	43.0	65.0
OW-11	10/4/2022	17.50	17.53	0.03	6904.52	6922.05	6923.51	1.46	62.54	43.0	65.0
OW-11	11/3/2022	17.47	17.51	0.04	6904.54	6922.05	6923.51	1.46	62.54	43.0	65.0
OW-11	12/6/2022	17.37	17.44	0.07	6904.61	6922.05	6923.51	1.46	62.54	43.0	65.0
OW-11	12/11/2022	17.41	17.52	0.11	6904.53	6922.05	6923.51	1.46	62.54	43.0	65.0

TABLE 4-1. FLUID LEVEL MONITORING (2022 AND 5 PREVIOUS DATA POINTS)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location	Date Measured	Depth to Product (ft-bgs)	Depth to Water ¹ (ft-bgs)	Product Thickness (ft)	Water Elevation (ft-msl)	Ground Surface Elevation ² (ft-msl)	Measuring Point Elevation (ft-msl)	Well Casing Height ³ (ft)	Total Depth (ft-bgs)	Depth to Top Screen (ft-bgs)	Depth to Bottom Screen (ft-bgs)
OW-12	6/30/2020	ND	Dry	NA	Dry	6939.57	6940.69	1.12	127.73	117.8	137.8
OW-12	9/14/2020	ND	45.33	NA	6894.24	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-12	11/9/2020	ND	45.37	NA	6894.20	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-12	1/28/2021	ND	45.08	NA	6894.49	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-12	9/28/2021	ND	45.78	NA	6893.79	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-12	12/3/2022	ND	45.93	NA	6893.64	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-12	12/7/2022	ND	54.48	NA	6885.09	6939.57	6940.69	1.12	130.08	117.8	137.8
OW-13	12/7/2020	ND	19.12	NA	6899.83	6918.95	6920.07	1.12	90.53	78.2	98.2
OW-13	2/27/2021	ND	19.26	NA	6899.69	6918.95	6920.07	1.12	98.03	78.2	98.2
OW-13	6/2/2021	ND	19.08	NA	6899.87	6918.95	6920.07	1.12	98.03	78.2	98.2
OW-13	9/23/2021	ND	20.26	NA	6898.69	6918.95	6920.07	1.12	98.03	78.2	98.2
OW-13	12/1/2021	ND	19.78	NA	6899.17	6918.95	6920.07	1.12	98.03	78.2	98.2
OW-13	3/2/2022	ND	19.73	NA	6899.22	6918.95	6920.07	1.12	100.58	78.2	98.2
OW-13	6/1/2022	ND	20.05	NA	6898.90	6918.95	6920.07	1.12	100.58	78.2	98.2
OW-13	9/2/2022	ND	20.68	NA	6898.27	6918.95	6920.07	1.12	100.58	78.2	98.2
OW-13	10/4/2022	ND	20.64	NA	6898.31	6918.95	6920.07	1.12	100.58	78.2	98.2
OW-13	11/3/2022	ND	20.73	NA	6898.22	6918.95	6920.07	1.12	100.58	78.2	98.2
OW-13	12/6/2022	ND	20.76	NA	6898.19	6918.95	6920.07	1.12	100.58	78.2	98.2

-- - Data not available
ft - Foot or feet
ft-bgs - Feet below ground surface
ft-msl - Feet mean sea level
NA - Not applicable
ND - Not detected

Notes:
¹ A negative depth-to-water measurement denotes an artesian well where the water surface comes into the casing above the ground surface - the negative value represents the distance above ground surface.
² Around the first quarter of 2019, some well casing heights were remeasured, but the ground surface elevations were not adjusted to reflect the change.
³ A negative well casing height denotes a flush-mount well where the measuring point is below the ground surface.

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
	Cleanup Levels		5.74	200	10	5	25	7	NA	7	0.0084	70	56
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-01	03/15/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-01	06/15/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-01	09/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-01	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	0.74 J	0.42 J	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-10	03/08/22	--	ND(1)	--	--	0.73 J	0.47 J	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-10	06/08/22	--	ND(1)	--	--	1	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-10	09/27/22	--	ND(1)	--	--	0.55 J	0.43 J	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-10	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-11	09/18/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	08/20/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	0.31
Deep Monitoring Wells	OW-11	09/20/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--	0.13 J
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	1.5
Deep Monitoring Wells	OW-13	12/07/21	--	--	--	--	--	--	--	--	--	--	0.32J/ND(2)U*
Deep Monitoring Wells	OW-13	03/23/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-13	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-13	09/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Deep Monitoring Wells	OW-13	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	ND(1)	--	--	--	--	--	130
Eastern Boundary Wells	OW-12A	03/22/22	--	ND(1)	--	--	ND(1)	0.62 J	--	--	--	--	130
Eastern Boundary Wells	OW-12A	06/28/22	--	ND(2)	--	--	1.1 J	ND(2)	--	--	--	--	25
Eastern Boundary Wells	OW-12A	09/15/22	--	ND(1)	--	--	ND(1)	0.34 J	--	--	--	--	26
Eastern Boundary Wells	OW-12A	12/07/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	710
Eastern Boundary Wells	OW-14	12/30/21	--	--	--	--	--	--	--	--	--	--	8.8J/ND(50)U*
Eastern Boundary Wells	OW-14	03/24/22	--	ND(1)	--	--	0.38 J	ND(1)	--	--	--	--	3.3
Eastern Boundary Wells	OW-14	06/30/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-14	09/30/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-14	12/29/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-29	12/07/21	--	--	--	--	--	--	--	--	--	--	ND(5)
Eastern Boundary Wells	OW-29	03/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-29	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-29	09/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-29	12/27/22	--	ND(2)	--	--	ND(2)	ND(2)	--	--	--	--	ND(2)
Eastern Boundary Wells	OW-30	12/30/21	--	--	--	--	--	--	--	--	--	--	0.76J/ND(5)U*
Eastern Boundary Wells	OW-30	03/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.54 J
Eastern Boundary Wells	OW-30	06/30/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	ND(5)
Eastern Boundary Wells	OW-30	09/30/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.23 J
Eastern Boundary Wells	OW-30	12/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	--	ND(1)	--	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-50	03/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-50	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-50	09/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-50	12/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	--	ND(1)	--	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-52	03/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-52	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-52	09/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-52	12/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	ND(5)	--	--	--	--	--	4.2J/ND(5)U*
Eastern Boundary Wells	OW-54	03/23/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	4.2 J
Eastern Boundary Wells	OW-54	06/15/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	2.4 J
Eastern Boundary Wells	OW-54	09/07/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	2.7 J
Eastern Boundary Wells	OW-54	12/27/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	ND(5)
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	ND(50)	--	--	--	--	--	240
Eastern Boundary Wells	OW-55	03/23/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	250
Eastern Boundary Wells	OW-55	06/15/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	200
Eastern Boundary Wells	OW-55	09/07/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	170
Eastern Boundary Wells	OW-55	12/27/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	250
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	0.62 J	--	--	--	--	--	1.2
Eastern Boundary Wells	OW-56	03/23/22	--	ND(1)	--	--	0.58 J	ND(1)	--	--	--	--	0.22 J
Eastern Boundary Wells	OW-56	06/15/22	--	ND(1)	--	--	0.35 J	ND(1)	--	--	--	--	0.23 J
Eastern Boundary Wells	OW-56	09/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Eastern Boundary Wells	OW-56	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	1.4 J+
Eastern Boundary Wells	OW-66	12/07/21	--	--	--	--	--	--	--	--	--	--	1200
Eastern Boundary Wells	OW-66	03/23/22	--	ND(50)	--	--	27 J	ND(50)	--	--	--	--	1400
Eastern Boundary Wells	OW-66	06/15/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	960
Eastern Boundary Wells	OW-66	09/07/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	1600
Eastern Boundary Wells	OW-66	12/27/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	1900
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	0.85 J	--	--	--	--	--	0.9J/ND(1)U*
Eastern Boundary Wells	OW-70	03/22/22	--	ND(1)	--	--	0.77 J	ND(1)	--	--	--	--	0.36 J
Eastern Boundary Wells	OW-70	06/28/22	--	ND(1)	--	--	0.74 J	ND(1)	--	--	--	--	0.25 J
Eastern Boundary Wells	OW-70	09/15/22	--	ND(1)	--	--	0.49 J	ND(1)	--	--	--	--	0.13 J
Eastern Boundary Wells	OW-70	12/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2- Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
	Cleanup Levels		0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	0.4 J	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	--	--	0.42 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-01	06/15/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-01	09/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-01	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	0.52 J	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	ND(1)	--	0.51 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-10	06/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-10	09/27/22	--	--	--	0.37 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-10	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-11	09/18/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Deep Monitoring Wells	OW-11	08/20/19	ND(2)	ND(1)	ND(1)	0.38	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Deep Monitoring Wells	OW-11	09/20/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	0.3 J	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	--	ND(1)	--	0.69 J	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-13	12/07/21	--	--	--	1.2 J	--	ND(2)	--	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	--	--	0.76 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-13	06/09/22	--	--	--	0.77 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-13	09/07/22	--	--	--	0.83 J	--	ND(1)	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-13	12/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-12A	12/22/21	--	ND(1)	--	0.48 J	--	99	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-12A	03/22/22	--	--	--	0.47J/ND(1)U*	--	120	--	--	--	--	2.4J/ND(10)U*
Eastern Boundary Wells	OW-12A	06/28/22	--	--	--	0.92 J	--	18	--	--	--	--	4.7 J
Eastern Boundary Wells	OW-12A	09/15/22	--	--	--	ND(1)	--	0.44 J	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-12A	12/07/22	--	--	--	ND(5)	--	260	--	--	--	--	55
Eastern Boundary Wells	OW-14	12/30/21	--	--	--	ND(50)	--	ND(50)	--	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	--	--	0.8 J	--	0.47 J	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-14	06/30/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-14	09/30/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-14	12/29/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-29	12/07/21	--	--	--	2.1 J	--	ND(5)	--	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	ND(1)	--	0.53 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-29	06/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-29	09/07/22	--	--	--	0.56 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-29	12/27/22	--	--	--	ND(2)	--	ND(2)	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-30	12/30/21	--	--	--	2 J	--	ND(5)	--	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	--	--	0.42 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-30	06/30/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-30	09/30/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-30	12/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	0.54 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-50	03/08/22	--	ND(1)	--	0.52 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-50	06/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-50	09/07/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-50	12/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	0.54 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-52	03/08/22	--	ND(1)	--	0.51 J	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-52	06/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-52	09/07/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-52	12/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	2.2 J	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-54	03/23/22	--	--	--	2.3 J	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-54	06/15/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-54	09/07/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-54	12/27/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	20 J	--	56	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-55	03/23/22	--	--	--	ND(50)	--	57	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-55	06/15/22	--	--	--	ND(50)	--	58	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-55	09/07/22	--	--	--	ND(50)	--	41 J	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-55	12/27/22	--	--	--	ND(50)	--	76	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	14	--	0.49 J	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-56	03/23/22	--	--	--	6.6	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-56	06/15/22	--	--	--	14	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-56	09/07/22	--	--	--	9.5	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-56	12/28/22	--	--	--	5.2 J+	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-66	12/07/21	--	--	--	20 J	--	360	--	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	--	--	21 J	--	410	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-66	06/15/22	--	--	--	ND(50)	--	270	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-66	09/07/22	--	--	--	ND(50)	--	410	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-66	12/27/22	--	--	--	ND(50)	--	600	--	--	--	--	ND(500)
Eastern Boundary Wells	OW-70	12/22/21	--	ND(1)	--	15	--	0.39J/ND(1)U*	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-70	03/22/22	--	--	--	16	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-70	06/28/22	--	--	--	5.5	--	ND(1)	--	--	--	--	2.6 J
Eastern Boundary Wells	OW-70	09/15/22	--	--	--	6.8	--	ND(1)	--	--	--	--	ND(10)
Eastern Boundary Wells	OW-70	12/14/22	--	--	--	7.2	--	ND(1)	--	--	--	--	ND(10)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
	Cleanup Levels		233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-01	06/15/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-01	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-01	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-10	06/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-10	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-10	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-11	09/18/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Deep Monitoring Wells	OW-11	08/20/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	0.48	ND(1)	ND(1)	ND(1)	ND(3)
Deep Monitoring Wells	OW-11	09/20/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	29	ND(1)	ND(1)	ND(1)	ND(3)
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	ND(10)	17	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	--	--	ND(10)	200	--	--	--	ND(3)
Deep Monitoring Wells	OW-13	12/07/21	--	--	--	--	ND(20)	ND(2)	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	--	--	--	ND(10)	0.29 J	--	--	--	ND(3)
Deep Monitoring Wells	OW-13	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-13	09/07/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Deep Monitoring Wells	OW-13	12/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	5.5J/ND(10)JU*	120	--	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	--	--	--	--	12	190	--	--	--	ND(3)
Eastern Boundary Wells	OW-12A	06/28/22	--	--	--	--	11J/ND(20)JU*	690	--	--	--	ND(6)
Eastern Boundary Wells	OW-12A	09/15/22	--	--	--	--	ND(10)	1100	--	--	--	ND(3)
Eastern Boundary Wells	OW-12A	12/07/22	--	--	--	--	100	960	--	--	--	ND(15)
Eastern Boundary Wells	OW-14	12/30/21	--	--	--	--	ND(500)	25000	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	--	--	--	ND(10)	22000	--	--	--	ND(3)
Eastern Boundary Wells	OW-14	06/30/22	--	--	--	--	ND(500)	22000	--	--	--	ND(150)
Eastern Boundary Wells	OW-14	09/30/22	--	--	--	--	ND(500)	24000	--	--	--	ND(150)
Eastern Boundary Wells	OW-14	12/29/22	--	--	--	--	ND(500)	27000	--	--	--	ND(150)
Eastern Boundary Wells	OW-29	12/07/21	--	--	--	--	ND(50)	ND(5)	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	--	--	--	3 J	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-29	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-29	09/07/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-29	12/27/22	--	--	--	--	ND(20)	ND(2)	--	--	--	ND(6)
Eastern Boundary Wells	OW-30	12/30/21	--	--	--	--	ND(50)	ND(5)	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	--	--	--	3.1 J	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-30	06/30/22	--	--	--	--	ND(50)	ND(5)	--	--	--	ND(15)
Eastern Boundary Wells	OW-30	09/30/22	--	--	--	--	3.2J/ND(10)JU*	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-30	12/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-50	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-50	09/07/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-50	12/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-52	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-52	09/07/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-52	12/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	ND(50)	14	--	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	--	--	--	--	ND(50)	12	--	--	--	ND(15)
Eastern Boundary Wells	OW-54	06/15/22	--	--	--	--	ND(50)	6.3	--	--	--	ND(15)
Eastern Boundary Wells	OW-54	09/07/22	--	--	--	--	ND(50)	7.6	--	--	--	ND(15)
Eastern Boundary Wells	OW-54	12/27/22	--	--	--	--	ND(50)	ND(5)	--	--	--	ND(15)
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	ND(500)	8900	--	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	--	--	--	--	ND(500)	7300	--	--	--	ND(150)
Eastern Boundary Wells	OW-55	06/15/22	--	--	--	--	180J/ND(500)JU*	5700	--	--	--	ND(150)
Eastern Boundary Wells	OW-55	09/07/22	--	--	--	--	ND(500)	6100	--	--	--	ND(150)
Eastern Boundary Wells	OW-55	12/27/22	--	--	--	--	ND(500)	4800	--	--	--	ND(150)
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	4.8J/ND(10)JU*	3.8	--	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	--	--	--	--	17	0.91 J	--	--	--	ND(3)
Eastern Boundary Wells	OW-56	06/15/22	--	--	--	--	5.3J/ND(10)JU*	1	--	--	--	ND(3)
Eastern Boundary Wells	OW-56	09/07/22	--	--	--	--	ND(10)	0.88 J	--	--	--	ND(3)
Eastern Boundary Wells	OW-56	12/28/22	--	--	--	--	ND(10)	1.9 J+	--	--	--	ND(3)
Eastern Boundary Wells	OW-66	12/07/21	--	--	--	--	ND(500)	14000	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	--	--	--	ND(500)	21000	--	--	--	ND(150)
Eastern Boundary Wells	OW-66	06/15/22	--	--	--	--	ND(500)	9600	--	--	--	ND(150)
Eastern Boundary Wells	OW-66	09/07/22	--	--	--	--	ND(500)	27000	--	--	--	ND(150)
Eastern Boundary Wells	OW-66	12/27/22	--	--	--	--	ND(500)	35000	--	--	--	ND(150)
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	5J/ND(10)JU*	10	--	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	--	--	--	--	ND(10)	4.8	--	--	--	ND(3)
Eastern Boundary Wells	OW-70	06/28/22	--	--	--	--	7.5J/ND(10)JU*	1.2	--	--	--	ND(3)
Eastern Boundary Wells	OW-70	09/15/22	--	--	--	--	ND(10)	1	--	--	--	ND(3)
Eastern Boundary Wells	OW-70	12/14/22	--	--	--	--	ND(10)	2.8	--	--	--	ND(3)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
	Cleanup Levels		810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	ND(1)	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	ND(10)	--	ND(1)	--	ND(1)	0.77J/ND(3)U*	ND(1)	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	--	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	ND(1)	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	--	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	--	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-11	09/18/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	08/20/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/20/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-13	12/07/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	ND(2)	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	ND(10)	--	ND(1)	--	ND(1)	2.7J/ND(3)U*	ND(1)	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	ND(20)	--	ND(2)	--	ND(2)	2.2J/ND(6)U*	0.94 J	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Eastern Boundary Wells	OW-14	12/30/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	--	--	ND(500)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-29	12/07/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	ND(2)	--	--	--
Eastern Boundary Wells	OW-30	12/30/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	0.74 J	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	ND(2)	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	ND(10)	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	ND(50)	--	ND(5)	--	1.6 J	3.9J/ND(15)U*	ND(5)	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	--	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	ND(100)	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	ND(500)	--	ND(50)	--	11 J	40J/ND(150)U*	ND(50)	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	2 J	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	ND(10)	--	ND(1)	--	ND(1)	1.6J/ND(3)U*	ND(1)	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	ND(10)	--	ND(1)	--	ND(1)	0.93 J	ND(1)	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-66	12/07/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	ND(500)	--	ND(50)	--	ND(50)	54J/ND(150)U*	ND(50)	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	ND(2)	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	ND(10)	--	ND(1)	--	ND(1)	1.4J/ND(3)U*	ND(1)	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
	Cleanup Levels		197	700	1.39	447	5	143	1,000	660	NA	2,000
Deep Monitoring Wells	OW-01	12/08/21	--	ND(1)	--	--	ND(3)	2.6	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	ND(1)	--	ND(1)	ND(3)	2.3	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-01	06/15/22	--	ND(1)	--	ND(1)	ND(3)	1.9	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-01	09/27/22	--	ND(1)	--	ND(1)	ND(3)	2.7	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-01	12/22/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-10	12/08/21	--	ND(1)	--	--	ND(3)	6.4	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	ND(1)	--	ND(1)	ND(3)	5.7	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-10	06/08/22	--	ND(1)	--	ND(1)	47	7.1	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-10	09/27/22	--	ND(1)	--	ND(1)	ND(3)	3.9	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-10	12/22/22	--	ND(1)	--	ND(1)	ND(3)	4.3	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	08/20/19	ND(1)	0.41	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-11	09/30/21	--	ND(1)	--	--	ND(1)	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(1)	1.9	ND(1)	ND(1)	ND(3)	1.5	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-12	09/30/21	--	0.88 J	--	--	--	2.2	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	5.8	--	ND(1)	ND(3)	1.9	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-13	12/07/21	--	ND(2)	--	--	--	120	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	ND(1)	--	ND(1)	ND(3)	110	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-13	06/09/22	--	ND(1)	--	ND(1)	ND(3)	140	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-13	09/07/22	--	ND(1)	--	ND(1)	ND(3)	120	ND(3)	ND(1)	ND(1)	ND(1)
Deep Monitoring Wells	OW-13	12/28/22	--	ND(1)	--	ND(1)	ND(3)	97	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-12A	12/22/21	--	6.1	--	2.6	ND(3)	ND(1)	1.9 J	0.79 J	15	0.72 J
Eastern Boundary Wells	OW-12A	03/22/22	--	0.56 J	--	0.84 J	ND(3)	ND(1)	ND(3)	ND(1)	13	0.42 J
Eastern Boundary Wells	OW-12A	06/28/22	--	33	--	6.8	ND(6)	ND(2)	ND(6)	2.1	4.4	0.95 J
Eastern Boundary Wells	OW-12A	09/15/22	--	99	--	20	ND(3)	ND(1)	0.89 J	7.9	2.8	1.8
Eastern Boundary Wells	OW-12A	12/07/22	--	310	--	110	ND(15)	ND(5)	19	86	31	21
Eastern Boundary Wells	OW-14	12/30/21	--	1000	--	--	--	710	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	970	--	20	ND(3)	640	2.7 J	56	0.43 J	2.9
Eastern Boundary Wells	OW-14	06/30/22	--	930	--	19 J	ND(150)	610	ND(150)	50	ND(50)	ND(50)
Eastern Boundary Wells	OW-14	09/30/22	--	950	--	26 J	ND(150)	480	16 J	57	ND(50)	11 J
Eastern Boundary Wells	OW-14	12/29/22	--	1100	--	ND(50)	ND(150)	650	ND(150)	58	ND(50)	ND(50)
Eastern Boundary Wells	OW-29	12/07/21	--	ND(5)	--	--	--	3600	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	ND(1)	--	ND(1)	ND(3)	3300	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-29	06/09/22	--	ND(1)	--	ND(1)	39/ND(39)U*	2900	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-29	09/07/22	--	ND(1)	--	ND(1)	ND(3)	3100	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-29	12/27/22	--	ND(2)	--	ND(2)	ND(6)	3200	ND(6)	ND(2)	ND(2)	ND(2)
Eastern Boundary Wells	OW-30	12/30/21	--	ND(5)	--	--	--	1600	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	ND(1)	--	ND(1)	ND(3)	1400	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-30	06/30/22	--	ND(5)	--	ND(5)	ND(15)	1200	ND(15)	ND(5)	ND(5)	ND(5)
Eastern Boundary Wells	OW-30	09/30/22	--	ND(1)	--	ND(1)	ND(3)	900	ND(3)	ND(1)	ND(1)	0.21 J
Eastern Boundary Wells	OW-30	12/29/22	--	ND(1)	--	ND(1)	ND(3)	910	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-50	12/07/21	--	ND(1)	--	ND(1)	ND(3)	55	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-50	03/08/22	--	ND(1)	--	ND(1)	ND(3)	53	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-50	06/09/22	--	ND(1)	--	ND(1)	ND(3)	66	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-50	09/07/22	--	ND(1)	--	ND(1)	ND(3)	56	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-50	12/27/22	--	ND(1)	--	ND(1)	ND(3)	69	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-52	12/07/21	--	ND(1)	--	ND(1)	ND(3)	3.8	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-52	03/08/22	--	ND(1)	--	ND(1)	ND(3)	4.7	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-52	06/09/22	--	ND(1)	--	ND(1)	ND(3)	5.3	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-52	09/07/22	--	ND(1)	--	ND(1)	ND(3)	4.1	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-52	12/27/22	--	ND(1)	--	ND(1)	ND(3)	7.3	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	12	--	ND(5)	ND(15)	1500	ND(15)	1.6 J	ND(5)	1.1 J
Eastern Boundary Wells	OW-54	03/23/22	--	13	--	ND(5)	ND(15)	1300	ND(15)	1.2 J	ND(5)	ND(5)
Eastern Boundary Wells	OW-54	06/15/22	--	5.8	--	ND(5)	ND(15)	1300	ND(15)	ND(5)	ND(5)	ND(5)
Eastern Boundary Wells	OW-54	09/07/22	--	7.3	--	ND(5)	ND(15)	1200	ND(15)	ND(5)	ND(5)	ND(5)
Eastern Boundary Wells	OW-54	12/27/22	--	ND(5)	--	ND(5)	ND(15)	1300	ND(15)	ND(5)	ND(5)	ND(5)
Eastern Boundary Wells	OW-55	12/29/21	--	590	--	25 J	ND(150)	1100	ND(150)	70	ND(50)	7.7 J
Eastern Boundary Wells	OW-55	03/23/22	--	550	--	23 J	ND(150)	970	ND(150)	60	ND(50)	ND(50)
Eastern Boundary Wells	OW-55	06/15/22	--	430	--	26 J	ND(150)	960	ND(150)	50 J	ND(50)	ND(50)
Eastern Boundary Wells	OW-55	09/07/22	--	380	--	19 J	ND(150)	930	ND(150)	41 J	ND(50)	ND(50)
Eastern Boundary Wells	OW-55	12/27/22	--	420	--	ND(50)	ND(150)	790	ND(150)	59	ND(50)	ND(50)
Eastern Boundary Wells	OW-56	12/23/21	--	0.75 J	--	1.8	ND(3)	36	ND(3)	0.27 J	ND(1)	0.33 J
Eastern Boundary Wells	OW-56	03/23/22	--	ND(1)	--	ND(1)	ND(3)	23	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-56	06/15/22	--	ND(1)	--	0.76 J	ND(3)	38	ND(3)	ND(1)	ND(1)	0.16 J
Eastern Boundary Wells	OW-56	09/07/22	--	ND(1)	--	1.2	ND(3)	21	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-56	12/28/22	--	ND(1)	--	3 J+	ND(3)	14 J+	ND(3)	ND(1)	ND(1)	ND(1)
Eastern Boundary Wells	OW-66	12/07/21	--	730	--	--	--	640	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	1000	--	17 J	ND(150)	660	13 J	71	ND(50)	ND(50)
Eastern Boundary Wells	OW-66	06/15/22	--	730	--	17 J	ND(150)	570	16 J	53	ND(50)	ND(50)
Eastern Boundary Wells	OW-66	09/07/22	--	1300	--	ND(50)	ND(150)	740	ND(150)	61	ND(50)	ND(50)
Eastern Boundary Wells	OW-66	12/27/22	--	1900	--	ND(50)	ND(150)	850	ND(150)	74	ND(50)	ND(50)
Eastern Boundary Wells	OW-70	12/22/21	--	0.29 J	--	25	ND(3)	63	1 J	1.6	0.22 J	5.2
Eastern Boundary Wells	OW-70	03/22/22	--	ND(1)	--	20	ND(1)	50	0.97 J	0.97 J	ND(1)	4.3
Eastern Boundary Wells	OW-70	06/28/22	--	ND(1)	--	28	ND(3)	62	1.2 J	1.1	ND(1)	6.5
Eastern Boundary Wells	OW-70	09/15/22	--	ND(1)	--	30	ND(1)	60	1.5 J	1.1	ND(1)	6.5
Eastern Boundary Wells	OW-70	12/14/22	--	ND(1)	--	8.5	ND(3)	58	0.45 J	ND(1)	ND(1)	2.2

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
Cleanup Levels			100	690	5	1,000	100	4.71	5	1,137	2	620
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Deep Monitoring Wells	OW-01	03/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-01	06/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-01	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-01	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Deep Monitoring Wells	OW-10	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-10	06/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-10	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-10	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-11	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-11	08/20/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-11	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/17/20	ND(1)	ND(1)	ND(1)	31	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	6.7
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	6.2	--	--	--	--	--	8.1
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(1)	--	ND(1)	86	--	--	ND(1)	--	ND(1)	78
Deep Monitoring Wells	OW-13	12/07/21	--	--	--	0.51 J	--	--	--	--	--	ND(3)
Deep Monitoring Wells	OW-13	03/23/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-13	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-13	09/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Deep Monitoring Wells	OW-13	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-12A	12/22/21	--	ND(1)	--	67	--	--	--	--	--	980
Eastern Boundary Wells	OW-12A	03/22/22	ND(1)	--	ND(1)	1.3	--	--	6.5	--	ND(1)	220
Eastern Boundary Wells	OW-12A	06/28/22	ND(2)	--	ND(2)	1.5 J	--	--	ND(2)	--	ND(2)	85
Eastern Boundary Wells	OW-12A	09/15/22	ND(1)	--	ND(1)	2.6	--	--	ND(1)	--	ND(1)	110
Eastern Boundary Wells	OW-12A	12/07/22	ND(5)	--	ND(5)	39	--	--	ND(5)	--	ND(5)	1800
Eastern Boundary Wells	OW-14	12/30/21	--	--	--	ND(50)	--	--	--	--	--	ND(75)
Eastern Boundary Wells	OW-14	03/24/22	ND(1)	--	ND(1)	4.2	--	--	ND(1)	--	ND(1)	13
Eastern Boundary Wells	OW-14	06/30/22	ND(50)	--	ND(50)	ND(50)	--	--	ND(50)	--	ND(50)	ND(75)
Eastern Boundary Wells	OW-14	09/30/22	ND(50)	--	ND(50)	ND(50)	--	--	ND(50)	--	ND(50)	ND(75)
Eastern Boundary Wells	OW-14	12/29/22	ND(50)	--	ND(50)	ND(50)	--	--	ND(50)	--	ND(50)	ND(75)
Eastern Boundary Wells	OW-29	12/07/21	--	--	--	ND(5)	--	--	--	--	--	ND(7.5)
Eastern Boundary Wells	OW-29	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-29	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-29	09/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-29	12/27/22	ND(2)	--	ND(2)	ND(2)	--	--	ND(2)	--	ND(2)	ND(3)
Eastern Boundary Wells	OW-30	12/30/21	--	--	--	ND(5)	--	--	--	--	--	ND(7.5)
Eastern Boundary Wells	OW-30	03/24/22	ND(1)	--	ND(1)	0.2 J	--	--	ND(1)	--	ND(1)	0.85 J
Eastern Boundary Wells	OW-30	06/30/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Eastern Boundary Wells	OW-30	09/30/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-30	12/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-50	12/07/21	--	ND(1)	--	ND(1)	--	--	--	--	--	ND(1.5)
Eastern Boundary Wells	OW-50	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-50	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-50	09/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-50	12/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-52	12/07/21	--	ND(1)	--	ND(1)	--	--	--	--	--	ND(1.5)
Eastern Boundary Wells	OW-52	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-52	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-52	09/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-52	12/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	ND(5)	--	ND(5)	--	--	--	--	--	2.1 J
Eastern Boundary Wells	OW-54	03/23/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	2 J
Eastern Boundary Wells	OW-54	06/15/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	2.2 J
Eastern Boundary Wells	OW-54	09/07/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Eastern Boundary Wells	OW-54	12/27/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Eastern Boundary Wells	OW-55	12/29/21	--	ND(50)	--	210	--	--	--	--	--	550
Eastern Boundary Wells	OW-55	03/23/22	ND(50)	--	ND(50)	270	--	--	ND(50)	--	ND(50)	650
Eastern Boundary Wells	OW-55	06/15/22	9.3 J	--	ND(50)	150	--	--	ND(50)	--	ND(50)	520
Eastern Boundary Wells	OW-55	09/07/22	ND(50)	--	ND(50)	190	--	--	ND(50)	--	ND(50)	480
Eastern Boundary Wells	OW-55	12/27/22	ND(50)	--	ND(50)	360	--	--	ND(50)	--	ND(50)	1000
Eastern Boundary Wells	OW-56	12/23/21	--	ND(1)	--	0.22J/ND(1)U*	--	--	--	--	--	3
Eastern Boundary Wells	OW-56	03/23/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-56	06/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-56	09/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-56	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	2.1 J+
Eastern Boundary Wells	OW-66	12/07/21	--	--	--	14000	--	--	--	--	--	7300
Eastern Boundary Wells	OW-66	03/23/22	ND(50)	--	ND(50)	24000	--	--	ND(50)	--	ND(50)	11000
Eastern Boundary Wells	OW-66	06/15/22	ND(50)	--	ND(50)	11000	--	--	ND(50)	--	ND(50)	5800
Eastern Boundary Wells	OW-66	09/07/22	ND(50)	--	ND(50)	31000	--	--	ND(50)	--	ND(50)	13000
Eastern Boundary Wells	OW-66	12/27/22	ND(50)	--	ND(50)	45000	--	--	ND(50)	--	ND(50)	20000
Eastern Boundary Wells	OW-70	12/22/21	--	ND(1)	--	0.33J/ND(1)U*	--	--	--	--	--	2.8
Eastern Boundary Wells	OW-70	03/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	1.6
Eastern Boundary Wells	OW-70	06/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-70	09/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Eastern Boundary Wells	OW-70	12/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
Cleanup Levels			5.74	200	10	5	25	7	NA	7	0.0084	70	56
Evaporation Ponds	EP-2	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-2	06/21/21	ND(2)	ND(2)	0.71 J	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)
Evaporation Ponds	EP-2	12/15/21	--	--	--	--	--	--	--	--	--	--	0.29J/ND(2)U*
Evaporation Ponds	EP-2	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	EP-2	09/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-3	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	0.32 J
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-4	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-5	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)
Evaporation Ponds	EP-5	12/15/21	--	--	--	--	--	--	--	--	--	--	0.68J/ND(5)U*
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-6	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)
Evaporation Ponds	EP-6	12/15/21	--	--	--	--	--	--	--	--	--	--	0.28J/ND(2)U*
Evaporation Ponds	EP-6	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-7	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	1.2 J+
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(5)	ND(1) UJ	ND(1)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	--	--	--	--	--	--	--	1.8 J
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)
Evaporation Ponds	EP-9	06/21/21	ND(2)	ND(2)	ND(4)	0.53 J+	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	1.2 J+
Evaporation Ponds	EP-9	12/15/21	--	--	--	--	--	--	--	--	--	--	1.6J/ND(2)U*
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(5)	ND(1) UJ	ND(1)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(5)	ND(1) UJ	ND(1)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(5)	ND(1) UJ	ND(1)
Evaporation Ponds	EP-12B	06/21/21	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(2)	ND(2)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	--	--	--	--	--	--	--	--	0.16J/ND(1)U*
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	MW-1	09/13/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	12/06/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	08/12/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/22/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	MW-2	09/13/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	12/06/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	08/13/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/18/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	MW-4	09/13/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	12/06/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	08/13/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	09/18/20	ND(1) UJ	ND(1) UJ	ND(2) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(2) UJ	ND(1) UJ	ND(1) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	MW-5	09/17/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	12/06/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/21/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	OW-67	09/17/21	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1) UJ
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.14 J
Land Treatment Unit Wells	OW-67	09/20/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	OW-67	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Land Treatment Unit Wells	OW-68	09/17/21	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	0.37 J	ND(2)	ND(1)	0.58J/ND(1)U*
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2-Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
	Cleanup Levels		0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Evaporation Ponds	EP-2	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-2	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	3.2J/ND(20)U*
Evaporation Ponds	EP-2	12/15/21	--	--	--	--	--	ND(2)	--	--	--	--	ND(20)
Evaporation Ponds	EP-2	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	EP-2	09/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-3	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	4J/ND(20)U*
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-4	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(20)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-5	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	2.8J/ND(20)U*
Evaporation Ponds	EP-5	12/15/21	--	--	--	--	--	ND(5)	--	--	--	--	ND(50)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-6	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(20)
Evaporation Ponds	EP-6	12/15/21	--	--	--	--	--	ND(2)	--	--	--	--	ND(20)
Evaporation Ponds	EP-6	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-7	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	16J/ND(20)U*
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(5) UJ	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1) UJ	ND(1)	ND(1)	ND(25)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	--	--	ND(2)	--	--	--	--	13 J
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(25)
Evaporation Ponds	EP-9	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	18J/ND(20)U*
Evaporation Ponds	EP-9	12/15/21	--	--	--	--	--	ND(2)	--	--	--	--	16 J
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(5) UJ	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1) UJ	ND(1)	ND(1)	ND(25)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(5) UJ	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1) UJ	ND(1)	ND(1)	ND(25)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(5) UJ	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(25)
Evaporation Ponds	EP-12B	06/21/21	ND(4)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(4)	ND(20)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	--	--	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-1	09/13/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-1	08/12/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-2	09/13/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-2	08/13/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-4	09/13/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-4	08/13/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(2) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(2) UJ	ND(10) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-5	09/17/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-5	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-67	09/17/21	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-67	09/20/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-67	12/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-68	09/17/21	ND(2)	ND(1)	ND(1)	0.3 J	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(2)	2J/ND(10)U*
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
	Cleanup Levels		233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Evaporation Ponds	EP-2	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	ND(25)	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-2	06/21/21	ND(2)	ND(20)	ND(2)	ND(20)	ND(20)	0.48 J	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-2	12/15/21	--	--	--	ND(20)	10J/ND(20)U*	ND(2)	--	--	--	ND(6)
Evaporation Ponds	EP-2	06/24/22	--	--	--	--	10 JB	ND(1)	--	--	--	ND(3)
Evaporation Ponds	EP-2	09/09/22	--	--	--	--	15 JB	ND(1)	--	--	--	ND(3)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	ND(25)	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-3	06/21/21	ND(2)	ND(20)	ND(2)	ND(20)	17J/ND(20)U*	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	ND(25)	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-4	06/21/21	ND(2)	ND(20)	ND(2)	ND(20)	15J/ND(20)U*	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	ND(25)	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-5	06/21/21	ND(2)	ND(20)	ND(2)	ND(20)	14J/ND(20)U*	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-5	12/15/21	--	--	--	ND(50)	21J/ND(50)U*	ND(5)	--	--	--	ND(15)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	ND(25)	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-6	06/21/21	ND(2)	ND(20)	ND(2)	ND(20)	ND(20)	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-6	12/15/21	--	--	--	ND(20)	ND(20)	ND(2)	--	--	--	ND(6)
Evaporation Ponds	EP-6	06/24/22	--	--	--	--	23 JB	ND(1)	--	--	--	ND(3)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	44.6	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-7	06/21/21	ND(2)	ND(20)	ND(2)	3.6 J	31 JB	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1)	ND(25)	ND(1) UJ	ND(25)	ND(25)	ND(1)	--	ND(1) UJ	ND(5) UJ	ND(1)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	ND(20)	120	ND(2)	--	--	--	4 J
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1)	ND(25)	ND(1)	ND(25)	42.2	ND(1)	--	ND(1)	ND(5)	ND(1)
Evaporation Ponds	EP-9	06/21/21	ND(2)	ND(20)	ND(2)	3.6 J+	37 JB	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-9	12/15/21	--	--	--	ND(20)	110	ND(2)	--	--	--	2.2 J
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(1)	ND(25)	ND(1) UJ	ND(25)	36.1	ND(1)	--	ND(1) UJ	ND(5) UJ	ND(1)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(1)	ND(25)	ND(1) UJ	ND(25)	37.4	ND(1)	--	ND(1) UJ	ND(5) UJ	ND(1)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(1)	ND(25)	ND(1) UJ	ND(25)	ND(25)	ND(1)	--	ND(1) UJ	ND(5) UJ	ND(1)
Evaporation Ponds	EP-12B	06/21/21	ND(2)	ND(20)	ND(2)	2.3 J	14J/ND(20)U*	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	--	--	6.7J/ND(10)U*	ND(1)	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	--	--	3.4 J	ND(1)	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	--	--	4.2J/ND(10)U*	ND(1)	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	--	--	8.7J/ND(10)U*	ND(1)	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	--	--	14	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	MW-1	09/13/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-1	12/06/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-1	08/12/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-1	09/22/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	--	--	--	3.3J/ND(10)U*	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	MW-2	09/13/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-2	12/06/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-2	08/13/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-2	09/18/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	MW-4	09/13/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-4	12/06/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-4	08/13/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-4	09/18/20	ND(1) UJ	ND(10) UJ	ND(1) UJ	ND(10) UJ	ND(10) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(3) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	MW-5	09/17/18	ND(1)	ND(10)	ND(1)	ND(10)	0.99	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-5	12/06/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-5	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-5	09/21/20	ND(1)	ND(10)	ND(1)	ND(10)	13 JB	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	OW-67	09/17/21	ND(1)	ND(10)	ND(1)	ND(10)	4.7J/ND(10)U*	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	OW-67	09/20/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	OW-67	12/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	OW-68	09/17/21	ND(1)	ND(10)	ND(1)	ND(10)	5.2J/ND(10)U*	0.78J/ND(1)U*	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	5.9J/ND(10)U*	8.2	--	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
Cleanup Levels			810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Evaporation Ponds	EP-2	12/21/20	5.75	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-2	06/21/21	ND(20)	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-2	12/15/21	ND(20)	--	--	--	ND(2)	ND(6)	--	--	--	--
Evaporation Ponds	EP-2	06/24/22	1.3 J	--	ND(1)	--	ND(1)	0.76J/ND(3)U*	ND(1)	--	--	--
Evaporation Ponds	EP-2	09/09/22	2.2 J	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	1.54	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-3	06/21/21	ND(20)	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	1.06	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-4	06/21/21	1.3 J	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-5	06/21/21	ND(20)	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-5	12/15/21	ND(50)	--	--	--	ND(5)	3.1 J	--	--	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-6	06/21/21	ND(20)	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-6	12/15/21	ND(20)	--	--	--	ND(2)	1.5 J	--	--	--	--
Evaporation Ponds	EP-6	06/24/22	ND(10)	--	ND(1)	--	ND(1)	1.4J/ND(3)U*	ND(1)	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	3.01	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-7	06/21/21	2 J+	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	2.41	ND(1)	ND(5)	ND(1) UJ	ND(5)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	2.9 J	--	--	--	ND(2)	62	--	--	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.67	ND(1)	ND(5)	ND(1)	ND(5) UJ
Evaporation Ponds	EP-9	06/21/21	1.3 J+	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-9	12/15/21	ND(20)	--	--	--	ND(2)	35	--	--	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	2.27	ND(1)	ND(1) UJ	ND(1)	ND(1)	11.1	ND(1)	ND(5)	ND(1) UJ	ND(5)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(1)	ND(1)	ND(1) UJ	ND(1)	ND(1)	4.2	ND(1)	ND(5)	ND(1) UJ	ND(5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	1.21	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1) UJ	ND(5)
Evaporation Ponds	EP-12B	06/21/21	ND(20)	ND(2)	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	ND(10)	--	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(10)	--	ND(1)	--	ND(1)	0.69J/ND(3)U*	ND(1)	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(10)	--	ND(1)	--	ND(1)	0.61J/ND(3)U*	ND(1)	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	12/06/18	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/22/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	12/06/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/18/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	12/06/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	09/18/20	ND(10) UJ	ND(1) UJ	ND(1) UJ	ND(2) UJ	ND(1) UJ	ND(3) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	12/06/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/21/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	--	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	2.3 J	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
	Cleanup Levels		197	700	1.39	447	5	143	1,000	660	NA	2,000
Evaporation Ponds	EP-2	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-2	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	0.85 J	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-2	12/15/21	--	ND(2)	--	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-2	06/24/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-2	09/09/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-3	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	0.83 J	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-4	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	0.84 J	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-5	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-5	12/15/21	--	ND(5)	--	ND(5)	ND(15)	ND(5)	ND(15)	ND(5)	ND(5)	ND(5)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-6	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	0.87 J	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-6	12/15/21	--	ND(2)	--	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-6	06/24/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-7	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1) UJ	ND(5) UJ	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	ND(2)	--	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1)	ND(1)	ND(5)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-9	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-9	12/15/21	--	ND(2)	--	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(1) UJ	ND(5) UJ	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	EP-12B	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	ND(1)	--	--	ND(3)	ND(1)	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	0.41	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	08/12/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-1	09/29/21	--	ND(1)	--	--	ND(3)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/18/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-2	09/17/21	--	ND(1)	--	--	ND(3)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-4	09/18/20	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(3) UJ	ND(1) UJ	ND(3) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	ND(1)	--	--	ND(3)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/17/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	MW-5	09/29/21	--	ND(1)	--	--	ND(3)	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-67	09/17/21	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(3)	34 J	ND(3)	ND(1) UJ	ND(1)	ND(1)
Land Treatment Unit Wells	OW-67	12/23/21	--	ND(1)	--	--	--	40	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	ND(1)	--	ND(1)	ND(3)	36	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-67	09/20/22	--	ND(1)	--	ND(1)	ND(3)	33	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-67	12/28/22	--	ND(1)	--	ND(1)	ND(3)	26	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	OW-68	09/17/21	ND(1)	0.85 J	ND(1)	ND(1)	ND(3)	1.3 J	ND(3)	0.3 J	ND(1)	ND(1)
Land Treatment Unit Wells	OW-68	12/23/21	--	5.8	--	--	--	0.83 J	--	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
	Cleanup Levels		100	690	5	1,000	100	4.71	5	1,137	2	620
Evaporation Ponds	EP-2	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-2	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-2	12/15/21	--	--	--	ND(2)	--	--	--	--	--	ND(3)
Evaporation Ponds	EP-2	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	0.66J/ND(1.5)U*
Evaporation Ponds	EP-2	09/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-3	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-4	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-5	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-5	12/15/21	--	--	--	ND(5)	--	--	--	--	--	ND(7.5)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-6	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-6	12/15/21	--	--	--	ND(2)	--	--	--	--	--	ND(3)
Evaporation Ponds	EP-6	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	0.65J/ND(1.5)U*
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-7	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	1.1 J+
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1) UJ	ND(1) UJ	ND(1)	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(10) UJ
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	ND(2)	--	--	--	--	--	ND(3)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1) UJ	ND(1)	ND(10)
Evaporation Ponds	EP-9	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	1.2 J+
Evaporation Ponds	EP-9	12/15/21	--	--	--	ND(2)	--	--	--	--	--	1.7 J
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(1) UJ	ND(1) UJ	ND(1)	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(10) UJ
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(1) UJ	ND(1) UJ	ND(1)	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(10) UJ
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(1) UJ	ND(1) UJ	ND(1)	ND(1) UJ	ND(1)	ND(5) UJ	ND(1)	ND(1)	ND(1)	ND(10) UJ
Evaporation Ponds	EP-12B	06/21/21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(3)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-1	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-1	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-1	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	MW-1	09/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-2	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-2	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-2	09/18/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	MW-2	09/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-4	09/13/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-4	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-4	09/18/20	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1.5) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	MW-4	09/30/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-5	09/17/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-5	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-5	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	MW-5	09/29/22	ND(1)	--	ND(1)	--	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	OW-67	09/17/21	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	OW-67	06/16/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	OW-67	09/20/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	OW-67	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	OW-68	09/17/21	ND(1)	ND(1)	ND(1)	ND(1) UJ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.87 J
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	1 JB	--	--	--	--	--	4

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
	Cleanup Levels		5.74	200	10	5	25	7	NA	7	0.0084	70	56
Land Treatment Unit Wells	OW-68	06/16/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	2.1
Land Treatment Unit Wells	OW-68	09/20/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	1.9
Land Treatment Unit Wells	OW-68	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	1.4
Land Treatment Unit Wells	SMW-2	09/18/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.21 J
Land Treatment Unit Wells	SMW-4	09/12/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	ND(10)	--	ND(10)	4.9 J	ND(10)	--	--	--	ND(10)	410
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	ND(10)	--	--	5.5 J	ND(10)	--	--	--	--	350
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	0.8 J	--	5.7	74	310	--	--	--	ND(1)	0.15J/ND(1)U*
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	1.1	--	--	100	290	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	ND(5)	--	ND(5)	54	81	--	--	--	ND(5)	39
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	ND(5)	--	--	41	64	--	--	--	--	70
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	ND(10)	--	ND(10)	17	ND(10)	--	--	--	ND(10)	870
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	ND(10)	--	--	12	ND(10)	--	--	--	--	930
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	ND(10)	--	3.2 J	11	ND(10)	--	--	--	ND(10)	140
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	ND(10)	--	--	14	ND(10)	--	--	--	--	220
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	120
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	ND(1)	--	ND(1)	2.6	ND(1)	--	--	--	ND(1)	1.1
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	0.61 J	--	--	4.4	ND(1)	--	--	--	--	22
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	0.95 J	--	--	4.7	ND(1)	--	--	--	--	6.5
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	ND(5)	--	--	17	ND(5)	--	--	--	--	12
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	ND(5)	--	--	9.1	ND(5)	--	--	--	--	27
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	ND(10)	--	3 J	5.5 J	ND(10)	--	--	--	ND(10)	370
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	ND(10)	--	--	7.5 J	ND(10)	--	--	--	--	830
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	ND(10)	--	2.6 J	ND(10)	ND(10)	--	--	--	ND(10)	41
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	38
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	43
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	44
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	39
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	ND(10)	--	ND(10)	20	4.6 J	--	--	--	ND(10)	2.2J/ND(10)U*
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	ND(10)	--	--	13	6.1J/ND(10)U*	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	ND(10)	--	2.4 J	95	55	--	--	--	ND(10)	1.4 J
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	ND(10)	--	--	51	9.2J/ND(10)U*	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2- Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
Cleanup Levels			0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Land Treatment Unit Wells	OW-68	06/16/22	--	--	--	ND(1)	--	0.27 J	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-68	09/20/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	OW-68	12/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	SMW-2	09/18/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	ND(10)	ND(10)	4.7 J	ND(10)	11	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	--	5.1 J	--	16	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	ND(1)	40	0.38 J	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	--	57	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	ND(5)	ND(5)	2.7 J	1.7 J	4.3 J	--	--	ND(5)	--	ND(50)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	--	2.8 J	--	8.3	--	--	--	--	ND(50)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	ND(10)	ND(10)	3.9 J	ND(10)	210	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	--	4.1 J	--	220	--	--	--	--	21J/ND(100)U*
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	ND(10)	ND(10)	4.3 J	ND(10)	33	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	--	4.3 J	--	46	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	--	ND(10)	--	25	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	--	ND(1)	--	0.61 J	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	ND(10)	ND(10)	ND(10)	95	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	--	4.2 J	--	210	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	ND(10)	ND(10)	ND(10)	11	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	--	ND(10)	--	12	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	--	ND(10)	--	16	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	--	ND(10)	--	15	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	--	ND(10)	--	15	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	ND(10)	5.4	ND(10)	ND(10)	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	--	5.9 J	--	--	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	--	12	ND(10)	ND(10)	--	--	ND(10)	--	ND(100)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	--	5.8	--	ND(10)	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
	Cleanup Levels		233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Land Treatment Unit Wells	OW-68	06/16/22	--	--	--	--	9.8J/ND(10)U*	7	--	--	--	ND(3)
Land Treatment Unit Wells	OW-68	09/20/22	--	--	--	--	7.2J/ND(10)U*	7.7	--	--	--	ND(3)
Land Treatment Unit Wells	OW-68	12/28/22	--	--	--	--	ND(10)	6.8	--	--	--	ND(3)
Land Treatment Unit Wells	SMW-2	09/18/18	ND(1)	ND(10)	ND(1)	ND(10)	6.7	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	0.23	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(1)	ND(10)	ND(1)	ND(10)	2.8J/ND(10)U*	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(1)	ND(10)	ND(1)	ND(10)	4.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	--	--	3.7J/ND(10)U*	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	ND(100)	--	ND(100)	ND(100)	6800	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	--	--	ND(100)	6200	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	ND(10)	--	ND(10)	11 JB	69	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	--	--	ND(10)	78	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	ND(50)	--	ND(50)	ND(50)	190	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	--	--	ND(50)	500	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	ND(100)	--	ND(100)	ND(100)	6000	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	--	--	ND(100)	6300	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	ND(100)	--	ND(100)	ND(100)	4300	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	--	--	ND(100)	5300	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	--	--	ND(100)	3500	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	ND(10)	--	ND(10)	ND(10)	16	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	--	--	ND(10)	160	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	--	--	4J/ND(10)U*	66	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	--	--	ND(50)	400	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	--	--	--	ND(50)	450	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	ND(100)	--	ND(100)	ND(100)	1500	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	--	--	ND(100)	4500	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	ND(100)	--	ND(100)	ND(100)	1900	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	--	--	ND(100)	1800	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	--	--	ND(100)	2100	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	--	--	ND(100)	1800	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	--	--	ND(100)	2600	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	ND(100)	--	ND(100)	ND(100)	5400	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	--	--	ND(100)	4700	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	ND(100)	--	ND(100)	ND(100)	700	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	--	--	ND(100)	96	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
Cleanup Levels			810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Land Treatment Unit Wells	OW-68	06/16/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-68	09/20/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	ND(10)	ND(20)	ND(10)	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(100)	--	ND(10)	--	5.7 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	ND(1)	ND(2)	0.94 J	ND(3)	2.3	--	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(10)	--	ND(1)	--	1.4	1.9J/ND(3)U*	3.6	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	ND(5)	ND(10)	1.5 J	2.9 J	26	--	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(50)	--	ND(5)	--	2.1 J	3.9J/ND(15)U*	20	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	ND(10)	ND(20)	4.1 J	ND(30)	7.2 J	--	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(100)	--	ND(10)	--	4 J	27J/ND(30)U*	6.2 J	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	ND(10)	ND(20)	2.5 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	ND(100)	--	ND(10)	--	3.5 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(100)	--	ND(10)	--	ND(10)	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	ND(1)	ND(2)	ND(1)	0.46J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(10)	--	ND(1)	--	ND(1)	0.78J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-16	12/06/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	ND(10)	ND(20)	4.9 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	ND(100)	--	ND(10)	--	7.2 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	ND(10)	ND(20)	ND(10)	ND(30)	5.5 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(100)	--	ND(10)	--	1.9 J	ND(30)	4.6 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(100)	--	ND(10)	--	ND(10)	ND(30)	5.7 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	ND(100)	--	ND(10)	--	ND(10)	ND(30)	8.7 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(100)	--	ND(10)	--	ND(10)	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	ND(10)	ND(20)	ND(10)	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(100)	--	ND(10)	--	ND(10)	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	ND(10)	ND(20)	1.8 J	ND(30)	18	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(100)	--	ND(10)	--	ND(10)	9.9J/ND(30)U*	8 J	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
	Cleanup Levels		197	700	1.39	447	5	143	1,000	660	NA	2,000
Land Treatment Unit Wells	OW-68	06/16/22	--	5	--	1.4	ND(3)	0.71 J	0.67 J	2.3	0.29 J	0.65 J
Land Treatment Unit Wells	OW-68	09/20/22	--	4.7	--	1.2	ND(3)	0.6 J	0.66 J	2.2	0.24 J	0.6 J
Land Treatment Unit Wells	OW-68	12/28/22	--	3.9	--	1.4	ND(3)	ND(1)	ND(3)	2.2	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	11	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	12	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	13	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-2	09/30/21	--	ND(1)	--	--	--	14	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	ND(1)	--	0.27 J	ND(3)	9.3	ND(3)	ND(1)	ND(1)	0.2 J
Land Treatment Unit Wells	SMW-4	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Land Treatment Unit Wells	SMW-4	09/29/21	--	ND(1)	--	--	--	ND(1)	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	670	--	35	ND(30)	90	14 J	81	3.9 J	7.5 J
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	580	--	28	ND(30)	110	11 J	68	2.7 J	4.2 J
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	ND(1)	--	0.91 J	0.85 J	35	ND(3)	0.2 J	ND(1)	0.18 J
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	ND(1)	--	ND(1)	1.1 J	53	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	33	--	2.4 J	ND(15)	860	1.4 J	3.2 J	1.2 J	1.4 J
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	47	--	2.3 J	ND(15)	850	ND(15)	3.1 J	1.3 J	ND(5)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	1700	--	62	ND(30)	8 J	12 J	110	8 J	5.7 J
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	1600	--	58	5.6 J	9.6 J	11 J	100	7.7 J	5.7 J
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	190	--	7 J	ND(30)	39	ND(30)	9.5 J	ND(10)	3.3 J
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	450	--	16	ND(30)	24	5.3 J	29	ND(10)	4.4 J
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	300	--	15	ND(30)	19	ND(30)	29	ND(10)	5.7 J
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	3.6	--	ND(1)	ND(3)	4	ND(3)	0.28 J	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	31	--	1.6	ND(3)	3.3	0.29 J	3	0.21 J	ND(1)
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	12	--	0.48 J	ND(3)	3.5	ND(3)	1.1	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	9.1	--	1.7 J	ND(15)	6.6	ND(15)	1.4 J	ND(5)	ND(5)
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	76	--	3.2 J	ND(15)	11	ND(15)	6.5	ND(5)	ND(5)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	460	--	30	ND(30)	4300	6.9 J	69	3.6 J	4.6 J
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	1400	--	55	ND(30)	4800	16 J	140	5 J	5.5 J
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	63	--	5.9 J	ND(30)	130	4.1 J	10	3.3 J	3.2 J
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	42	--	4.4 J	ND(30)	110	3.5 J	6.6 J	2.2 J	1.7 J
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	51	--	5 J	ND(30)	130	3.7 J	5.6 J	2.7 J	2.6 J
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	49	--	3.7 J	ND(30)	130	3.3 J	4.9 J	2.3 J	2.2 J
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	47	--	ND(10)	ND(30)	170	ND(30)	5.6 J	ND(10)	ND(10)
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	280	--	22	ND(30)	81	9 J	42	2.4 J	6.8 J
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	250	--	19	ND(30)	79	7.7 J	34	ND(10)	4.6 J
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	ND(10)	--	4.3 J	ND(30)	500	ND(30)	2.2 J	ND(10)	1.7 J
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	ND(10)	--	ND(10)	ND(30)	180	ND(30)	ND(10)	ND(10)	ND(10)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
Cleanup Levels			100	690	5	1,000	100	4.71	5	1,137	2	620
Land Treatment Unit Wells	OW-68	06/16/22	0.14J/ND(1)U*	--	ND(1)	1/ND(1)U*	--	--	ND(1)	--	ND(1)	4.1 JB
Land Treatment Unit Wells	OW-68	09/20/22	ND(1)	--	ND(1)	0.8 J	--	--	ND(1)	--	ND(1)	3.7
Land Treatment Unit Wells	OW-68	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	4
Land Treatment Unit Wells	SMW-2	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	SMW-2	09/30/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Land Treatment Unit Wells	SMW-4	09/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	1.7 J	ND(10)	ND(10)	250	--	--	ND(10)	--	34	1000
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(10)	--	ND(10)	340	--	--	3 J	--	34	820
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	15	--	1	ND(1.5)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(1)	--	0.36 J	ND(1)	--	--	23	--	0.75 J	ND(1.5)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	ND(5)	ND(5)	ND(5)	2.9J/ND(5)U*	--	--	3.3 J	--	ND(5)	52
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(5)	--	ND(5)	6.1	--	--	2.5 J	--	ND(5)	88
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(10)	ND(10)	ND(10)	200	--	--	ND(10)	--	12	6700
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(10)	--	ND(10)	220	--	--	ND(10)	--	8 J	6700
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	ND(10)	ND(10)	ND(10)	170	--	--	ND(10)	--	20	910
Marketing Tank Farm Wells	MKTF-11	03/15/22	ND(10)	--	ND(10)	320	--	--	ND(10)	--	16	1300
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(10)	--	ND(10)	96	--	--	ND(10)	--	21	580
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(1)	--	ND(1)	1.3	--	--	ND(1)	--	0.65 J	6.7
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	0.93 J	2.2
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(5)	--	ND(5)	1.4 J	--	--	ND(5)	--	2 J	5.6 J
Marketing Tank Farm Wells	MKTF-16	12/06/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	1.4 J	ND(10)	ND(10)	5800	--	--	ND(10)	--	ND(10)	2300
Marketing Tank Farm Wells	MKTF-17R	03/15/22	2.6 J	--	ND(10)	22000	--	--	ND(10)	--	4.4 J	6800
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	ND(10)	ND(10)	ND(10)	800	--	--	ND(10)	--	ND(10)	310
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(10)	--	ND(10)	630	--	--	ND(10)	--	ND(10)	300
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(10)	--	ND(10)	770	--	--	ND(10)	--	ND(10)	440
Marketing Tank Farm Wells	MKTF-18R	09/13/22	ND(10)	--	ND(10)	570	--	--	ND(10)	--	ND(10)	430
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(10)	--	ND(10)	410	--	--	ND(10)	--	ND(10)	340
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	ND(10)	ND(10)	ND(10)	18	--	--	ND(10)	--	36	7.7 J
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(10)	--	ND(10)	19	--	--	3.2 J	--	25	ND(15)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	ND(10)	ND(10)	ND(10)	2.1 J	--	--	11	--	14	ND(15)
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(10)	--	ND(10)	ND(10)	--	--	5.7 J	--	7.1 J	ND(15)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
Cleanup Levels			5.74	200	10	5	25	7	NA	7	0.0084	70	56
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	ND(1)	--	ND(1)	1.2	0.34 J	--	--	--	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	ND(1)	--	--	0.86 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	ND(1)	--	--	1.6	0.87 J	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	ND(1)	--	--	1.6	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	ND(1)	--	--	1.9	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	ND(1)	--	ND(1)	ND(1)	ND(1)	--	--	--	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	ND(1)	--	ND(1)	0.58 J	ND(1)	--	--	--	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	ND(1)	--	--	0.63 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	ND(1)	--	--	0.94 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	ND(1)	--	--	0.9 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	ND(1)	--	--	0.76 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	ND(1)	--	0.22 J	33	1.6	--	--	--	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	ND(1)	--	--	25	1.3 JB	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	ND(1)	--	--	18	1	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	ND(1)	--	--	21	1.4	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	ND(1)	--	--	24	1.4	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	2.3 J	--	2.4 J	38	49	--	--	--	ND(5)	0.67J/ND(5)U*
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	2.3 J	--	--	27	34	--	--	--	--	ND(5)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	2 J	--	--	38	43	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	1.7 J	--	--	36	40	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	2.1	--	--	42	44	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	ND(2)	--	0.76 J	11	21	--	--	--	ND(2)	ND(2)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	ND(2)	--	--	8.4	18	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	ND(2)	--	--	11	19	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	ND(1)	--	--	12	18	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	ND(1)	--	--	6.9	16	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	ND(2)	--	--	0.99 J	1.7 J	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	ND(1)	--	--	0.55 J	0.57 J	--	--	--	--	0.4 J
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	ND(10)	--	ND(10)	5.8 J	ND(10)	--	--	--	ND(10)	280
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	ND(10)	--	--	7.2 J	ND(10)	--	--	--	--	470
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	ND(20)	--	--	ND(20)	ND(20)	--	--	--	--	640
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	ND(1)	--	ND(1)	ND(1)	0.61J/ND(1)U*	--	--	--	--	0.24J/ND(1)U*
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	ND(1)	--	--	ND(1)	--	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	ND(1)	--	--	ND(1)	0.31 J	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	45
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	22
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	ND(1)	--	ND(1)	0.84 J	ND(1)	--	--	--	ND(1)	0.16 J
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	ND(1)	--	--	0.85 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	ND(1)	--	--	0.8 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	ND(1)	--	--	0.96 J	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	ND(1)	--	--	1	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	ND(1)	--	0.68 J	3	5.4	--	--	--	ND(1)	4.3
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	ND(1)	--	--	1.9	4.1	--	--	--	--	2.2
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	ND(1)	--	--	3.2	5	--	--	--	--	1.6
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	ND(1)	--	--	2.9	4.7	--	--	--	--	0.17 J
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	ND(1)	--	--	1.7	2.5	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	ND(2)	--	ND(2)	1.4 J	3.6	--	--	--	ND(2)	23
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	ND(1)	--	--	0.68 J	1.1	--	--	--	--	6.3 J
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	ND(1)	--	ND(1)	ND(1)	ND(1)	--	--	--	ND(1)	0.16J/ND(1)U*
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	ND(1)	--	ND(1)	ND(1)	ND(1)	--	--	--	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	ND(1)	--	ND(1)	ND(1)	ND(1)	--	--	--	ND(1)	0.14J/ND(1)U*
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.37 J
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	--	--	--	--	--	0.33J/ND(1)U*
Production Wells	PW-3	03/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-3	06/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-3	09/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-3	12/06/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-4	12/28/21	--	--	--	--	--	--	--	--	--	--	ND(1)
Production Wells	PW-4	03/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-4	06/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Production Wells	PW-4	09/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2- Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
	Cleanup Levels		0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	ND(1)	0.55 J	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	--	0.54 J	--	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	--	0.78 J	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	--	0.42 J	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	ND(1)	1.3	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	--	1.2	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	--	1.1	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	--	1.1	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	--	1.2	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	ND(5)	17	ND(5)	ND(5)	--	--	ND(5)	--	ND(50)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	--	12	--	ND(5)	--	--	--	--	ND(50)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	--	17	--	ND(2)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	--	17	--	ND(2)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	--	14	--	ND(2)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	ND(2)	10	ND(2)	ND(2)	--	--	ND(2)	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	ND(2)	--	9.5	--	ND(2)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	--	11	--	ND(2)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	--	11	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	--	7.3	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	ND(2)	0.83 J	ND(2)	ND(2)	--	--	0.5 J	--	ND(20)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	ND(1)	--	0.54J/ND(1)U*	--	ND(1)	--	--	--	--	6.8 J
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	ND(10)	ND(10)	3.9 J	ND(10)	21	--	--	3.5 J	--	ND(100)
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	--	ND(10)	--	82	--	--	--	--	ND(100)
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	--	ND(20)	--	110	--	--	--	--	ND(200)
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	--	0.41 J	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	--	ND(1)	--	10	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	--	ND(1)	--	7.7	--	--	--	--	3.7 J
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	ND(1)	0.43 J	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	--	0.45 J	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	ND(1)	2.7	ND(1)	1.6	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	ND(1)	--	2.1 JB	--	0.91 J	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	--	3	--	0.98 J	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	--	2.9	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	--	1.8	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	ND(2)	3.2	ND(2)	7.1	--	--	ND(2)	--	ND(20)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	ND(1)	--	1.3 JB	--	2.1 J	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	ND(1)	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--	1.1	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-3	03/09/22	--	ND(1)	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-3	06/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-3	09/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-3	12/06/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-4	12/28/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Production Wells	PW-4	03/09/22	--	ND(1)	--	0.42J/ND(1)U*	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-4	06/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Production Wells	PW-4	09/08/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
Cleanup Levels			233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	--	--	ND(10)	1.3	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	--	--	ND(10)	0.55 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	--	--	ND(10)	0.3 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	--	--	2.7J/ND(10)U*	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	--	--	ND(10)	0.59 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	ND(50)	--	ND(50)	ND(50)	1.3 J	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	--	--	ND(50)	ND(5)	--	--	--	ND(15)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	--	--	ND(20)	0.51 J	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	--	--	ND(20)	ND(2)	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	--	--	ND(20)	ND(2)	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	ND(20)	--	ND(20)	ND(20)	ND(2)	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	--	--	ND(20)	ND(2)	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	--	--	ND(20)	ND(2)	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	--	--	ND(10)	0.35 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	ND(20)	--	ND(20)	ND(20)	7.6	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	--	--	16 JB	5.3	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	ND(100)	--	ND(100)	ND(100)	9600	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	--	--	ND(100)	8900	--	--	--	ND(30)
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	--	--	ND(200)	14000	--	--	--	ND(60)
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	ND(10)	--	ND(10)	ND(10)	0.95 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	--	--	ND(10)	0.49J/ND(1)U*	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	--	--	5.4J/ND(10)U*	2.1	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	--	--	19 JB	16	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	--	--	16	16	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	ND(10)	--	ND(10)	ND(10)	0.37 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	--	--	ND(10)	0.35 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	--	--	3.2J/ND(10)U*	0.28 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	--	--	ND(10)	0.4 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	ND(20)	--	2.1 J	ND(20)	23	--	--	--	ND(6)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	--	--	ND(10)	9.5 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	ND(10)	--	ND(10)	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	ND(10)	--	ND(10)	ND(10)	0.23 J	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	--	--	6.4J/ND(10)U*	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	ND(10)	0.34 J	--	--	--	--
Production Wells	PW-3	03/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Production Wells	PW-3	06/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Production Wells	PW-3	09/08/22	--	--	--	--	7.9J/ND(10)U*	ND(1)	--	--	--	ND(3)
Production Wells	PW-3	12/06/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Production Wells	PW-4	12/28/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Production Wells	PW-4	03/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Production Wells	PW-4	06/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Production Wells	PW-4	09/08/22	--	--	--	--	9.9J/ND(10)U*	ND(1)	--	--	--	ND(3)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
Cleanup Levels			810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(10)	--	ND(1)	--	ND(1)	0.72J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(10)	--	ND(1)	--	ND(1)	0.7J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	ND(1)	ND(2)	ND(1)	0.75J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(10)	--	ND(1)	--	ND(1)	0.91J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(10)	--	ND(1)	--	ND(1)	0.52J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	ND(1)	0.43 J	ND(1)	ND(3)	2.6	--	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(10)	--	ND(1)	--	ND(1)	0.65J/ND(3)U*	1.9	--	--	--
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	1.3	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	1.9	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	1.6	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	ND(5)	2.1 J	ND(5)	3.2 J	3.2 J	--	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(50)	--	ND(5)	--	ND(5)	3.5J/ND(15)U*	3.2 J	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	2.8	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	2.7	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	3.2	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	ND(2)	ND(4)	ND(2)	0.95J/ND(6)U*	2.7	--	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(20)	--	ND(2)	--	ND(2)	1.3J/ND(6)U*	2	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	2.1	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	2.1	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	2.1	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	ND(2)	ND(4)	ND(2)	ND(6)	ND(2)	--	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(10)	--	ND(1)	--	10	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	ND(10)	ND(20)	3.8 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	ND(100)	--	ND(10)	--	5 J	ND(30)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(200)	--	ND(20)	--	ND(20)	ND(60)	ND(20)	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(10)	--	ND(1)	--	ND(1)	0.78J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(10)	--	ND(1)	--	ND(1)	1.8 J	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(10)	--	ND(1)	--	ND(1)	0.75J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(10)	--	ND(1)	--	ND(1)	0.67J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	ND(2)	ND(4)	ND(2)	0.88J/ND(6)U*	ND(2)	--	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(10)	--	ND(1)	--	ND(1)	0.68J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	0.2 J	ND(2)	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(10)	--	0.19 J	--	ND(1)	0.67J/ND(3)U*	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(10)	--	ND(10)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(10)	--	0.29 J	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	--	--	--	--	--
Production Wells	PW-3	03/09/22	ND(10)	--	ND(1)	--	ND(1)	0.8J/ND(3)U*	ND(1)	--	--	--
Production Wells	PW-3	06/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Production Wells	PW-3	09/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Production Wells	PW-3	12/06/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Production Wells	PW-4	12/28/21	--	--	--	--	--	--	--	--	--	--
Production Wells	PW-4	03/09/22	0.68 J	--	ND(1)	--	ND(1)	0.71J/ND(3)U*	ND(1)	--	--	--
Production Wells	PW-4	06/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Production Wells	PW-4	09/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
	Cleanup Levels		197	700	1.39	447	5	143	1,000	660	NA	2,000
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	ND(1)	--	ND(1)	ND(3)	16	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	ND(1)	--	ND(1)	ND(3)	17	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	ND(1)	--	ND(1)	ND(3)	39	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	ND(1)	--	ND(1)	ND(3)	33	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	ND(1)	--	ND(1)	ND(3)	39	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	ND(1)	--	ND(1)	ND(3)	0.63 J	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	ND(1)	--	ND(1)	ND(3)	0.53 J	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	ND(1)	--	ND(1)	ND(3)	0.7 J	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	ND(1)	--	ND(1)	ND(3)	1.6	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	ND(1)	--	ND(1)	ND(3)	2.9	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	ND(1)	--	ND(1)	ND(3)	23	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	ND(1)	--	ND(1)	ND(3)	20	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	ND(1)	--	ND(1)	ND(3)	22	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	ND(1)	--	ND(1)	ND(3)	22	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	ND(1)	--	ND(1)	ND(3)	22	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	ND(1)	--	ND(1)	ND(3)	4.2	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	ND(1)	--	ND(1)	ND(3)	3.9	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	ND(1)	--	ND(1)	ND(3)	3.1	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	ND(1)	--	ND(1)	ND(3)	6.6	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	ND(1)	--	ND(1)	ND(3)	4.2	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	ND(5)	--	ND(5)	ND(15)	440	ND(15)	ND(5)	ND(5)	ND(5)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	ND(5)	--	ND(5)	ND(15)	350	ND(15)	ND(5)	ND(5)	ND(5)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	ND(2)	--	ND(2)	ND(6)	500	ND(6)	ND(2)	ND(2)	ND(2)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	ND(2)	--	ND(2)	ND(6)	500	ND(6)	ND(2)	ND(2)	ND(2)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	ND(2)	--	ND(2)	ND(6)	460	ND(6)	ND(2)	ND(2)	ND(2)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	ND(2)	--	ND(2)	ND(6)	1100	ND(6)	ND(2)	ND(2)	0.84 J
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	ND(2)	--	ND(2)	ND(6)	870	ND(6)	ND(2)	ND(2)	0.33 J
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	ND(2)	--	ND(2)	ND(6)	1100	ND(6)	ND(2)	ND(2)	0.44 J
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	ND(1)	--	ND(1)	ND(3)	890	ND(3)	ND(1)	ND(1)	0.41 J
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	ND(1)	--	ND(1)	ND(3)	740	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	ND(2)	--	ND(2)	ND(6)	ND(2)	ND(6)	ND(2)	ND(2)	ND(2)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	ND(1)	--	ND(1)	1.1J/ND(3)U*	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	930	--	26	ND(30)	390	3.2 J	66	ND(10)	2.6 J
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	1200	--	36	ND(30)	610	5.3 J	93	ND(10)	1.6 J
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	1700	--	40	ND(60)	770	8 J	100	6.1 J	5.4 J
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	ND(1)	--	0.37 J	ND(3)	1.1	ND(3)	ND(1)	ND(1)	0.51 J
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	ND(1)	--	ND(1)	ND(3)	1.4	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	ND(1)	--	ND(1)	ND(3)	1.8	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	4.5	--	3.7	ND(3)	1.1	1.2 J	4	1.6	1.3
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	3.8	--	3.7	ND(3)	0.91 J	0.85 J	3.8	1.3	0.98 J
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	ND(1)	--	ND(1)	ND(3)	1	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	ND(1)	--	ND(1)	ND(3)	1	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	ND(1)	--	ND(1)	ND(3)	1.3	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	ND(1)	--	ND(1)	ND(3)	0.73 J	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	1.2	--	0.35 J	ND(3)	0.57 J	0.32 J	0.63 J	0.29 J	0.26 J
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	0.8 J	--	0.18 J	ND(3)	0.56 J	ND(3)	0.34 J	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	0.83 J	--	0.3 J	ND(3)	0.65 J	0.26 J	0.35 J	0.26 J	0.18 J
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	ND(1)	--	ND(1)	ND(3)	1.1	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	3.3	--	4.1	ND(6)	2.7	1.8 J	5	1.2 J	1.3 J
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	1.2	--	1.5	ND(3)	1.2	0.46 J	1.6	0.37 J	0.38 J
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	ND(1)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	ND(1)	--	ND(1)	ND(3)	0.51 J	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	0.61J/ND(1)U*	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	0.91 J
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	0.21 J
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	0.18 J
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	ND(1)	--	ND(1)	3.9	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	0.23 J	--	--	--	ND(1)	--	ND(1)	--	--
Production Wells	PW-3	03/09/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-3	06/14/22	--	ND(1)	--	ND(1)	2.1J/ND(3)U*	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-3	09/08/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-3	12/06/22	--	ND(1)	--	ND(1)	3.3	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-4	12/28/21	--	ND(1)	--	--	--	ND(1)	--	ND(1)	--	--
Production Wells	PW-4	03/09/22	--	ND(1)	--	ND(1)	0.53J/ND(3)U*	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-4	06/14/22	--	ND(1)	--	ND(1)	1.6J/ND(3)U*	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Production Wells	PW-4	09/08/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
Cleanup Levels			100	690	5	1,000	100	4.71	5	1,137	2	620
Marketing Tank Farm Wells	MKTF-27	12/14/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	0.46 J	ND(1.5)
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-28	12/14/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-29	12/14/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	0.44 J	ND(1.5)
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-30	12/14/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	1.5	--	0.79 J	ND(1.5)
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(1)	--	ND(1)	ND(1)	--	--	1.1	--	0.46 J	ND(1.5)
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(1)	--	ND(1)	ND(1)	--	--	0.93 J	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	1.2	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(1)	--	ND(1)	ND(1)	--	--	0.95 J	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-31	12/16/21	ND(5)	ND(5)	ND(5)	ND(5)	--	--	5.1	--	ND(5)	ND(7.5)
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(5)	--	ND(5)	ND(5)	--	--	5.2	--	ND(5)	ND(7.5)
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(2)	--	ND(2)	ND(2)	--	--	4.7	--	ND(2)	ND(3)
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(2)	--	ND(2)	ND(2)	--	--	4.2	--	ND(2)	ND(3)
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(2)	--	ND(2)	ND(2)	--	--	6.1	--	ND(2)	ND(3)
Marketing Tank Farm Wells	MKTF-32	12/09/21	ND(2)	ND(2)	ND(2)	ND(2)	--	--	ND(2)	--	1.6 J	ND(3)
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(2)	--	ND(2)	ND(2)	--	--	0.52J/ND(2)U*	--	ND(2)	ND(3)
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(2)	--	ND(2)	ND(2)	--	--	ND(2)	--	ND(2)	ND(3)
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	0.28 J	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	ND(2)	ND(2)	ND(2)	ND(2)	--	--	2.7	--	ND(2)	2.8 J
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(1)	--	ND(1)	1.5	--	--	0.69J/ND(1)U*	--	ND(1)	4.9
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	2.1 J	ND(10)	ND(10)	4100	--	--	ND(10)	--	ND(10)	1500
Marketing Tank Farm Wells	MKTF-35	03/10/22	2.3 J	--	ND(10)	3300	--	--	3 J	--	ND(10)	2900
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(20)	--	ND(20)	3300	--	--	ND(20)	--	ND(20)	4200
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	ND(1)	ND(1)	ND(1)	0.45 J	--	--	0.24 J	--	ND(1)	0.37 J
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(1)	--	ND(1)	0.8 J	--	--	0.57 J	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(1)	--	ND(1)	--	--	--	0.47 J	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	8.6
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	5.3
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-41	12/09/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	10
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(1)	--	ND(1)	ND(1)	--	--	0.35J/ND(1)U*	--	ND(1)	6.6
Marketing Tank Farm Wells	MKTF-41	06/16/22	0.21J/ND(1)U*	--	ND(1)	0.21J/ND(1)U*	--	--	ND(1)	--	ND(1)	6.9
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	0.8 J
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-42	12/09/21	ND(2)	ND(2)	ND(2)	1.3 J	--	--	ND(2)	--	ND(2)	66
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(1)	--	ND(1)	0.43 J	--	--	ND(1)	--	ND(1)	26 J
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	ND(1)	ND(1)	ND(1)	0.32 J	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-44	12/23/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	0.77 J
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	ND(1)	ND(1)	--	--	--	--	--	0.94 J
Production Wells	PW-3	03/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Production Wells	PW-3	06/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Production Wells	PW-3	09/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Production Wells	PW-3	12/06/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Production Wells	PW-4	12/28/21	--	--	ND(1)	ND(1)	--	--	--	--	--	ND(1.5)
Production Wells	PW-4	03/09/22	ND(1)	--	ND(1)	ND(1)	--	--	0.22J/ND(1)U*	--	0.46 J	ND(1.5)
Production Wells	PW-4	06/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Production Wells	PW-4	09/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
Cleanup Levels			5.74	200	10	5	25	7	NA	7	0.0084	70	56
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	ND(1)	ND(1)	--	--	--	--	0.14J/ND(1)U*
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.61 J
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	--	--	--	--	--	--	--	--	17
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	18
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	10
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	5.9
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	14
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	--	--	--	--	--	--	--	--	1.5 J
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.46 J
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(1)	--	--	ND(1)	0.53 J	--	--	--	--	0.51 J
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.85 J
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	ND(10)	ND(10)	--	--	--	--	1.7 J
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	ND(10)	--	--	ND(10)	ND(10)	--	--	--	--	2 J
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	ND(2)	--	--	ND(2)	ND(2)	--	--	--	--	1.7 J
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	ND(2)	--	--	ND(2)	ND(2)	--	--	--	--	2.2
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	ND(2)	--	--	ND(2)	ND(2)	--	--	--	--	1.4 J
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	ND(1)	ND(1)	--	--	--	--	0.17J/ND(1)U*
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.22 J
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.19 J
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	2.5	ND(2)	--	--	--	--	1.1 J
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	ND(5)	--	--	2.8 J	ND(5)	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	ND(5)	--	--	3 J	ND(5)	--	--	--	--	1.2 J
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	ND(5)	--	--	ND(5)	ND(5)	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	ND(1)	--	--	--	--	--	0.22 J
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.19 J
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.27 J
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	0.18 J
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	ND(50)	--	--	--	--	--	6.9J/ND(50)U*
Tank Farm Wells	OW-57	03/10/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	6.5 J
Tank Farm Wells	OW-57	06/29/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-57	09/15/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-57	12/07/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	ND(100)	--	--	--	--	--	21J/ND(100)U*
Tank Farm Wells	OW-58	03/10/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	12 J
Tank Farm Wells	OW-58	06/29/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	9.6 J
Tank Farm Wells	OW-58	09/20/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	8.6 J
Tank Farm Wells	OW-58	12/14/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	23 J	--	--	--	--	--	290
Tank Farm Wells	OW-58A	03/10/22	--	ND(20)	--	--	11 J	ND(20)	--	--	--	--	290
Tank Farm Wells	OW-58A	06/29/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	260
Tank Farm Wells	OW-58A	09/20/22	--	ND(20)	--	--	ND(20)	ND(20)	--	--	--	--	780 J
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	29 J	--	--	--	--	--	ND(50)
Tank Farm Wells	OW-63	03/10/22	--	ND(50)	--	--	31 J	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-63	06/08/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-63	09/20/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-63	12/07/22	--	ND(50)	--	--	ND(50)	ND(50)	--	--	--	--	ND(50)
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	0.51 J	--	--	--	--	--	65
Tank Farm Wells	OW-64	03/24/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	48
Tank Farm Wells	OW-64	06/08/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	47
Tank Farm Wells	OW-64	09/20/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	57
Tank Farm Wells	OW-64	12/07/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	33
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2- Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
Cleanup Levels			0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	ND(1)	--	0.39 J	--	ND(1)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	--	0.42J/ND(1)U*	--	0.48 J	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	--	--	--	14	--	--	--	--	24 J
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	--	ND(10)	--	14	--	--	--	--	27 J
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	--	ND(1)	--	8.4	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	--	ND(1)	--	9	--	--	--	--	8.2J/ND(10)U*
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	--	ND(1)	--	12	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	--	--	--	4.4	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	ND(1)	--	4.7	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	ND(1)	--	4.8	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	--	ND(1)	--	0.18 J	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	--	ND(1)	--	0.61 J	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	--	ND(1)	--	2.7	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	ND(10)	--	ND(4)	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	--	ND(10)	--	ND(10)	--	--	--	--	ND(100)
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	--	ND(2)	--	1.4 J	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	--	ND(2)	--	ND(2)	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	--	ND(2)	--	ND(2)	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	ND(2)	--	0.39 J	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	--	0.42J/ND(1)U*	--	ND(1)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	2 J	--	ND(2)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	--	ND(5)	--	ND(5)	--	--	--	--	ND(50)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	20 J	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-57	03/10/22	--	--	--	21 J	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-57	06/29/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-57	09/15/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-57	12/07/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-58	12/14/21	--	--	--	ND(40)	--	ND(100)	--	--	--	--	ND(1000)
Tank Farm Wells	OW-58	03/10/22	--	--	--	21 J	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-58	06/29/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-58	09/20/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-58	12/14/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-58A	12/14/21	--	--	--	20 J	--	59	--	--	--	--	ND(500)
Tank Farm Wells	OW-58A	03/10/22	--	--	--	8.9 J	--	56	--	--	--	--	ND(200)
Tank Farm Wells	OW-58A	06/29/22	--	--	--	ND(50)	--	45 J	--	--	--	--	ND(500)
Tank Farm Wells	OW-58A	09/20/22	--	--	--	ND(20)	--	210 J	--	--	--	--	ND(200)
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	ND(50)	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-63	03/10/22	--	--	--	21 J	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-63	06/08/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-63	09/20/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-63	12/07/22	--	--	--	ND(50)	--	ND(50)	--	--	--	--	ND(500)
Tank Farm Wells	OW-64	12/29/21	--	ND(1)	--	ND(1)	--	3.3	--	--	--	--	ND(10)
Tank Farm Wells	OW-64	03/24/22	--	--	--	ND(1)	--	1.8	--	--	--	--	ND(10)
Tank Farm Wells	OW-64	06/08/22	--	--	--	ND(1)	--	2	--	--	--	--	ND(10)
Tank Farm Wells	OW-64	09/20/22	--	--	--	ND(1)	--	1.2	--	--	--	--	ND(10)
Tank Farm Wells	OW-64	12/07/22	--	--	--	ND(1)	--	1.7	--	--	--	--	ND(10)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
Cleanup Levels			233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	ND(1)	--	ND(10)	1.6	--	0.27 J	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	--	--	ND(10)	2.1	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	--	--	2.7J/ND(10)U*	3.9	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	--	--	140	150	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	--	--	160	150	--	--	--	ND(30)
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	--	--	ND(10)	25	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	--	--	56 JB	17	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	--	--	44	37	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	--	--	ND(20)	7	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	ND(10)	12	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	ND(10)	13	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	--	--	8.5J/ND(10)U*	0.43 J	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	--	--	10/ND(10)U*	0.93 J	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	--	--	ND(10)	27	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	ND(10)	--	ND(100)	940	--	ND(10)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	--	--	ND(100)	790	--	--	--	ND(30)
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	--	--	15J/ND(20)U*	1300	--	--	--	ND(6)
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	--	--	ND(20)	1200	--	--	--	ND(6)
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	--	--	ND(20)	1400	--	--	--	ND(6)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	ND(1)	--	ND(10)	56	--	0.4 J	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	--	--	ND(10)	99	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	--	--	6.5J/ND(10)U*	250	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	--	--	ND(10)	90	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	--	--	ND(10)	1.2	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	ND(2)	--	19J/ND(25)U*	55	--	ND(2)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	--	--	ND(50)	6.1	--	--	--	ND(15)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	--	--	ND(50)	51	--	--	--	ND(15)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	--	--	ND(50)	24	--	--	--	ND(15)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	--	--	ND(50)	37	--	--	--	ND(15)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	--	--	2.9J/ND(10)U*	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	--	--	5J/ND(10)U*	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	--	--	ND(10)	0.44J/ND(1)U*	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	--	--	7.1J/ND(10)U*	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	ND(500)	14000	--	--	--	--
Tank Farm Wells	OW-57	03/10/22	--	--	--	--	ND(500)	14000	--	--	--	ND(150)
Tank Farm Wells	OW-57	06/29/22	--	--	--	--	ND(500)	12000	--	--	--	ND(150)
Tank Farm Wells	OW-57	09/15/22	--	--	--	--	ND(500)	14000	--	--	--	ND(150)
Tank Farm Wells	OW-57	12/07/22	--	--	--	--	ND(500)	14000	--	--	--	ND(150)
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	ND(1000)	30000	--	--	--	--
Tank Farm Wells	OW-58	03/10/22	--	--	--	--	ND(500)	26000	--	--	--	ND(150)
Tank Farm Wells	OW-58	06/29/22	--	--	--	--	ND(500)	28000	--	--	--	ND(150)
Tank Farm Wells	OW-58	09/20/22	--	--	--	--	ND(500)	31000	--	--	--	ND(150)
Tank Farm Wells	OW-58	12/14/22	--	--	--	--	ND(500)	31000	--	--	--	ND(150)
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	ND(500)	6900	--	--	--	--
Tank Farm Wells	OW-58A	03/10/22	--	--	--	--	ND(200)	6300	--	--	--	ND(60)
Tank Farm Wells	OW-58A	06/29/22	--	--	--	--	ND(500)	6500	--	--	--	ND(150)
Tank Farm Wells	OW-58A	09/20/22	--	--	--	--	ND(200)	8900	--	--	--	ND(60)
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	ND(500)	8900	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	--	--	--	--	ND(500)	8400	--	--	--	ND(150)
Tank Farm Wells	OW-63	06/08/22	--	--	--	--	ND(500)	8600	--	--	--	ND(150)
Tank Farm Wells	OW-63	09/20/22	--	--	--	--	ND(500)	9000	--	--	--	ND(150)
Tank Farm Wells	OW-63	12/07/22	--	--	--	--	ND(500)	9600	--	--	--	ND(150)
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	5.3J/ND(10)U*	19	--	--	--	--
Tank Farm Wells	OW-64	03/24/22	--	--	--	--	4.4 J	12	--	--	--	ND(3)
Tank Farm Wells	OW-64	06/08/22	--	--	--	--	ND(10)	12	--	--	--	ND(3)
Tank Farm Wells	OW-64	09/20/22	--	--	--	--	9J/ND(10)U*	45	--	--	--	ND(3)
Tank Farm Wells	OW-64	12/07/22	--	--	--	--	ND(10)	5	--	--	--	ND(3)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
Cleanup Levels			810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	--	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(10)	--	ND(1)	--	ND(1)	0.7J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(10)	--	ND(1)	--	0.25 J	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	ND(100)	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(100)	--	ND(10)	--	ND(10)	7J/ND(30)U*	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(10)	--	ND(1)	--	0.24 J	0.94J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	ND(20)	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(10)	--	ND(1)	--	ND(1)	0.85J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(10)	--	ND(1)	--	ND(1)	0.83J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	--	--	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(100)	--	ND(10)	--	ND(10)	6.7J/ND(30)U*	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(20)	--	ND(2)	--	0.76 J	1.3J/ND(6)U*	ND(2)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	ND(2)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(20)	--	ND(2)	--	ND(2)	ND(6)	ND(2)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	--	--	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(10)	--	ND(1)	--	ND(1)	0.72J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(10)	--	ND(1)	--	0.22 J	0.64J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	--	--	ND(2)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(50)	--	ND(5)	--	ND(5)	ND(15)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	ND(2)	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(10)	--	ND(1)	--	ND(1)	0.66J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(10)	--	ND(1)	--	ND(1)	0.7J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(10)	--	ND(1)	--	ND(1)	0.44J/ND(3)U*	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	ND(100)	--	--	--	--	--	--
Tank Farm Wells	OW-57	03/10/22	ND(500)	--	ND(50)	--	9.5 J	47J/ND(150)U*	ND(50)	--	--	--
Tank Farm Wells	OW-57	06/29/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-57	09/15/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-57	12/07/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-58	12/14/21	--	--	--	120 J	--	--	--	--	--	--
Tank Farm Wells	OW-58	03/10/22	ND(500)	--	ND(50)	--	9.2 J	47J/ND(150)U*	ND(50)	--	--	--
Tank Farm Wells	OW-58	06/29/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-58	09/20/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-58	12/14/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-58A	12/14/21	--	--	--	ND(100)	--	--	--	--	--	--
Tank Farm Wells	OW-58A	03/10/22	ND(200)	--	ND(20)	--	ND(20)	24J/ND(60)U*	ND(20)	--	--	--
Tank Farm Wells	OW-58A	06/29/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-58A	09/20/22	ND(200)	--	ND(20)	--	ND(20)	ND(60)	ND(20)	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	ND(100)	--	--	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	ND(500)	--	ND(50)	--	17 J	60J/ND(150)U*	ND(50)	--	--	--
Tank Farm Wells	OW-63	06/08/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-63	09/20/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-63	12/07/22	ND(500)	--	ND(50)	--	ND(50)	ND(150)	ND(50)	--	--	--
Tank Farm Wells	OW-64	12/29/21	--	--	--	ND(2)	--	--	--	--	--	--
Tank Farm Wells	OW-64	03/24/22	ND(10)	--	ND(1)	--	0.47J/ND(1)U*	ND(3)	ND(1)	--	--	--
Tank Farm Wells	OW-64	06/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Tank Farm Wells	OW-64	09/20/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Tank Farm Wells	OW-64	12/07/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
Cleanup Levels			197	700	1.39	447	5	143	1,000	660	NA	2,000
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	12	--	1.5	--	80	ND(3)	0.66 J	ND(1)	0.34 J
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	9.7	--	1.7	ND(3)	72	ND(3)	0.69 J	ND(1)	0.25 J
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	8.6	--	1.7	ND(3)	78	ND(3)	0.59 J	ND(1)	0.26 J
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	0.31 J	--	ND(1)	ND(3)	68	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	ND(1)	--	ND(1)	ND(3)	74	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	39	--	7.3 J	ND(30)	ND(10)	2.8 J	9.7 J	3.6 J	4.1 J
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	44	--	8.1 J	ND(30)	ND(10)	3 J	11	3.2 J	3.1 J
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	20	--	4.3	27 J	1.5	0.87 J	4.5	1.3	2.2
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	5.4	--	1	ND(3)	0.94 J	0.89 J	1.2	1.3	0.89 J
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	17	--	3.4	2.9 J	1.9	ND(3)	4	2	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	5.1	--	0.89 J	ND(6)	5.2	ND(6)	0.79 J	0.5 J	0.47 J
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	5.8	--	0.9 J	ND(3)	4.8	ND(3)	0.59 J	0.36 J	0.22 J
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	6	--	0.94 J	ND(3)	4.9	ND(3)	0.65 J	0.36 J	0.25 J
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	ND(1)	--	ND(1)	15 J	2.2	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	0.69 J	--	ND(1)	ND(3)	2.5	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	10	--	2.2	ND(3)	9.4	ND(3)	1.6	0.64 J	0.7 J
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	210	--	15	--	150	ND(30)	16	ND(10)	3.3 J
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	150	--	9.4 J	ND(30)	110	ND(30)	8.2 J	ND(10)	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	180	--	14	ND(6)	130	1.5 J	14	ND(2)	2.3
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	200	--	15	ND(6)	110	1.2 J	14	ND(2)	2.3
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	220	--	18	ND(6)	62	1.5 J	18	ND(2)	2.2
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	19	--	1.6	--	81	ND(3)	1	ND(1)	0.45 J
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	41	--	4.4	ND(3)	67	0.32 J	2.7	ND(1)	0.73 J
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	49	--	4.7	ND(3)	68	0.39 J	2.1	ND(1)	0.77 J
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	29	--	3.3	ND(3)	62	ND(3)	1.8	ND(1)	0.73 J
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	8.9	--	2.1	ND(3)	87	ND(3)	0.83 J	ND(1)	0.93 J
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	8.2	--	ND(2)	--	320	ND(2)	1.2 J	ND(2)	ND(2)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	ND(5)	--	ND(5)	ND(15)	270	ND(15)	ND(5)	ND(5)	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	8.8	--	ND(5)	ND(15)	320	ND(15)	1 J	ND(5)	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	4.6 J	--	ND(5)	ND(15)	300	ND(15)	ND(5)	ND(5)	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	4.6 J	--	ND(5)	ND(15)	330	ND(15)	ND(5)	ND(5)	ND(5)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	ND(1)	--	ND(1)	ND(3)	13	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	ND(1)	--	ND(1)	ND(3)	11	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	ND(1)	--	0.38 J	ND(3)	9.6	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	ND(1)	--	ND(1)	ND(3)	10	ND(3)	ND(1)	ND(1)	0.23 J
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	ND(1)	--	ND(1)	ND(3)	12	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	ND(1)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	ND(1)	--	ND(1)	ND(3)	0.43 J	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	ND(1)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	0.28 J	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	ND(1)	--	ND(1)	ND(3)	0.41 J	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	550	--	14 J	ND(150)	46 J	ND(150)	38 J	--	ND(50)
Tank Farm Wells	OW-57	03/10/22	--	490	--	11 J	ND(150)	34 J	ND(150)	31 J	ND(50)	ND(50)
Tank Farm Wells	OW-57	06/29/22	--	510	--	14 J	ND(150)	31 J	ND(150)	34 J	ND(50)	ND(50)
Tank Farm Wells	OW-57	09/15/22	--	580	--	16 J	ND(150)	41 J	ND(150)	42 J	ND(50)	ND(50)
Tank Farm Wells	OW-57	12/07/22	--	590	--	ND(50)	ND(150)	ND(50)	ND(150)	41 J	ND(50)	ND(50)
Tank Farm Wells	OW-58	12/14/21	--	1300	--	35 J	ND(300)	1300	ND(300)	110	--	15 J
Tank Farm Wells	OW-58	03/10/22	--	1200	--	35 J	ND(150)	1000	ND(150)	110	ND(50)	ND(50)
Tank Farm Wells	OW-58	06/29/22	--	1200	--	31 J	ND(150)	1000	15 J	95	ND(50)	7.3 J
Tank Farm Wells	OW-58	09/20/22	--	1200	--	28 J	ND(150)	1000	14 J	91	ND(50)	ND(50)
Tank Farm Wells	OW-58	12/14/22	--	1400	--	33 J	ND(150)	1200	ND(150)	110	ND(50)	ND(50)
Tank Farm Wells	OW-58A	12/14/21	--	570	--	36 J	ND(150)	2500	14 J	91	--	9.2 J
Tank Farm Wells	OW-58A	03/10/22	--	570	--	36	ND(60)	2300	11 J	87	4.7 J	3.3 J
Tank Farm Wells	OW-58A	06/29/22	--	540	--	32 J	ND(150)	2300	15 J	76	ND(50)	7.9 J
Tank Farm Wells	OW-58A	09/20/22	--	1000	--	71	ND(60)	2200	19 J	130	13 J	16 J
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	1300	--	63	ND(150)	21 J	23 J	190	ND(50)	14 J
Tank Farm Wells	OW-63	03/10/22	--	1300	--	64	ND(150)	21 J	20 J	180	ND(50)	9.4 J
Tank Farm Wells	OW-63	06/08/22	--	1200	--	57	ND(150)	ND(50)	ND(150)	150	ND(50)	8.3 J
Tank Farm Wells	OW-63	09/20/22	--	1100	--	44 J	ND(150)	23 J	21 J	140	ND(50)	ND(50)
Tank Farm Wells	OW-63	12/07/22	--	1300	--	59	ND(150)	ND(50)	ND(150)	160	ND(50)	ND(50)
Tank Farm Wells	OW-64	12/29/21	--	32	--	9.2	ND(3)	ND(1)	ND(3)	4.5	2	2.7
Tank Farm Wells	OW-64	03/24/22	--	21	--	6.3	ND(3)	ND(1)	0.98 J	3.6	0.3 J	2.3
Tank Farm Wells	OW-64	06/08/22	--	47	--	16	ND(3)	ND(1)	ND(3)	6.2	1	3.1
Tank Farm Wells	OW-64	09/20/22	--	53	--	11	ND(3)	ND(1)	ND(3)	4.7	1	3.3
Tank Farm Wells	OW-64	12/07/22	--	20	--	5.1	ND(3)	ND(1)	ND(3)	2.4	0.95 J	1.8
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
Cleanup Levels			100	690	5	1,000	100	4.71	5	1,137	2	620
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	ND(1)	--	ND(1)	--	--	--	--	--	ND(1.5)
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(1)	--	ND(1)	ND(1)	--	--	0.3 J	--	ND(1)	0.85 J
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	0.72J/ND(1.5)U*
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	ND(10)	--	5.6 J	--	--	ND(10)	--	--	23
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(10)	--	ND(10)	17	--	--	ND(10)	--	ND(10)	29
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(1)	--	ND(1)	1.7 JB	--	--	ND(1)	--	0.52 J	14
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(1)	--	ND(1)	4.4	--	--	ND(1)	--	ND(1)	13
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(1)	--	ND(1)	13	--	--	ND(1)	--	ND(1)	35
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	ND(2)	--	0.65 J	--	--	ND(2)	--	--	ND(3)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(1)	--	ND(1)	0.7 J	--	--	ND(1)	--	ND(1)	0.51 J
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(1)	--	ND(1)	0.82 J	--	--	0.58 J	--	ND(1)	0.52 J
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(1)	--	ND(1)	2.4	--	--	ND(1)	--	ND(1)	0.88 J
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	ND(10)	--	ND(10)	--	--	--	--	--	31
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(10)	--	ND(10)	ND(10)	--	--	ND(10)	--	ND(10)	24
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(2)	--	ND(2)	0.7J/ND(2)U*	--	--	ND(2)	--	ND(2)	32
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(2)	--	ND(2)	0.62 J	--	--	ND(2)	--	ND(2)	26
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(2)	--	ND(2)	1.1 J	--	--	ND(2)	--	ND(2)	14
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	ND(1)	--	ND(1)	--	--	ND(1)	--	--	2.1
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	1.9
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(1)	--	ND(1)	0.23J/ND(1)U*	--	--	ND(1)	--	ND(1)	3.3 JB
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	1.2 J
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	ND(2)	--	ND(2)	--	--	--	--	--	ND(4)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(5)	--	ND(5)	ND(5)	--	--	ND(5)	--	ND(5)	ND(7.5)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	ND(1)	--	ND(1)	--	--	--	--	--	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(1)	--	ND(1)	0.24J/ND(1)U*	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	ND(50)	ND(50)	--	39 J	--	--	--	--	--	130
Tank Farm Wells	OW-57	03/10/22	ND(50)	--	ND(50)	53	--	--	ND(50)	--	ND(50)	130
Tank Farm Wells	OW-57	06/29/22	ND(50)	--	ND(50)	28 J	--	--	ND(50)	--	ND(50)	100
Tank Farm Wells	OW-57	09/15/22	ND(50)	--	ND(50)	27 J	--	--	ND(50)	--	ND(50)	100
Tank Farm Wells	OW-57	12/07/22	ND(50)	--	ND(50)	27 J	--	--	ND(50)	--	ND(50)	79
Tank Farm Wells	OW-58	12/14/21	ND(100)	ND(100)	--	86 J	--	--	--	--	--	190
Tank Farm Wells	OW-58	03/10/22	ND(50)	--	ND(50)	61	--	--	ND(50)	--	ND(50)	160
Tank Farm Wells	OW-58	06/29/22	ND(50)	--	ND(50)	39 J	--	--	ND(50)	--	ND(50)	130
Tank Farm Wells	OW-58	09/20/22	ND(50)	--	ND(50)	42 J	--	--	ND(50)	--	ND(50)	130
Tank Farm Wells	OW-58	12/14/22	ND(50)	--	ND(50)	190 J	--	--	ND(50)	--	ND(50)	230 J
Tank Farm Wells	OW-58A	12/14/21	ND(50)	ND(50)	--	130	--	--	--	--	--	680
Tank Farm Wells	OW-58A	03/10/22	ND(20)	--	ND(20)	140	--	--	ND(20)	--	ND(20)	670
Tank Farm Wells	OW-58A	06/29/22	ND(50)	--	ND(50)	130	--	--	ND(50)	--	ND(50)	620
Tank Farm Wells	OW-58A	09/20/22	ND(20)	--	ND(20)	6300 J	--	--	ND(20)	--	ND(20)	4300 J
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	ND(50)	--	54	--	--	--	--	--	160
Tank Farm Wells	OW-63	03/10/22	ND(50)	--	ND(50)	53	--	--	ND(50)	--	ND(50)	150
Tank Farm Wells	OW-63	06/08/22	ND(50)	--	ND(50)	46 J	--	--	ND(50)	--	ND(50)	120
Tank Farm Wells	OW-63	09/20/22	ND(50)	--	ND(50)	43 J	--	--	ND(50)	--	ND(50)	110
Tank Farm Wells	OW-63	12/07/22	ND(50)	--	ND(50)	42 J	--	--	ND(50)	--	ND(50)	130
Tank Farm Wells	OW-64	12/29/21	--	ND(1)	--	ND(1)	--	--	--	--	--	14
Tank Farm Wells	OW-64	03/24/22	ND(1)	--	ND(1)	0.22 J	--	--	ND(1)	--	ND(1)	9.7
Tank Farm Wells	OW-64	06/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	9.2
Tank Farm Wells	OW-64	09/20/22	ND(1)	--	ND(1)	0.71 J	--	--	ND(1)	--	ND(1)	7.9
Tank Farm Wells	OW-64	12/07/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	2.7
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichlorobenzene (ug/L)	1,2,3-Trichloropropane (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
Cleanup Levels			5.74	200	10	5	25	7	NA	7	0.0084	70	56
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/20/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-2A	09/12/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/20/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/21/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-2C	09/18/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/22/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/21/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-3C	09/18/18	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	08/14/19	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/22/20	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	--	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-4B	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	0.54 J	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	ND(1)	--	--	0.54 J	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5B	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5B	09/27/22	--	ND(1)	--	--	0.42 J	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5B	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	0.82 J	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	ND(1)	--	--	0.82 J	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5C	06/09/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5C	09/27/22	--	ND(1)	--	--	0.76 J	ND(1)	--	--	--	--	ND(1)
Western Boundary Wells	BW-5C	12/22/22	--	ND(1)	--	--	ND(1)	ND(1)	--	--	--	--	ND(1)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2-Dibromo 3-chloropropane (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzene (ug/L)	1,2- Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	1,3,5-Trimethylbenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,3-Dichloropropane (ug/L)	1,4-Dichlorobenzene (ug/L)	2,2-Dichloropropane (ug/L)	2-Butanone (ug/L)
	Cleanup Levels		0.0033	0.05	600	5	5	60	NA	370	75	NA	5,565
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-1C	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-1C	09/20/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-1C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-2A	09/12/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2A	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2A	09/20/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2B	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2B	09/21/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2B	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-2C	09/18/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2C	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2C	09/22/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3B	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3B	09/21/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3B	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-3C	09/18/18	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3C	08/14/19	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3C	09/22/20	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(10)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	--	ND(1)	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-4B	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	0.51 J	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	ND(1)	--	0.49 J	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5B	06/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5B	09/27/22	--	--	--	0.37 J	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5B	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	0.66 J	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	ND(1)	--	0.68 J	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5C	06/09/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5C	09/27/22	--	--	--	0.59 J	--	ND(1)	--	--	--	--	ND(10)
Western Boundary Wells	BW-5C	12/22/22	--	--	--	ND(1)	--	ND(1)	--	--	--	--	ND(10)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2-Chlorotoluene (ug/L)	2-Hexanone (ug/L)	4-Chlorotoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)
	Cleanup Levels		233	38	250	1,243	14,064	5	62	1.34	32.9	7.54
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(1)	ND(10)	ND(1)	ND(10)	4.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-1C	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-1C	09/20/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	--	--	--	7.1J/ND(10)U*	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-2A	09/12/18	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2A	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2A	09/20/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(1)	ND(10)	ND(1)	ND(10)	4.2	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2B	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2B	09/21/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	--	--	--	3.8J/ND(10)U*	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-2C	09/18/18	ND(1)	ND(10)	ND(1)	ND(10)	4.1	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2C	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2C	09/22/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(1)	ND(10)	ND(1)	ND(10)	3.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3B	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3B	09/21/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-3C	09/18/18	ND(1)	ND(10)	ND(1)	ND(10)	1.9	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3C	08/14/19	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3C	09/22/20	ND(1)	ND(10)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-4B	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5B	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5B	09/27/22	--	--	--	--	4.3 J	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5B	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	ND(10)	ND(1)	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5C	06/09/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5C	09/27/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)
Western Boundary Wells	BW-5C	12/22/22	--	--	--	--	ND(10)	ND(1)	--	--	--	ND(3)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)
	Cleanup Levels		810	5	77.6	20,857	100	20.32	70	4.71	1.68	8
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/20/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-2A	09/12/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/20/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/21/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-2C	09/18/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/22/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/21/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-3C	09/18/18	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	08/14/19	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/22/20	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/29/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-4B	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5B	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5B	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5B	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5C	12/08/21	ND(10)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5C	06/09/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5C	09/27/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--
Western Boundary Wells	BW-5C	12/22/22	ND(10)	--	ND(1)	--	ND(1)	ND(3)	ND(1)	--	--	--

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	Hexachlorobutadiene (ug/L)	Isopropylbenzene (ug/L)	Methylene Chloride (ug/L)	MTBE (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)
	Cleanup Levels		197	700	1.39	447	5	143	1,000	660	NA	2,000
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-1C	09/29/21	--	ND(1)	--	--	--	ND(1)	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2A	09/29/21	--	ND(1)	--	--	--	ND(1)	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2B	09/29/21	--	ND(1)	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-2C	09/29/21	--	ND(1)	--	--	--	ND(1)	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3B	09/29/21	--	ND(1)	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-3C	09/29/21	--	ND(1)	--	--	ND(1)	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	ND(1)	--	--	--	ND(1)	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-4B	12/22/22	--	ND(1)	--	ND(1)	ND(3)	ND(1)	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	ND(1)	--	--	--	14	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	ND(1)	--	ND(1)	ND(3)	13	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5B	06/09/22	--	ND(1)	--	ND(1)	52/ND(52)/U*	8.7 J	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5B	09/27/22	--	ND(1)	--	ND(1)	ND(3)	13	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5B	12/22/22	--	ND(1)	--	ND(1)	ND(3)	2.9	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5C	12/08/21	--	ND(1)	--	--	--	25	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	ND(1)	--	ND(1)	ND(3)	24	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5C	06/09/22	--	ND(1)	--	ND(1)	ND(3)	26	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5C	09/27/22	--	ND(1)	--	ND(1)	ND(3)	22	ND(3)	ND(1)	ND(1)	ND(1)
Western Boundary Wells	BW-5C	12/22/22	--	ND(1)	--	ND(1)	ND(3)	19	ND(3)	ND(1)	ND(1)	ND(1)

TABLE 5-1. VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Styrene (ug/L)	tert-Butylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	trans-1,2-Dichloroethene (ug/L)	trans-1,3-Dichloropropene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl Chloride (ug/L)	Xylenes, Total (ug/L)
	Cleanup Levels		100	690	5	1,000	100	4.71	5	1,137	2	620
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-1C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-1C	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-1C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-1C	09/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-2A	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2A	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2A	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2B	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2B	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2B	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-2B	09/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-2C	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2C	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-2C	09/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3B	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3B	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3B	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-3B	09/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-3C	09/18/18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3C	08/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3C	09/22/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.5)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-3C	09/28/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	--	0.39 J	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-4B	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-4B	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-5B	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5B	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5B	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5B	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	ND(1)	--	--	--	--	--	ND(1.5)
Western Boundary Wells	BW-5C	03/08/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5C	06/09/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5C	09/27/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)
Western Boundary Wells	BW-5C	12/22/22	ND(1)	--	ND(1)	ND(1)	--	--	ND(1)	--	ND(1)	ND(1.5)

-- = Not Measured
* = The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration by the data validator. The result was determined to be a false positive.
J = Estimated concentration
J- = Estimated concentration, possibly biased low
J+ = Estimated concentration, possibly biased high
JB = Estimated concentration due to blank contamination
MTBE = methyl tert butyl ether
ND(x) = Not detected, where x = the reporting limit
NS - Dry = Not sampled due to dry well
NS - SPH = Not sampled due to presence of Separate Phase Hydrocarbons
NS - UTA = Not sampled, unable to access location
Q = Quarter
R = Rejected, Data not usable
U = Evaluated to be undetected at the reported concentration
ug/L = micrograms per liter
UU = Estimated reporting limit

Notes:
Bolded detections and italicized non-detections exceeded the cleanup levels selected in Table 3-2.
Data prior to July 2019 was not validated and flags have not been applied.

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	--	--	ND(5)	0.2 J	0.28 J	--	ND(5)	--	ND(5)
Deep Monitoring Wells	OW-01	06/15/22	--	--	--	ND(5) UJ	0.26 J	ND(0.3)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-01	09/27/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-01	12/22/22	--	--	--	ND(5)	ND(1)	ND(5)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	--	--	ND(5) R	1.3	ND(0.1) UJ	--	ND(5) R	--	ND(5) R
Deep Monitoring Wells	OW-10	06/08/22	--	--	--	ND(5)	3.3	ND(0.3)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-10	09/27/22	--	--	--	ND(5)	1 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-10	12/22/22	--	--	--	ND(5)	1.2	ND(0.3)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	ND(1)	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-13	03/23/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Deep Monitoring Wells	OW-13	06/09/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-13	09/07/22	--	--	--	ND(5)	ND(1)	ND(0.3) UJ	--	ND(10)	--	ND(10)
Deep Monitoring Wells	OW-13	12/28/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	--	ND(0.1) UJ	--	--	--	15
Eastern Boundary Wells	OW-12A	03/22/22	--	--	--	ND(5)	16	2.7	--	ND(5)	--	7.1
Eastern Boundary Wells	OW-12A	06/28/22	--	--	--	ND(5) UJ	16 J+	0.96 J	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-12A	09/15/22	--	--	--	ND(5)	11	0.78	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-12A	12/07/22	--	--	--	ND(5)	5.3	1.3 J	--	ND(10) R	--	7.2 J-
Eastern Boundary Wells	OW-14	03/24/22	--	--	--	ND(5)	1.1	14	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-14	06/30/22	--	--	--	ND(5)	ND(1)	17	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-14	09/30/22	--	--	--	ND(5)	1.5	20 J+	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-14	12/29/22	--	--	--	ND(5)	1	16	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-29	03/08/22	--	--	--	ND(5) UJ	0.64 J	ND(0.1) UJ	--	ND(5) R	--	ND(5) R
Eastern Boundary Wells	OW-29	06/09/22	--	--	--	ND(5) UJ	0.46 J	ND(0.3)	--	ND(10) UJ	--	ND(10) UJ
Eastern Boundary Wells	OW-29	09/07/22	--	--	--	ND(5)	0.82 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-29	12/27/22	--	--	--	ND(5)	0.86 J	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-30	03/24/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-30	06/30/22	--	--	--	ND(5)	0.5 J+	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-30	09/30/22	--	--	--	ND(5)	0.72 J	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-30	12/29/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	--	--	ND(5) R	--	--	--	ND(5) R
Eastern Boundary Wells	OW-50	03/08/22	--	--	--	ND(5) UJ	ND(1)	ND(0.1) UJ	--	ND(5) R	--	ND(5) R
Eastern Boundary Wells	OW-50	06/09/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-50	09/07/22	--	--	--	ND(5)	ND(1)	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-50	12/27/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	--	--	ND(5)	--	--	--	ND(5)
Eastern Boundary Wells	OW-52	03/08/22	--	--	--	ND(5) R	ND(1)	ND(0.1) UJ	--	ND(5) R	--	ND(5) R
Eastern Boundary Wells	OW-52	06/09/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-52	09/07/22	--	--	--	ND(5)	ND(1)	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-52	12/27/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	ND(1)	0.32 J	--	--	--	ND(5)
Eastern Boundary Wells	OW-54	03/23/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-54	06/15/22	--	--	--	ND(5) UJ	ND(1)	0.24 J	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-54	09/07/22	--	--	--	ND(5)	0.68 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-54	12/27/22	--	--	--	ND(5)	0.84 J	0.2 J	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	ND(1)	20 J	--	--	--	ND(5)
Eastern Boundary Wells	OW-55	03/23/22	--	--	--	ND(5)	ND(1)	20	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-55	06/15/22	--	--	--	ND(5) UJ	ND(1)	28	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-55	09/07/22	--	--	--	ND(5)	1.3	25 J	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-55	12/27/22	--	--	--	ND(5)	1.2	28	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	0.7 J	ND(0.1)	--	--	--	ND(5)
Eastern Boundary Wells	OW-56	03/23/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-56	06/15/22	--	--	--	ND(5) UJ	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-56	09/07/22	--	--	--	ND(5)	0.68 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-56	12/28/22	--	--	--	ND(5)	0.22 J	ND(0.3)	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-66	03/23/22	--	--	--	ND(50)	ND(1)	25 J	--	ND(50)	--	22 J
Eastern Boundary Wells	OW-66	06/15/22	--	--	--	ND(5) UJ	ND(1)	24	--	ND(10)	--	12
Eastern Boundary Wells	OW-66	09/07/22	--	--	--	ND(5)	1.2	19 J	--	ND(10)	--	16
Eastern Boundary Wells	OW-66	12/27/22	--	--	--	ND(5)	1.4	26	--	ND(10)	--	18
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	--	ND(0.1) UJ	--	--	--	ND(5)
Eastern Boundary Wells	OW-70	03/22/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Eastern Boundary Wells	OW-70	06/28/22	--	--	--	ND(5) UJ	0.7 J+	ND(0.3) UJ	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-70	09/15/22	--	--	--	ND(5)	0.7 J	1 J	--	ND(10)	--	ND(10)
Eastern Boundary Wells	OW-70	12/14/22	--	--	--	ND(5)	0.36 J	ND(0.3)	--	ND(10)	--	ND(10)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	ND(5)	--	--	--	--	0.4 J	ND(5)	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	ND(20)	--	--	--	--	ND(5)	ND(10)	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(5) R	--	--	--	--	ND(0.1) UJ	ND(5) R	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	ND(5)	--	--	--	--	2.4	ND(5)	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	ND(20)	--	--	--	--	0.42 J	ND(10)	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	ND(20)	--	--	--	--	0.16 J	ND(10)	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	ND(20) R	--	--	--	--	0.68 J	ND(10) R	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	ND(5) R	--	--	--	--	ND(0.1) UJ	ND(5) R	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	ND(20) UJ	--	--	--	--	ND(0.3)	ND(10) UJ	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	--	--	ND(5) R	ND(5) R	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	ND(5) R	--	--	--	--	ND(0.1) UJ	ND(5) R	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	--	--	ND(5)	ND(5)	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	ND(5) R	--	--	--	--	ND(0.1) UJ	ND(5) R	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	--	5 J	ND(5)	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	ND(5)	--	--	--	--	13	ND(5)	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	ND(20)	--	--	--	--	15	ND(10)	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	ND(20)	--	--	--	--	10 J	ND(10)	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	ND(20)	--	--	--	--	16	ND(10)	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	ND(50)	--	--	--	--	46 J	25 J	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	ND(20)	--	--	--	--	41	25	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	ND(20)	--	--	--	--	40 J	31	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	ND(20)	--	--	--	--	46	32	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	ND(20)	--	--	--	--	0.74 J	ND(10)	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
	Cleanup Levels		370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Deep Monitoring Wells	OW-01	06/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-01	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Deep Monitoring Wells	OW-01	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1) UJ
Deep Monitoring Wells	OW-10	06/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-10	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Deep Monitoring Wells	OW-10	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-13	03/23/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Deep Monitoring Wells	OW-13	06/09/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Deep Monitoring Wells	OW-13	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Deep Monitoring Wells	OW-13	12/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-12A	12/22/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1) UJ
Eastern Boundary Wells	OW-12A	03/22/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-12A	06/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-12A	09/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-12A	12/07/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-14	03/24/22	ND(5)	--	--	--	--	--	--	--	--	0.32
Eastern Boundary Wells	OW-14	06/30/22	ND(10)	--	--	--	--	--	--	--	--	0.48 J+
Eastern Boundary Wells	OW-14	09/30/22	ND(10)	--	--	--	--	--	--	--	--	0.58
Eastern Boundary Wells	OW-14	12/29/22	ND(10)	--	--	--	--	--	--	--	--	0.38
Eastern Boundary Wells	OW-29	03/08/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1) UJ
Eastern Boundary Wells	OW-29	06/09/22	ND(10) UJ	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-29	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-29	12/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-30	03/24/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-30	06/30/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-30	09/30/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-30	12/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-50	12/07/21	ND(5) R	--	--	--	--	--	--	--	--	ND(5) R
Eastern Boundary Wells	OW-50	03/08/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1) UJ
Eastern Boundary Wells	OW-50	06/09/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-50	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-50	12/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-52	12/07/21	ND(5)	--	--	--	--	--	--	--	--	ND(5)
Eastern Boundary Wells	OW-52	03/08/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1) UJ
Eastern Boundary Wells	OW-52	06/09/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-52	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-52	12/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-54	03/23/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-54	06/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-54	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-54	12/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-55	12/29/21	ND(5)	--	--	--	--	--	--	--	--	0.52
Eastern Boundary Wells	OW-55	03/23/22	ND(5)	--	--	--	--	--	--	--	--	0.38
Eastern Boundary Wells	OW-55	06/15/22	ND(10)	--	--	--	--	--	--	--	--	0.6
Eastern Boundary Wells	OW-55	09/07/22	ND(10)	--	--	--	--	--	--	--	--	0.56 J
Eastern Boundary Wells	OW-55	12/27/22	ND(10)	--	--	--	--	--	--	--	--	0.68
Eastern Boundary Wells	OW-56	12/23/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-56	03/23/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Eastern Boundary Wells	OW-56	06/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-56	09/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Eastern Boundary Wells	OW-56	12/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Eastern Boundary Wells	OW-66	03/23/22	40 J	--	--	--	--	--	--	--	--	0.28
Eastern Boundary Wells	OW-66	06/15/22	28	--	--	--	--	--	--	--	--	0.28 J
Eastern Boundary Wells	OW-66	09/07/22	48	--	--	--	--	--	--	--	--	0.24 J
Eastern Boundary Wells	OW-66	12/27/22	62	--	--	--	--	--	--	--	--	0.24 J
Eastern Boundary Wells	OW-70	12/22/21	ND(5)	--	--	--	--	--	--	--	--	0.24 J
Eastern Boundary Wells	OW-70	03/22/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1) UJ
Eastern Boundary Wells	OW-70	06/28/22	ND(10)	--	--	--	--	--	--	--	--	0.24 J
Eastern Boundary Wells	OW-70	09/15/22	ND(10)	--	--	--	--	--	--	--	--	0.18 J
Eastern Boundary Wells	OW-70	12/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
	Cleanup Levels		NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	ND(20)
Deep Monitoring Wells	OW-01	03/15/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Deep Monitoring Wells	OW-01	06/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-01	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-01	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	ND(20)
Deep Monitoring Wells	OW-10	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20) R
Deep Monitoring Wells	OW-10	06/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-10	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-10	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Deep Monitoring Wells	OW-13	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Deep Monitoring Wells	OW-13	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-13	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Deep Monitoring Wells	OW-13	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	--	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-12A	03/22/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Eastern Boundary Wells	OW-12A	06/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-12A	09/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-12A	12/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Eastern Boundary Wells	OW-14	03/24/22	--	--	0.26	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Eastern Boundary Wells	OW-14	06/30/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-14	09/30/22	--	--	0.68 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-14	12/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-29	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20) UJ
Eastern Boundary Wells	OW-29	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) UJ
Eastern Boundary Wells	OW-29	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-29	12/27/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-30	03/24/22	--	--	ND(0.1)	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Eastern Boundary Wells	OW-30	06/30/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-30	09/30/22	--	--	0.22 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-30	12/29/22	--	--	0.26 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20) UJ
Eastern Boundary Wells	OW-50	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-50	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-50	12/27/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20) R
Eastern Boundary Wells	OW-52	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-52	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-52	12/27/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-54	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Eastern Boundary Wells	OW-54	06/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-54	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-54	12/27/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-55	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Eastern Boundary Wells	OW-55	06/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-55	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-55	12/27/22	--	--	0.22 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	--	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-56	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Eastern Boundary Wells	OW-56	06/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-56	09/07/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-56	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-66	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(200)
Eastern Boundary Wells	OW-66	06/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-66	09/07/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-66	12/27/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	--	--	--	--	--	ND(20)
Eastern Boundary Wells	OW-70	03/22/22	--	--	ND(0.1) UJ	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Eastern Boundary Wells	OW-70	06/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-70	09/15/22	--	--	0.18 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Eastern Boundary Wells	OW-70	12/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Deep Monitoring Wells	OW-01	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-01	09/27/22	--	--	--	--	9 J	--	--	ND(0.3) UJ	--	--
Deep Monitoring Wells	OW-01	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	--	--	--	ND(10) R	--	--	ND(0.1)	--	--
Deep Monitoring Wells	OW-10	06/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-10	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Deep Monitoring Wells	OW-10	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	ND(15)	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	ND(10)	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Deep Monitoring Wells	OW-13	06/09/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-13	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Deep Monitoring Wells	OW-13	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Eastern Boundary Wells	OW-12A	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-12A	06/28/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Eastern Boundary Wells	OW-12A	09/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-12A	12/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Eastern Boundary Wells	OW-14	06/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-14	09/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-14	12/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	--	--	--	ND(10) UJ	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-29	06/09/22	--	--	--	--	ND(10) UJ	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-29	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-29	12/27/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Eastern Boundary Wells	OW-30	06/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-30	09/30/22	--	--	--	--	8.6 J	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-30	12/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-50	12/07/21	ND(5) R	--	--	--	ND(10) R	--	ND(5) R	--	--	ND(5) R
Eastern Boundary Wells	OW-50	03/08/22	--	--	--	--	ND(10) UJ	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-50	06/09/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-50	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-50	12/27/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-52	12/07/21	ND(5)	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Eastern Boundary Wells	OW-52	03/08/22	--	--	--	--	ND(10) R	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-52	06/09/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-52	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-52	12/27/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Eastern Boundary Wells	OW-54	03/23/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-54	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-54	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-54	12/27/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	--	12	--	ND(5)	--	--	ND(5)
Eastern Boundary Wells	OW-55	03/23/22	--	--	--	--	4.6 J	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-55	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-55	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-55	12/27/22	--	--	--	--	10	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Eastern Boundary Wells	OW-56	03/23/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-56	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-56	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-56	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	--	--	--	ND(100)	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-66	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-66	09/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-66	12/27/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	ND(10)	--	0.76 J	--	--	ND(5)
Eastern Boundary Wells	OW-70	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Eastern Boundary Wells	OW-70	06/28/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Eastern Boundary Wells	OW-70	09/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Eastern Boundary Wells	OW-70	12/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	ND(10)	ND(10)	18	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(10) R	ND(10) R	ND(10) R	ND(20) R	ND(0.2)	ND(0.1)	--	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	ND(10)	--	ND(20)	ND(0.2) UJ	ND(0.1) UJ	--	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.16 J	--	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.12 J	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	0.56	--	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.68 J+	--	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	0.78 J+	--	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.58	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(20) UJ	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	ND(10) UJ	ND(10) UJ	9.7 J-	ND(20) UJ	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	--	ND(10) R	--	ND(20) R	ND(10) R	ND(5) R	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(20) UJ	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	--	ND(10)	--	3.2 J	ND(10)	ND(5)	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	ND(10) R	ND(10) R	ND(10) R	ND(20) R	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	ND(10)	--	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	--	ND(10)	--	ND(20)	ND(0.2)	1.4	--	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	1.1	--	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.8	--	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.6 J	--	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	2.1	--	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	--	ND(10)	--	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(0.2)	0.84	--	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.86	--	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.74 J	--	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.72	--	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	ND(10)	--	ND(20)	ND(0.2)	ND(0.1) UJ	--	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
	Cleanup Levels		0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	ND(0.3)	--	0.14	--	--	--	--	--	0.08 J	ND(5)
Deep Monitoring Wells	OW-01	06/15/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Deep Monitoring Wells	OW-01	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Deep Monitoring Wells	OW-01	12/22/22	ND(0.3)	--	ND(5)	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5) R
Deep Monitoring Wells	OW-10	06/08/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-10	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Deep Monitoring Wells	OW-10	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-13	03/23/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Deep Monitoring Wells	OW-13	06/09/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-13	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Deep Monitoring Wells	OW-13	12/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1) UJ	15
Eastern Boundary Wells	OW-12A	03/22/22	ND(0.3)	--	5.1	--	--	--	--	--	ND(0.1)	7.8
Eastern Boundary Wells	OW-12A	06/28/22	ND(0.3)	--	2.8 J	--	--	--	--	--	ND(0.3) UJ	ND(20) UJ
Eastern Boundary Wells	OW-12A	09/15/22	ND(0.3)	--	3.4	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-12A	12/07/22	ND(0.3)	--	3.4 J	--	--	--	--	--	ND(0.3)	ND(20) R
Eastern Boundary Wells	OW-14	03/24/22	ND(0.3) UJ	--	13	--	--	--	--	--	0.22 J	34
Eastern Boundary Wells	OW-14	06/30/22	ND(0.3)	--	15	--	--	--	--	--	0.36 J+	38
Eastern Boundary Wells	OW-14	09/30/22	ND(0.3) UJ	--	15 J+	--	--	--	--	--	0.44	43
Eastern Boundary Wells	OW-14	12/29/22	ND(0.3)	--	11	--	--	--	--	--	0.34	33
Eastern Boundary Wells	OW-29	03/08/22	--	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5) R
Eastern Boundary Wells	OW-29	06/09/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Eastern Boundary Wells	OW-29	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-29	12/27/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-30	03/24/22	ND(0.3) UJ	--	ND(0.1)	--	--	--	--	--	ND(0.1) UJ	ND(5)
Eastern Boundary Wells	OW-30	06/30/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-30	09/30/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-30	12/29/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-50	12/07/21	--	--	ND(5) R	--	--	--	--	--	ND(5) R	ND(5) R
Eastern Boundary Wells	OW-50	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5) R
Eastern Boundary Wells	OW-50	06/09/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-50	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-50	12/27/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-52	12/07/21	--	--	ND(5)	--	--	--	--	--	ND(5)	ND(5)
Eastern Boundary Wells	OW-52	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5) R
Eastern Boundary Wells	OW-52	06/09/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-52	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-52	12/27/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	0.3	--	--	--	--	--	ND(0.1)	ND(5)
Eastern Boundary Wells	OW-54	03/23/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Eastern Boundary Wells	OW-54	06/15/22	ND(0.3)	--	0.2 J	--	--	--	--	--	ND(0.3)	ND(20) UJ
Eastern Boundary Wells	OW-54	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-54	12/27/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-55	12/29/21	--	--	18	--	--	--	--	--	1.1	45
Eastern Boundary Wells	OW-55	03/23/22	ND(0.3)	--	29	--	--	--	--	--	0.84	44
Eastern Boundary Wells	OW-55	06/15/22	ND(0.3)	--	22	--	--	--	--	--	1.5	24 J
Eastern Boundary Wells	OW-55	09/07/22	ND(0.3)	--	19 J	--	--	--	--	--	1.3	33
Eastern Boundary Wells	OW-55	12/27/22	ND(0.3)	--	22	--	--	--	--	--	2	24
Eastern Boundary Wells	OW-56	12/23/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Eastern Boundary Wells	OW-56	03/23/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Eastern Boundary Wells	OW-56	06/15/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Eastern Boundary Wells	OW-56	09/07/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-56	12/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Eastern Boundary Wells	OW-66	03/23/22	ND(0.3)	--	150	--	--	--	--	--	1.2	46 J
Eastern Boundary Wells	OW-66	06/15/22	ND(0.3)	--	130	--	--	--	--	--	0.94	32 J
Eastern Boundary Wells	OW-66	09/07/22	ND(0.3)	--	160 J	--	--	--	--	--	1.1	41
Eastern Boundary Wells	OW-66	12/27/22	ND(0.3)	--	190	--	--	--	--	--	0.84	46
Eastern Boundary Wells	OW-70	12/22/21	--	--	0.28 J	--	--	--	--	--	0.9 J	ND(5)
Eastern Boundary Wells	OW-70	03/22/22	ND(0.3)	--	0.18 J	--	--	--	--	--	0.8	ND(5)
Eastern Boundary Wells	OW-70	06/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	0.62 J	ND(20) UJ
Eastern Boundary Wells	OW-70	09/15/22	ND(0.3)	--	1.3 J	--	--	--	--	--	0.4	29
Eastern Boundary Wells	OW-70	12/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	0.46	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
	Cleanup Levels		117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	0.24U/ND(0.4)U*	ND(10)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	0.32 J	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	ND(0.2)	ND(10) R	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/30/21	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	ND(0.2) UJ	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	ND(0.2)	ND(10) UJ	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	ND(1)	ND(60) UJ	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	ND(0.2) UJ	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	ND(5) R	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	ND(0.2)	ND(10) UJ	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	ND(5)	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	ND(0.2)	ND(10) R	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	0.22	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	0.24	ND(100)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	--	--	ND(53.9) UJ	ND(53.9) UJ	ND(53.9) UJ	ND(53.9) UJ
Evaporation Ponds	EP-2	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	--	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-2	12/15/21	--	--	--	--	--	ND(6.6)	--	--	--	ND(50)
Evaporation Ponds	EP-2	06/24/22	--	--	--	ND(500) UJ	ND(100)	ND(30)	--	ND(1000)	--	ND(1000)
Evaporation Ponds	EP-2	09/09/22	--	--	--	ND(50)	ND(10) UJ	ND(3)	--	ND(100)	--	ND(100)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	--	--	ND(10.5) UJ	ND(10.5) UJ	ND(10.5) UJ	ND(10.5) UJ
Evaporation Ponds	EP-3	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	--	ND(0.45)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	--	--	ND(10.7) UJ	ND(10.7) UJ	ND(10.7) UJ	ND(10.7) UJ
Evaporation Ponds	EP-4	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(1000)	--	ND(13)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	--	--	ND(11.2) UJ	ND(11.2) UJ	ND(11.2) UJ	ND(11.2) UJ
Evaporation Ponds	EP-5	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	--	ND(10)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-5	12/15/21	--	--	--	--	--	ND(5.9)	--	--	--	ND(50)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	--	--	ND(10.5) UJ	ND(10.5) UJ	ND(10.5) UJ	ND(10.5) UJ
Evaporation Ponds	EP-6	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	--	ND(6.2)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-6	12/15/21	--	--	--	--	--	ND(6.7)	--	--	--	ND(5)
Evaporation Ponds	EP-6	06/24/22	--	--	--	ND(200) UJ	ND(40)	ND(12)	--	ND(400)	--	ND(400)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	--	--	ND(9.65) UJ	ND(9.65) UJ	ND(9.65) UJ	ND(9.65) UJ
Evaporation Ponds	EP-7	06/21/21	ND(5) R	ND(5) R	ND(5) R	ND(5) R	--	ND(20)	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3) UJ	ND(11.3)	ND(11.3)	ND(11.3)	--	--	ND(11.3) UJ	ND(11.3) UJ	ND(11.3) UJ	ND(11.3)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	--	--	ND(0.1)	--	--	--	ND(50)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	--	--	ND(9.75) UJ	ND(9.75) UJ	ND(9.75) UJ	ND(9.75) UJ
Evaporation Ponds	EP-9	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	--	ND(20)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-9	12/15/21	--	--	--	--	--	ND(0.12) UJ	--	--	--	ND(5)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9) UJ	ND(20.9)	ND(20.9)	ND(20.9)	--	--	ND(20.9) UJ	ND(20.9) UJ	ND(20.9) UJ	ND(20.9)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5) UJ	ND(11.5)	ND(11.5)	ND(11.5)	--	--	ND(11.5) UJ	ND(11.5) UJ	ND(11.5) UJ	ND(11.5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3) UJ	ND(23.3)	ND(23.3)	ND(23.3)	--	--	ND(23.3) UJ	ND(23.3) UJ	ND(23.3) UJ	ND(23.3)
Evaporation Ponds	EP-12B	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	--	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	--	ND(50)	ND(10)	ND(1)	--	ND(50)	--	ND(50)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	--	ND(50) UJ	ND(10)	ND(3)	--	ND(100)	--	ND(100)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	--	ND(50)	ND(10) UJ	ND(3)	--	ND(100)	--	ND(100)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	ND(1)	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	OW-67	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	--	ND(0.1) UJ	ND(5)	ND(5)	ND(5)	ND(5) UJ
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	--	--	ND(5)	4.8	ND(0.3)	--	ND(10) R	--	ND(10) R
Land Treatment Unit Wells	OW-67	09/20/22	--	--	--	ND(5)	4.7	ND(0.3)	--	ND(10) R	--	ND(10) R
Land Treatment Unit Wells	OW-67	12/28/22	--	--	--	ND(5)	4.1	ND(0.3)	--	ND(10) R	--	ND(10) R
Land Treatment Unit Wells	OW-68	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	--	ND(0.1) UJ	ND(5)	ND(5)	ND(5)	ND(5) UJ
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	--	--	--	ND(5)	6.5	ND(0.3)	--	ND(10) R	--	ND(10) R

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Evaporation Ponds	EP-2	12/21/20	ND(162) UJ	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9) UJ	--	ND(53.9) UJ	ND(53.9)	ND(53.9) UJ	ND(53.9)
Evaporation Ponds	EP-2	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-2	12/15/21	--	--	--	--	--	ND(6.6)	ND(50)	--	ND(50)	--
Evaporation Ponds	EP-2	06/24/22	ND(2000)	--	--	--	--	ND(30)	ND(1000)	--	--	--
Evaporation Ponds	EP-2	09/09/22	ND(200)	--	--	--	--	ND(3)	ND(100)	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(31.4) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	--	ND(10.5) UJ	ND(10.5)	ND(10.5) UJ	ND(10.5)
Evaporation Ponds	EP-3	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(0.45)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(32.2) UJ	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7) UJ	--	ND(10.7) UJ	ND(10.7)	ND(10.7) UJ	ND(10.7)
Evaporation Ponds	EP-4	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(13)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(33.6) UJ	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2) UJ	--	ND(11.2) UJ	ND(11.2)	ND(11.2) UJ	ND(11.2)
Evaporation Ponds	EP-5	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(10)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-5	12/15/21	--	--	--	--	--	ND(5.9)	ND(50)	--	ND(50)	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(31.6) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	--	ND(10.5) UJ	ND(10.5)	ND(10.5) UJ	ND(10.5)
Evaporation Ponds	EP-6	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(6.2)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-6	12/15/21	--	--	--	--	--	ND(6.7) UJ	ND(5)	--	ND(5)	--
Evaporation Ponds	EP-6	06/24/22	ND(800)	--	--	--	--	ND(12)	ND(400)	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(29) UJ	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65) UJ	--	ND(9.65) UJ	ND(9.65)	ND(9.65) UJ	ND(9.65)
Evaporation Ponds	EP-7	06/21/21	ND(5) UJ	ND(5) R	ND(5) R	ND(5) R	ND(5) UJ	ND(20)	ND(5) UJ	ND(5) R	ND(5) UJ	ND(5) R
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(33.9)	ND(11.3) UJ	ND(11.3) UJ	ND(11.3) UJ	ND(11.3)	--	ND(11.3)	ND(11.3)	ND(11.3) UJ	ND(11.3)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	--	--	--	ND(0.1)	ND(50)	--	ND(50)	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(29.3) UJ	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75) UJ	--	ND(9.75) UJ	ND(9.75)	ND(9.75) UJ	ND(9.75)
Evaporation Ponds	EP-9	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(20)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-9	12/15/21	--	--	--	--	--	0.24 J	ND(5)	--	ND(5)	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9) UJ	ND(20.9) UJ	ND(20.9) UJ	ND(20.9) UJ	ND(20.9)	--	ND(20.9)	ND(20.9)	ND(20.9) UJ	ND(20.9)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(34.6)	ND(11.5) UJ	ND(11.5) UJ	ND(11.5) UJ	ND(11.5)	--	ND(11.5)	ND(11.5)	ND(11.5) UJ	ND(11.5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(70)	ND(23.3) UJ	ND(23.3) UJ	ND(23.3) UJ	ND(23.3)	--	ND(23.3)	ND(23.3)	ND(23.3) UJ	ND(23.3)
Evaporation Ponds	EP-12B	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(50)	--	--	--	--	ND(1)	ND(50)	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(200)	--	--	--	--	ND(3)	ND(100)	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(200)	--	--	--	--	ND(3)	ND(100)	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51) UJ	ND(0.51)	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.2) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51) UJ	ND(0.51)	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(0.1) UJ	ND(5)	ND(5)	ND(5)	ND(5)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(0.1) UJ	ND(5)	ND(5)	ND(5)	ND(5)
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
	Cleanup Levels		370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Evaporation Ponds	EP-2	12/21/20	--	ND(53.9)	ND(53.9) UJ	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9) UJ	ND(53.9)
Evaporation Ponds	EP-2	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(20)
Evaporation Ponds	EP-2	12/15/21	ND(50)	--	--	--	--	--	--	--	ND(50)	--
Evaporation Ponds	EP-2	06/24/22	ND(1000)	--	--	--	--	--	--	--	--	ND(30)
Evaporation Ponds	EP-2	09/09/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	--	ND(10.5)	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5)
Evaporation Ponds	EP-3	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(0.45)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	--	ND(10.7)	ND(10.7) UJ	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7) UJ	ND(10.7)
Evaporation Ponds	EP-4	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(13)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	--	ND(11.2)	ND(11.2) UJ	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2) UJ	ND(11.2)
Evaporation Ponds	EP-5	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(10)
Evaporation Ponds	EP-5	12/15/21	ND(50)	--	--	--	--	--	--	--	ND(50)	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	--	ND(10.5)	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5)
Evaporation Ponds	EP-6	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(6.2)
Evaporation Ponds	EP-6	12/15/21	ND(5)	--	--	--	--	--	--	--	ND(5)	--
Evaporation Ponds	EP-6	06/24/22	ND(400)	--	--	--	--	--	--	--	--	ND(12)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	--	ND(9.65)	ND(9.65) UJ	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65) UJ	ND(9.65)
Evaporation Ponds	EP-7	06/21/21	ND(5) UJ	ND(5) R	ND(5) UJ	ND(5) R	ND(5) UJ	ND(5) R	ND(5) R	ND(5) R	ND(5) UJ	ND(20)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	--	ND(11.3)	ND(11.3)	ND(11.3) UJ	ND(11.3)	ND(11.3)	ND(11.3) UJ	ND(11.3)	ND(11.3)	ND(11.3) UJ
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	ND(50)	--	--	--	--	--	--	--	ND(50)	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	--	ND(9.75)	ND(9.75) UJ	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75) UJ	ND(9.75)
Evaporation Ponds	EP-9	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(20)
Evaporation Ponds	EP-9	12/15/21	ND(5)	--	--	--	--	--	--	--	ND(5)	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	--	ND(20.9)	ND(20.9)	ND(20.9) UJ	ND(20.9)	ND(20.9)	ND(20.9) UJ	ND(20.9)	ND(20.9)	ND(20.9) UJ
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	--	ND(11.5)	ND(11.5)	ND(11.5) UJ	ND(11.5)	ND(11.5)	ND(11.5) UJ	ND(11.5)	ND(11.5)	ND(11.5) UJ
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	--	ND(23.3)	ND(23.3)	ND(23.3) UJ	ND(23.3)	ND(23.3)	ND(23.3) UJ	ND(23.3)	ND(23.3)	ND(23.3) UJ
Evaporation Ponds	EP-12B	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(20)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(50)	--	--	--	--	--	--	--	--	ND(1)
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Land Treatment Unit Wells	OW-67	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(0.1)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	OW-67	09/20/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	OW-67	12/28/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	OW-68	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	0.2
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	ND(10) R	--	--	--	--	--	--	--	--	0.58

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
	Cleanup Levels		NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9) R	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(162)
Evaporation Ponds	EP-2	06/21/21	ND(20)	ND(500)	ND(20)	ND(500)	ND(20)	ND(14)	ND(20)	ND(20)	ND(20)	ND(500)
Evaporation Ponds	EP-2	12/15/21	--	ND(50)	--	--	--	ND(4.6)	ND(6.6)	ND(6.6)	--	ND(200)
Evaporation Ponds	EP-2	06/24/22	--	--	ND(30)	--	ND(30)	--	ND(30)	--	--	ND(2000)
Evaporation Ponds	EP-2	09/09/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5) R	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(31.4)
Evaporation Ponds	EP-3	06/21/21	ND(0.45)	ND(500)	ND(0.45)	ND(500)	ND(0.45)	ND(0.32)	ND(0.45)	ND(0.45)	ND(0.45)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7) R	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(32.2)
Evaporation Ponds	EP-4	06/21/21	ND(13)	ND(1000)	ND(13)	ND(1000)	ND(13)	ND(9.3)	ND(13)	ND(13)	ND(13)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2) R	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(33.6)
Evaporation Ponds	EP-5	06/21/21	ND(10)	ND(100)	ND(10)	ND(100)	ND(10)	ND(7)	ND(10)	ND(10)	ND(10)	ND(100)
Evaporation Ponds	EP-5	12/15/21	--	ND(50)	--	--	--	ND(4.1)	ND(5.9)	ND(5.9)	--	ND(200)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5) R	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(31.6)
Evaporation Ponds	EP-6	06/21/21	ND(6.2)	ND(100)	ND(6.2)	ND(100)	ND(6.2)	ND(4.4)	ND(6.2)	ND(6.2)	ND(6.2)	ND(100)
Evaporation Ponds	EP-6	12/15/21	--	ND(5)	--	--	--	ND(4.7)	ND(6.7)	ND(6.7)	--	ND(20)
Evaporation Ponds	EP-6	06/24/22	--	--	ND(12)	--	ND(12)	--	ND(12)	--	--	ND(800)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65) R	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(29)
Evaporation Ponds	EP-7	06/21/21	ND(20)	ND(5) R	ND(20)	ND(5) R	ND(20)	ND(14)	ND(20)	ND(20)	ND(20)	ND(5) R
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3) UJ	ND(11.3) R	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(33.9) UJ
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	ND(50)	--	--	--	ND(0.07)	ND(0.1)	ND(0.1)	--	ND(200)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75) R	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(29.3)
Evaporation Ponds	EP-9	06/21/21	ND(20)	ND(100)	ND(20)	ND(100)	ND(20)	ND(14)	ND(20)	ND(20)	ND(20)	ND(100)
Evaporation Ponds	EP-9	12/15/21	--	ND(5)	--	--	--	ND(0.082) UJ	ND(0.12) UJ	ND(0.12) UJ	--	ND(20)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9) UJ	ND(20.9) R	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(62.6) UJ
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5) UJ	ND(11.5) R	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(34.6) UJ
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3) UJ	ND(23.3) R	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(70) UJ
Evaporation Ponds	EP-12B	06/21/21	ND(20)	ND(500)	ND(20)	ND(500)	ND(20)	ND(14)	ND(20)	ND(20)	ND(20)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	ND(1)	--	ND(1)	--	ND(1)	--	--	ND(200)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	6.6
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51)	ND(0.51)	ND(0.51)	--	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	MW-1	09/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	6.8
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	--	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.51)	ND(0.51)	1.1/ND(1.1)U*
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	MW-2	09/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	6.5
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	--	ND(0.1) UJ	ND(0.1) UJ	ND(0.1) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	MW-4	09/30/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	7
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	--	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.51)	ND(0.51)	3.3
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	MW-5	09/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Land Treatment Unit Wells	OW-67	09/17/21	ND(0.1)	ND(5)	ND(0.1)	ND(5)	ND(0.1)	ND(0.07)	ND(0.1)	ND(0.1)	ND(0.1)	ND(20)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	OW-67	06/16/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20) R
Land Treatment Unit Wells	OW-67	09/20/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) R
Land Treatment Unit Wells	OW-67	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Land Treatment Unit Wells	OW-68	09/17/21	ND(0.1)	ND(5)	ND(0.1)	ND(5)	ND(0.1)	ND(0.07)	ND(0.1)	ND(0.1)	ND(0.1)	ND(20)
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	ND(200)
Land Treatment Unit Wells	OW-68	06/16/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20) R

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9)
Evaporation Ponds	EP-2	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(1000)	ND(500)	ND(500)	ND(20)	ND(20)	ND(500)
Evaporation Ponds	EP-2	12/15/21	ND(50)	--	--	--	ND(100)	--	ND(50)	ND(6.6) UJ	--	--
Evaporation Ponds	EP-2	06/24/22	--	--	--	--	ND(1000)	--	--	ND(30)	--	--
Evaporation Ponds	EP-2	09/09/22	--	--	--	--	ND(100)	--	--	ND(3) UJ	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)
Evaporation Ponds	EP-3	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(1000)	ND(500)	ND(500)	ND(0.45)	ND(0.45)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7)
Evaporation Ponds	EP-4	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(2000)	ND(1000)	ND(1000)	ND(13)	ND(13)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2)
Evaporation Ponds	EP-5	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(200)	ND(100)	ND(100)	ND(10)	ND(10)	ND(100)
Evaporation Ponds	EP-5	12/15/21	ND(50)	--	--	--	ND(100)	--	ND(50)	ND(5.9) UJ	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5)
Evaporation Ponds	EP-6	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(200)	ND(100)	ND(100)	ND(6.2)	ND(6.2)	ND(100)
Evaporation Ponds	EP-6	12/15/21	ND(5)	--	--	--	ND(10)	--	ND(5)	ND(6.7) UJ	--	--
Evaporation Ponds	EP-6	06/24/22	--	--	--	--	ND(400)	--	--	ND(12)	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65)
Evaporation Ponds	EP-7	06/21/21	ND(5) R	ND(5) R	ND(5) R	ND(5) R	9.5 J-	4.9 J-	ND(5) R	ND(20)	ND(20)	ND(5) R
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3) UJ
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	ND(50)	--	--	--	ND(100)	--	ND(50)	ND(0.1)	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75)
Evaporation Ponds	EP-9	06/21/21	ND(100)	ND(100)	ND(100)	ND(100)	ND(200)	ND(100)	ND(100)	ND(20)	ND(20)	ND(100)
Evaporation Ponds	EP-9	12/15/21	ND(5)	--	--	--	ND(10)	--	ND(5)	0.094 J	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9) UJ
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5) UJ
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3) UJ
Evaporation Ponds	EP-12B	06/21/21	ND(500)	ND(500)	ND(500)	ND(500)	ND(1000)	ND(500)	ND(20)	ND(20)	ND(20)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	--	--	ND(100)	--	--	ND(1)	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	--	--	ND(100)	--	--	ND(3)	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	--	--	ND(100)	--	--	ND(3) UJ	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	0.77	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.03)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.03)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	0.28 J	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.03) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.1	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(10)	ND(10)	18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.031)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	OW-67	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(0.1)	ND(0.1)	ND(5)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	OW-67	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	OW-67	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	OW-68	09/17/21	ND(5)	ND(5)	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(0.1)	ND(0.1)	ND(5)
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	ND(100)	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9)	ND(53.9) UJ	ND(53.9) UJ	ND(53.9)	ND(53.9)	ND(53.9) UJ	--	ND(108)	ND(53.9)
Evaporation Ponds	EP-2	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(2000)	ND(40)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-2	12/15/21	ND(100)	ND(100)	--	ND(200)	ND(13)	ND(6.6)	--	--	--	--
Evaporation Ponds	EP-2	06/24/22	ND(1000)	ND(1000)	ND(1000)	ND(2000)	ND(30)	ND(30)	--	--	--	--
Evaporation Ponds	EP-2	09/09/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5) UJ	--	ND(20.9)	ND(10.5)
Evaporation Ponds	EP-3	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(2000)	ND(0.91)	ND(0.45)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7)	ND(10.7) UJ	ND(10.7) UJ	ND(10.7)	ND(10.7)	ND(10.7) UJ	--	ND(21.4)	ND(10.7)
Evaporation Ponds	EP-4	06/21/21	ND(2000)	ND(2000)	ND(2000)	ND(4000)	ND(27)	ND(13)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2)	ND(11.2) UJ	ND(11.2) UJ	ND(11.2)	ND(11.2)	ND(11.2) UJ	--	ND(22.4)	ND(11.2)
Evaporation Ponds	EP-5	06/21/21	ND(200)	ND(200)	ND(200)	ND(400)	ND(20)	ND(10)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-5	12/15/21	ND(100)	ND(100)	--	ND(200)	ND(12)	ND(5.9)	--	--	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5) UJ	--	ND(21.1)	ND(10.5)
Evaporation Ponds	EP-6	06/21/21	ND(200)	ND(200)	ND(200)	ND(400)	ND(12)	ND(6.2)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-6	12/15/21	ND(10)	ND(10)	--	ND(20)	ND(13)	ND(6.7) UJ	--	--	--	--
Evaporation Ponds	EP-6	06/24/22	ND(400)	ND(400)	ND(400)	ND(800)	ND(12)	--	--	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65)	ND(9.65) UJ	ND(9.65) UJ	ND(9.65)	ND(9.65)	ND(9.65) UJ	--	ND(19.3)	ND(9.65)
Evaporation Ponds	EP-7	06/21/21	ND(10) R	ND(10) R	7.2 J-	ND(20) R	ND(40)	ND(20)	ND(5) R	ND(5) R	ND(5) R	ND(5) R
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3)	ND(11.3) UJ	ND(11.3)	ND(11.3)	ND(11.3) UJ	ND(11.3) UJ	ND(11.3) UJ	--	ND(22.6) UJ	ND(11.3)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	ND(100)	ND(100)	--	ND(200)	ND(0.2)	ND(0.1)	--	--	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75)	ND(9.75) UJ	ND(9.75) UJ	ND(9.75)	ND(9.75)	ND(9.75) UJ	--	ND(19.5)	ND(9.75)
Evaporation Ponds	EP-9	06/21/21	ND(200)	ND(200)	ND(200)	ND(400)	ND(40)	ND(20)	ND(100)	ND(100)	ND(100)	ND(100)
Evaporation Ponds	EP-9	12/15/21	ND(10)	ND(10)	--	ND(20)	ND(0.24) UJ	--	--	--	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9)	ND(20.9) UJ	ND(20.9)	ND(20.9)	ND(20.9) UJ	ND(20.9) UJ	ND(20.9) UJ	--	ND(41.7) UJ	ND(20.9)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5)	ND(11.5) UJ	ND(11.5)	ND(11.5)	ND(11.5) UJ	ND(11.5) UJ	ND(11.5) UJ	--	ND(23.1) UJ	ND(11.5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3)	ND(23.3) UJ	ND(23.3)	ND(23.3)	ND(23.3) UJ	ND(23.3) UJ	ND(23.3) UJ	--	ND(46.6) UJ	ND(23.3)
Evaporation Ponds	EP-12B	06/21/21	ND(1000)	ND(1000)	ND(1000)	ND(2000)	ND(40)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(2)	ND(1)	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	ND(5)	ND(5)	ND(5)	ND(5)
Land Treatment Unit Wells	OW-67	12/23/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	ND(5)	ND(5)	ND(5)	ND(5)
Land Treatment Unit Wells	OW-68	12/23/21	ND(100)	ND(100)	--	ND(200)	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
	Cleanup Levels		0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9)	ND(53.9)	ND(53.9) UJ	ND(53.9)	ND(53.9)	ND(53.9)	ND(108)	ND(53.9)	ND(53.9) UJ
Evaporation Ponds	EP-2	06/21/21	ND(60)	ND(500)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)	ND(2000)	ND(20)	ND(500)
Evaporation Ponds	EP-2	12/15/21		--	ND(20)	--	--	--	--	--	ND(6.6)	ND(50)
Evaporation Ponds	EP-2	06/24/22	ND(30)	--	ND(30)	--	--	--	--	--	ND(30)	ND(2000) UJ
Evaporation Ponds	EP-2	09/09/22	ND(3)	--	ND(3)	--	--	--	--	--	ND(3)	ND(200)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(20.9)	ND(10.5)	ND(10.5) UJ
Evaporation Ponds	EP-3	06/21/21	ND(1.4)	ND(500)	ND(0.45)	ND(500)	ND(500)	ND(500)	ND(500)	ND(2000)	ND(0.45)	ND(500)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7)	ND(10.7)	ND(10.7) UJ	ND(10.7)	ND(10.7)	ND(10.7)	ND(21.4)	ND(10.7)	ND(10.7) UJ
Evaporation Ponds	EP-4	06/21/21	ND(40)	ND(1000)	ND(13)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(4000)	ND(13)	ND(1000)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2)	ND(11.2)	ND(11.2) UJ	ND(11.2)	ND(11.2)	ND(11.2)	ND(22.4)	ND(11.2)	ND(11.2) UJ
Evaporation Ponds	EP-5	06/21/21	ND(30)	ND(100)	ND(10)	ND(100)	ND(100)	ND(100)	ND(100)	ND(400)	ND(10)	ND(100)
Evaporation Ponds	EP-5	12/15/21	ND(18)	--	ND(5.9)	--	--	--	--	--	ND(5.9)	ND(50)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5)	ND(10.5)	ND(10.5) UJ	ND(10.5)	ND(10.5)	ND(10.5)	ND(21.1)	ND(10.5)	ND(10.5) UJ
Evaporation Ponds	EP-6	06/21/21	ND(19)	ND(100)	ND(6.2)	ND(100)	ND(100)	ND(100)	ND(100)	ND(400)	ND(6.2)	ND(100)
Evaporation Ponds	EP-6	12/15/21	ND(20)	--	ND(6.7) UJ	--	--	--	--	--	ND(6.7) UJ	ND(5)
Evaporation Ponds	EP-6	06/24/22	ND(12)	--	ND(12)	--	--	--	--	--	ND(12)	ND(800) UJ
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65)	ND(9.65)	ND(9.65) UJ	ND(9.65)	ND(9.65)	ND(9.65)	ND(19.3)	ND(9.65)	ND(9.65) UJ
Evaporation Ponds	EP-7	06/21/21	ND(60)	ND(5) R	ND(20)	ND(5) R	ND(5) R	ND(5) R	ND(5) R	ND(20) UJ	ND(20)	ND(5) UJ
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(11.3)	ND(22.6)	ND(11.3)	ND(11.3)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(50)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75)	ND(9.75)	ND(9.75) UJ	ND(9.75)	ND(9.75)	ND(9.75)	ND(19.5)	ND(9.75)	ND(9.75) UJ
Evaporation Ponds	EP-9	06/21/21	ND(60)	ND(100)	ND(20)	ND(100)	ND(100)	ND(100)	ND(100)	ND(400)	ND(20)	ND(100)
Evaporation Ponds	EP-9	12/15/21	ND(0.35) UJ	--	5.4 J	--	--	--	--	--	0.54 J	ND(5)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(20.9)	ND(41.7)	ND(20.9)	ND(20.9)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(11.5)	ND(23.1)	ND(11.5)	ND(11.5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(23.3)	ND(46.6)	ND(23.3)	ND(23.3)
Evaporation Ponds	EP-12B	06/21/21	ND(60)	ND(500)	ND(20)	ND(500)	ND(500)	ND(500)	ND(500)	ND(2000)	ND(20)	ND(500)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(3)	--	ND(1)	--	--	--	--	--	ND(1)	ND(50)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	ND(3)	--	--	--	--	--	--	ND(3)	ND(200) UJ
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(3)	--	ND(3)	--	--	--	--	--	ND(3)	ND(200)
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-1	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	--	--	--	--	--	--	ND(5)
Land Treatment Unit Wells	MW-2	09/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.2) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	OW-67	09/17/21	ND(0.3)	ND(5)	ND(0.1)	ND(5)	ND(5)	ND(5)	ND(5)	ND(20)	ND(0.1) UJ	ND(5) UJ
Land Treatment Unit Wells	OW-67	12/23/21	--	--	--	--	--	--	--	--	--	ND(5)
Land Treatment Unit Wells	OW-67	06/16/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Land Treatment Unit Wells	OW-67	09/20/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Land Treatment Unit Wells	OW-67	12/28/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Land Treatment Unit Wells	OW-68	09/17/21	ND(0.3)	ND(5)	ND(0.1)	ND(5)	ND(5)	ND(5)	ND(5)	ND(20)	ND(0.1) UJ	ND(5) UJ
Land Treatment Unit Wells	OW-68	12/23/21	--	--	--	--	--	--	--	--	--	ND(50)
Land Treatment Unit Wells	OW-68	06/16/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
	Cleanup Levels		117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Evaporation Ponds	EP-2	12/21/20	ND(53.9)	ND(53.9)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	06/21/21	ND(40)	ND(500)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	12/15/21	ND(13) UJ	ND(50) UJ	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	06/24/22	ND(100)	ND(4000)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	09/09/22	ND(10) UJ	ND(400)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	ND(10.5)	ND(10.5)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-3	06/21/21	1.5	ND(500)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(10.7)	ND(10.7)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-4	06/21/21	ND(27)	ND(1000)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(11.2)	ND(11.2)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-5	06/21/21	ND(20)	ND(100)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-5	12/15/21	ND(12) UJ	ND(50) UJ	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(10.5)	ND(10.5)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-6	06/21/21	ND(12)	ND(100)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-6	12/15/21	ND(13) UJ	ND(5) UJ	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-6	06/24/22	ND(40)	ND(1600)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(9.65)	ND(9.65)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-7	06/21/21	ND(40)	ND(5) R	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(11.3)	ND(11.3)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	ND(0.2)	ND(400) UJ	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(9.75)	ND(9.75)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-9	06/21/21	ND(40)	ND(100)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-9	12/15/21	0.19 J	ND(5) UJ	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(20.9)	ND(20.9)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	ND(11.5)	ND(11.5)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(23.3)	ND(23.3)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-12B	06/21/21	ND(40)	ND(500)	--	--	--	--	--	--	--	--
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	03/18/22	ND(2)	ND(100)	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	ND(10)	ND(400)	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	ND(10) UJ	ND(400)	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/22/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/18/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/17/21	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/18/20	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/17/21	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/21/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/21	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	ND(0.2)	ND(5)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	12/23/21	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	0.18J/ND(0.2)U*	ND(5)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	12/23/21	ND(50)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	06/16/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Land Treatment Unit Wells	OW-68	09/20/22	--	--	--	ND(5)	5.4	ND(0.3)	--	ND(10) R	--	ND(10) R
Land Treatment Unit Wells	OW-68	12/28/22	--	--	--	ND(5)	4.1	ND(0.3)	--	ND(10) R	--	ND(10) R
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	9.1	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	--	ND(5)	8.3	ND(0.3)	--	ND(10)	--	ND(10)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	--	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(1) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	ND(1)	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	--	ND(5)	--	18 J	--	ND(5)	--	2.6 J
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	--	ND(5)	14	14	--	ND(5)	--	4 J
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	--	ND(5)	160	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	--	ND(5)	110	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	--	ND(5)	23 J	10 J	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	--	ND(5)	31	8.7	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	--	ND(5)	--	43	--	ND(5)	--	15
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	--	ND(5)	3.6	43	--	ND(5) R	--	16 J-
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	--	ND(7.1)	6.6 J	4	--	ND(7.1)	--	3.9 J
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	--	ND(5)	5.7	4.4	--	ND(5) UJ	--	4.3 J-
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	--	ND(5)	6.6 J+	5.4	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	--	ND(50)	ND(10)	ND(1)	--	ND(50)	--	ND(50)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	--	ND(23)	ND(1)	ND(0.1)	--	ND(23)	--	ND(23)
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	--	ND(5)	1.4 J+	0.16 J	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	--	ND(5)	1.4	0.86	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	--	ND(5)	3.9	17	--	ND(5)	--	3.9 J
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	--	ND(5)	4	28	--	ND(5) UJ	--	ND(5) UJ
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	--	ND(5)	5.5	110	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	--	ND(5)	9.6	110	--	ND(5)	--	2.7 J
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	--	ND(5)	13 J+	84	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	--	ND(5)	16	85	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	--	ND(5)	10	89	--	ND(10)	--	10 J
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	--	ND(5)	14	4.9	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	--	ND(5)	18	4.7	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	--	ND(5)	52	0.26	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	--	ND(5)	28	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	--	ND(5)	4.6	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	--	ND(5)	3.3	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	--	ND(5)	8.4 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	--	ND(5)	5	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	--	ND(5)	8.2	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	--	ND(5)	0.46 J	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	--	ND(5)	0.78 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	--	ND(5)	0.36 J	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	--	ND(5)	0.66 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	--	ND(5)	2.6	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	--	ND(5)	3.6	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	--	ND(5) UJ	4.5	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	--	ND(5)	4.6	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	--	ND(5)	5	ND(0.3) UJ	--	ND(10) R	--	ND(10) R
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	--	ND(5)	15	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	--	ND(5)	17	ND(0.1)	--	ND(5)	--	ND(5)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Land Treatment Unit Wells	OW-68	09/20/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.23) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	--	--	--	14 J	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(5)	--	--	--	--	9.6	3.7 J	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(5) R	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	--	--	--	6 J	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(5)	--	--	--	--	2.4	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	--	--	--	71	2.3 J	--	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(5) R	--	--	--	--	73	6.1 J-	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	--	--	--	5	1.9 J	--	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	ND(5) UJ	--	--	--	--	4.7	6.4 J-	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(20)	--	--	--	--	5.1	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	--	--	--	ND(1)	ND(50)	--	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(23)	--	--	--	--	ND(0.1)	ND(23)	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(20)	--	--	--	--	0.16 J	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	--	--	--	18	22	--	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	ND(5) UJ	--	--	--	--	38	20 J-	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	--	--	--	150 J	8.4	--	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(5)	--	--	--	--	140	4.4 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(20)	--	--	--	--	93	7.3 J	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	ND(20)	--	--	--	--	90	19	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(20)	--	--	--	--	87	25	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(5) R	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(5) R	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(20) R	--	--	--	--	ND(0.3) UJ	ND(10) R	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
	Cleanup Levels		370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Land Treatment Unit Wells	OW-68	09/20/22	ND(10) R	--	--	--	--	--	--	--	--	0.6
Land Treatment Unit Wells	OW-68	12/28/22	ND(10) R	--	--	--	--	--	--	--	--	0.46
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-01R	12/22/21	ND(5)	--	--	--	--	--	--	--	--	0.54 J
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(5)	--	--	--	--	--	--	--	--	0.4
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	ND(5)	--	--	--	--	--	--	--	--	1.1 J
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(5)	--	--	--	--	--	--	--	--	0.86
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(5)	--	--	--	--	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(5) R	--	--	--	--	--	--	--	--	0.88
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	ND(7.1)	--	--	--	--	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-11	03/15/22	3.8 J-	--	--	--	--	--	--	--	--	0.3
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(10)	--	--	--	--	--	--	--	--	0.44 J+
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	ND(50)	--	--	--	--	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(23)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	10	--	--	--	--	--	--	--	--	1
Marketing Tank Farm Wells	MKTF-17R	03/15/22	11 J-	--	--	--	--	--	--	--	--	1.4
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	2.2 J	--	--	--	--	--	--	--	--	6.7
Marketing Tank Farm Wells	MKTF-18R	03/15/22	3.5 J	--	--	--	--	--	--	--	--	7.1
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(10)	--	--	--	--	--	--	--	--	6.3 J+
Marketing Tank Farm Wells	MKTF-18R	09/13/22	5.9 J	--	--	--	--	--	--	--	--	6.2
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(10)	--	--	--	--	--	--	--	--	5.5
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	ND(5)	--	--	--	--	--	--	--	--	0.52
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(5)	--	--	--	--	--	--	--	--	0.46
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	ND(5)	--	--	--	--	--	--	--	--	0.18
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-28	12/14/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-29	12/14/21	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-30	12/14/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
	Cleanup Levels		NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Land Treatment Unit Wells	OW-68	09/20/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) R
Land Treatment Unit Wells	OW-68	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	--	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	6.4
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	--	ND(0.11) UJ	ND(0.11) UJ	ND(0.11) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	ND(5)	ND(0.1) UJ	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	ND(5)	0.44 J	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	0.26	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	ND(5)	4	--	ND(1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	ND(7.1)	ND(1)	--	ND(1)	--	--	--	--	ND(29)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	ND(50)	ND(1)	--	ND(1)	--	--	--	--	ND(200)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	ND(0.1)	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(91)
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	ND(5)	0.42	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	0.52	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	ND(5)	0.76	--	0.4	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	0.4	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	0.42	--	0.16 J	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	0.58	--	0.18 J	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	0.38	--	0.16 J	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Land Treatment Unit Wells	OW-68	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	OW-68	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	0.23 J	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.031)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	0.49 J	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.034) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	ND(10)	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(5)	--	--	--	ND(10)	ND(5)	1.1 J	ND(1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	ND(7.1)	--	--	--	ND(14)	ND(7.1)	ND(7.1)	ND(1)	--	ND(7.1)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	ND(50)	--	--	--	ND(100)	ND(50)	ND(50)	ND(1)	--	ND(50)
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	--	--	ND(45)	--	--	ND(0.1) UJ	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	0.2	--	ND(5)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1) UJ	--	ND(5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1) UJ	--	ND(5)
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1) UJ	--	ND(5)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1) UJ	--	ND(5)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Land Treatment Unit Wells	OW-68	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.18 J	--	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.12 J	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	ND(10)	ND(10)	--	ND(20)	--	0.82 J	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	0.56	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	ND(10)	ND(10)	--	ND(10)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	ND(10)	ND(10)	--	ND(20)	--	1.4 J	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	1.1	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(10)	ND(10)	--	ND(20)	--	ND(1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	1.8	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	ND(14)	ND(14)	--	ND(29)	--	ND(1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	0.78	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.1	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	ND(100)	ND(100)	--	ND(200)	--	ND(1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(45)	ND(45)	ND(45)	ND(91)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	ND(10)	ND(10)	--	ND(20)	--	1.9	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	0.24	3.3	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	ND(10)	ND(10)	--	ND(20)	--	9.9	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	8.5	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	8	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	ND(10)	ND(10)	27	ND(20)	0.28 J	8.2	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	0.14 J	6.7	--	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
	Cleanup Levels		0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Land Treatment Unit Wells	OW-68	09/20/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Land Treatment Unit Wells	OW-68	12/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.2)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	--	--	--	--	--	--	--	ND(5)
Land Treatment Unit Wells	SMW-2	09/30/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.23) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	--	--	--	--	--	--	--	ND(5)
Land Treatment Unit Wells	SMW-4	09/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	11 J	--	--	--	--	--	0.36 J	34
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(0.3)	--	24	--	--	--	--	--	0.18	26
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	12 J	--	--	--	--	--	1.2 J	1.5 J
Marketing Tank Farm Wells	MKTF-04R	03/15/22	ND(0.3)	--	11	--	--	--	--	--	0.54	5.5
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	110 J	--	--	--	--	--	2	33
Marketing Tank Farm Wells	MKTF-10	03/15/22	ND(0.3)	--	120	--	--	--	--	--	1.4	22 J-
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	13	--	--	--	--	--	ND(1)	44
Marketing Tank Farm Wells	MKTF-11	03/15/22	ND(0.3)	--	16	--	--	--	--	--	0.26	30 J-
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(0.3)	--	14	--	--	--	--	--	0.38 J+	28
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	ND(1)	--	--	--	--	--	ND(1)	ND(50)
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(0.3) UJ	--	0.08 J	--	--	--	--	--	ND(0.1) UJ	ND(23)
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(0.3)	--	1.3	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	45	--	--	--	--	--	1.6	8.1
Marketing Tank Farm Wells	MKTF-17R	03/15/22	ND(0.3)	--	89	--	--	--	--	--	3.3	7.5 J-
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	72 J	--	--	--	--	--	11	17
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(0.3)	--	73	--	--	--	--	--	6.7	12
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(0.3)	--	55	--	--	--	--	--	6.7 J+	ND(20)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	ND(0.3)	--	54	--	--	--	--	--	7.5	ND(20)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(0.3)	--	52	--	--	--	--	--	5.6	19 J
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	1.4	--	--	--	--	--	ND(0.1)	46
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(0.3)	--	1	--	--	--	--	--	ND(0.1)	20
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	0.3	--	--	--	--	--	ND(0.1)	16
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	4.1 J
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(0.3)	--	0.24 J	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	ND(0.1)	--	--	--	--	ND(20) R	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20) R
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	ND(0.1)	--	--	--	--	ND(20)	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
	Cleanup Levels		117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Land Treatment Unit Wells	OW-68	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	08/22/19	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/19/20	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	ND(10)	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	12/06/18	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	--	ND(10)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/20/20	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	ND(0.57) UJ	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/21	--	ND(0.2)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	0.26	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	0.22J/ND(0.4)U*	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	0.18J/ND(0.4)U*	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	ND(2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	0.2J/ND(0.4)U*	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	ND(2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	ND(0.2) UJ	ND(45)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	0.28	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	0.42 JB	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	0.34	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	ND(0.4)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	0.64 J	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	0.2	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	ND(0.2) UJ	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	ND(0.2) UJ	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	ND(0.2) UJ	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	ND(0.2) UJ	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	--	ND(5) UJ	19	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	--	ND(5)	12	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	--	ND(5)	14	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	--	ND(5)	60	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	--	ND(5)	81	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	--	ND(5)	79 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	--	ND(5)	75 J	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	--	ND(5)	110	0.16 J	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	--	ND(5)	36	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	--	ND(5) UJ	34	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	--	ND(5)	63 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	--	ND(5)	27 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	--	ND(5)	34 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	--	ND(5)	2.4	0.32	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	--	ND(5) UJ	ND(1)	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	--	ND(5)	1.4	7.1	--	ND(5)	--	3 J
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	--	ND(5)	1.7 J	9.1 J	--	ND(5)	--	5.6
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	--	ND(5)	2 J+	16	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	--	ND(5)	1.3	4.5	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	--	ND(5)	2.6	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	--	ND(5)	3.6 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	--	ND(5)	1.7	10	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	--	ND(5)	1.6	8.1	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	--	ND(5)	8	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	--	ND(5)	11	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	--	ND(5)	11 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	--	ND(5)	11	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	--	ND(5)	12	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	--	ND(5.2) R	1.5	5.1	--	ND(5.2) R	--	ND(5.2) R
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	--	ND(5) UJ	ND(20)	ND(2)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	--	ND(5) UJ	1.3	0.4 J+	--	ND(10) UJ	--	ND(10) UJ
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	--	ND(5)	1.9 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	--	ND(5)	2.3	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	--	ND(5)	ND(10)	ND(1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	--	ND(50) UJ	ND(20)	ND(2)	--	ND(50)	--	ND(50)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	--	ND(5) R	ND(1)	ND(0.1) UJ	--	ND(5) R	--	ND(5) R
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10) R	--	ND(10) R
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10) R	--	ND(10) R
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10) R	--	ND(10) R
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	--	ND(50) UJ	ND(10) UJ	ND(3) UJ	--	ND(100)	--	ND(100)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	--	ND(5)	0.8 J	ND(0.1)	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	--	ND(5)	1.7 J	ND(0.1) UJ	--	ND(5)	--	ND(5)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	--	ND(5)	1.5 J+	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	--	ND(5)	0.98J/ND(1)U*	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	--	ND(5)	0.84 J	ND(0.3)	--	ND(10)	--	ND(10)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	ND(0.1)	--	--	--	ND(5)
Production Wells	PW-3	03/09/22	--	--	--	ND(5) UJ	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Production Wells	PW-3	06/14/22	--	--	--	ND(5) UJ	ND(1)	ND(0.3)	--	ND(10)	--	ND(10) UJ
Production Wells	PW-3	09/08/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3)	--	ND(10)	--	ND(10)
Production Wells	PW-3	12/06/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Production Wells	PW-4	12/28/21	--	--	--	--	--	ND(0.1) UJ	--	--	--	ND(5)
Production Wells	PW-4	03/09/22	--	--	--	ND(5) UJ	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Production Wells	PW-4	06/14/22	--	--	--	ND(5) UJ	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Production Wells	PW-4	09/08/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	ND(10)	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	--	ND(5)	ND(1)	ND(0.1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	--	ND(5) UJ	0.58 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	--	ND(5)	0.48 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	--	ND(5)	0.42 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	--	ND(5)	ND(10)	5.8	--	ND(5) UJ	--	5.7 J-

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(20)	--	--	--	--	0.22 J	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(5) R	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	--	--	--	7.7	6.6	--	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	ND(5)	--	--	--	--	13 J	5.5	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(20)	--	--	--	--	21	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	--	--	--	0.88	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(20)	--	--	--	--	9.2	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(20)	--	--	--	--	7.3	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	--	--	--	7.2	ND(5.2) R	--	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(5)	--	--	--	--	ND(2)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(20) UJ	--	--	--	--	0.28 J+	ND(10) UJ	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	--	--	--	ND(1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(50)	--	--	--	--	ND(2)	ND(50)	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	--	--	--	ND(0.1)	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(5) R	--	--	--	--	ND(0.1) UJ	ND(5) R	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(20) R	--	--	--	--	ND(0.3) UJ	ND(10) R	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(200)	--	--	--	--	ND(3) UJ	ND(100)	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(5)	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Production Wells	PW-3	03/09/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Production Wells	PW-3	06/14/22	ND(20) UJ	--	--	--	--	ND(0.3)	ND(10) UJ	--	--	--
Production Wells	PW-3	09/08/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Production Wells	PW-3	12/06/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Production Wells	PW-4	12/28/21	--	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Production Wells	PW-4	03/09/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Production Wells	PW-4	06/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Production Wells	PW-4	09/08/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	ND(1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(5) UJ	--	--	--	--	5.2	7.7 J-	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
Cleanup Levels			370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-31	12/16/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-32	12/09/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	6.3	--	--	--	--	--	--	--	--	2.3
Marketing Tank Farm Wells	MKTF-35	03/10/22	6.6	--	--	--	--	--	--	--	--	1.6 J
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(10)	--	--	--	--	--	--	--	--	1.6 J+
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	ND(5)	--	--	--	--	--	--	--	--	0.28
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(10)	--	--	--	--	--	--	--	--	0.4
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(10)	--	--	--	--	--	--	--	--	0.24 J
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-41	12/09/21	ND(5.2) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(5)	--	--	--	--	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(10) UJ	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-42	12/09/21	ND(5)	--	--	--	--	--	--	--	--	ND(1)
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(50)	--	--	--	--	--	--	--	--	ND(2)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(5) R	--	--	--	--	--	--	--	--	ND(0.1) UJ
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-44	12/23/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(100)	--	--	--	--	--	--	--	--	ND(3) UJ
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1) UJ
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	ND(5)	--	--	--	--	--	--	--	--	--
Production Wells	PW-3	03/09/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Production Wells	PW-3	06/14/22	ND(10) UJ	--	--	--	--	--	--	--	--	ND(0.3)
Production Wells	PW-3	09/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Production Wells	PW-3	12/06/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Production Wells	PW-4	12/28/21	ND(5)	--	--	--	--	--	--	--	--	--
Production Wells	PW-4	03/09/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Production Wells	PW-4	06/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Production Wells	PW-4	09/08/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	7.1 J-	--	--	--	--	--	--	--	--	16

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
	Cleanup Levels		NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	ND(5)	0.46	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	0.3 J	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	0.3	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	0.32	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	ND(5.2) R	0.36	--	ND(0.1)	--	--	--	--	ND(21) R
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	ND(2)	--	ND(2)	--	ND(2)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20) UJ
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	ND(5)	ND(1)	--	ND(1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	ND(2)	--	ND(2)	--	ND(2)	--	--	ND(200)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20) R
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20) R
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	ND(0.1)	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	ND(5)	ND(0.1)	--	ND(0.1)	--	--	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	ND(0.1) UJ	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	--	--	--	--	ND(20)
Production Wells	PW-3	03/09/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Production Wells	PW-3	06/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) UJ
Production Wells	PW-3	09/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Production Wells	PW-3	12/06/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Production Wells	PW-4	12/28/21	--	--	--	--	--	--	--	--	--	ND(20)
Production Wells	PW-4	03/09/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Production Wells	PW-4	06/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Production Wells	PW-4	09/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	ND(5)	ND(1)	--	ND(1)	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	ND(1)	--	ND(1)	--	ND(1)	--	--	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	--	--	6.2 J	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	ND(5.2) R	--	--	--	ND(10) R	ND(5.2) R	ND(5.2) R	ND(0.1)	--	ND(5.2) R
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	--	--	ND(10)	--	--	ND(2)	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	--	--	ND(10) UJ	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	--	--	ND(100)	--	--	ND(2)	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	--	--	ND(10) R	--	--	ND(0.1)	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	--	--	ND(100)	--	--	ND(3) UJ	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	ND(5)	--	--	--	ND(10)	ND(5)	ND(5)	ND(0.1)	--	ND(5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	ND(10)	--	--	--	--	--
Production Wells	PW-3	03/09/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Production Wells	PW-3	06/14/22	--	--	--	--	ND(10) UJ	--	--	ND(0.3)	--	--
Production Wells	PW-3	09/08/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Production Wells	PW-3	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Production Wells	PW-4	12/28/21	--	--	--	--	ND(10)	--	--	--	--	--
Production Wells	PW-4	03/09/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Production Wells	PW-4	06/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Production Wells	PW-4	09/08/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	--	--	ND(10)	--	--	ND(1)	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	ND(10)	ND(10)	--	3.4 J	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	ND(10)	ND(10)	--	ND(20)	--	0.58	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2) UJ	0.54 J	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.88	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	ND(10)	ND(10)	--	ND(20)	--	0.42	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.76	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.5	--	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	ND(10) R	ND(10) R	--	ND(21) R	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(10)	ND(10)	ND(10)	ND(10)	ND(4)	ND(2)	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(20) UJ	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	ND(10)	ND(10)	--	3.8 J	--	ND(1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(4)	ND(2)	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(10) R	ND(10) R	ND(10) R	ND(20) R	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	ND(10)	ND(10)	--	ND(20)	--	ND(0.1)	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2) UJ	ND(0.1) UJ	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(10)	ND(10)	15	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Production Wells	PW-3	03/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Production Wells	PW-3	06/14/22	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(20) UJ	ND(0.3)	ND(0.3)	--	--	--	--
Production Wells	PW-3	09/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Production Wells	PW-3	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Production Wells	PW-4	12/28/21	ND(10)	ND(10)	--	ND(20)	--	--	--	--	--	--
Production Wells	PW-4	03/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Production Wells	PW-4	06/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Production Wells	PW-4	09/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(2)	ND(1)	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
	Cleanup Levels		0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(0.3)	--	0.52 J	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	ND(0.1)	--	--	--	--	ND(20)	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) UJ
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	0.2	--	--	--	--	ND(20)	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	59	--	--	--	--	--	0.28	52
Marketing Tank Farm Wells	MKTF-35	03/10/22	ND(0.3) UJ	--	96 J	--	--	--	--	--	0.16 J	29
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(0.3)	--	110	--	--	--	--	--	0.38 J+	38
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	3	--	--	--	--	--	0.22	ND(5)
Marketing Tank Farm Wells	MKTF-38	03/15/22	ND(0.3)	--	0.1	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(0.3)	--	13	--	--	--	--	--	0.16 J	ND(20)
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(0.3)	--	7.6	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	0.14	--	--	--	--	ND(20)	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	5.2	--	--	--	--	ND(21) R	0.14	ND(5.2) R
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(6)	--	ND(2)	--	--	--	--	--	ND(2)	ND(5) UJ
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(0.3) UJ	--	0.28 J	--	--	--	--	--	ND(0.3)	ND(20) UJ
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	0.42 J	ND(20)
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	2.6	--	--	--	--	ND(20)	ND(1)	ND(5)
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(6)	--	ND(2)	--	--	--	--	--	ND(2)	ND(50) UJ
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5) R
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20) R
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(0.3) UJ	--	ND(0.1)	--	--	--	--	--	ND(0.1) UJ	ND(5)
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	ND(3) UJ	--	--	--	--	--	ND(3) UJ	ND(200) UJ
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	ND(0.1)	--	--	--	--	ND(20)	ND(0.1)	ND(5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(0.3) UJ	--	0.18 J	--	--	--	--	--	ND(0.1) UJ	ND(5)
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	0.22 J+	ND(20)
Marketing Tank Farm Wells	MKTF-46	09/13/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Production Wells	PW-3	03/09/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) UJ
Production Wells	PW-3	06/14/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Production Wells	PW-3	09/08/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Production Wells	PW-3	12/06/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Production Wells	PW-4	12/28/21	--	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Production Wells	PW-4	03/09/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) UJ
Production Wells	PW-4	06/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Production Wells	PW-4	09/08/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	ND(1)	--	--	--	--	--	ND(1)	ND(5)
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(3)	--	7.2	--	--	--	--	--	2.2	5.9 J-

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
	Cleanup Levels		117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Marketing Tank Farm Wells	MKTF-30	06/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	ND(0.2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	ND(0.2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	0.24	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	0.16JE/ND(0.2)U*	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	0.16J/ND(0.4)U*	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	ND(0.2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	ND(0.2)	ND(5.2) R	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	ND(4)	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	ND(1)	ND(40) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	ND(2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	ND(4)	ND(100)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	ND(0.2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	ND(0.2)	ND(10) R	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	ND(0.2)	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	ND(0.2) UJ	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	ND(10) UJ	ND(400)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	ND(0.2)	ND(5) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	ND(0.2) UJ	ND(10)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	0.4 J	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	--	--	--	--	--
Production Wells	PW-3	03/09/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Production Wells	PW-3	06/14/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Production Wells	PW-3	09/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Production Wells	PW-3	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Production Wells	PW-4	12/28/21	--	--	--	--	--	--	--	--	--	--
Production Wells	PW-4	03/09/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Production Wells	PW-4	06/14/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Production Wells	PW-4	09/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	0.2	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	ND(2)	ND(10)	--	--	--	--	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	--	ND(5) UJ	0.4 J	0.48	--	ND(10) UJ	--	ND(10) UJ
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	--	ND(5)	0.34 J-	1.6	--	ND(10) R	--	ND(10) R
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	--	ND(5)	0.26 J	4	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	ND(5)	ND(10) UJ	ND(1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	ND(5)	8 J	ND(0.1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	--	ND(5) UJ	9.8	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	--	ND(5)	7.1 J-	0.34	--	ND(10) R	--	ND(10) R
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	--	ND(5)	4.7	1.2	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	ND(10)	41	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	--	ND(5)	2.5	45	--	ND(5)	--	4.1 J
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	--	ND(5) UJ	3.5	31	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	--	ND(5)	1.6	44	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	--	ND(5)	2.2	35	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	ND(10)	3.4	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	--	ND(5)	ND(1)	2.3	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	--	ND(5) UJ	0.68 J	5.7	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	--	ND(5)	0.74 J	1.9	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	--	ND(5)	0.42 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	2.2 J	ND(1)	--	--	--	ND(50)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	--	ND(5)	1.9	ND(0.1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	--	ND(50) UJ	ND(10)	ND(3)	--	ND(100)	--	ND(100)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	--	ND(50)	ND(10)	ND(3)	--	ND(100)	--	ND(100)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	--	ND(50)	ND(10)	3	--	ND(100)	--	ND(100)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	--	ND(5)	4.8	ND(0.1)	--	ND(5) UJ	--	ND(5) UJ
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	--	ND(5)	5.9	ND(0.3)	--	ND(10) UJ	--	ND(10) UJ
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	--	ND(5)	6.4	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	--	ND(5)	5.4	ND(0.3)	--	ND(10) R	--	ND(10) R
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	ND(5)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	--	ND(5)	0.24 J	ND(0.1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	--	ND(5)	0.24 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	--	ND(5)	0.26 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10) UJ	--	ND(10) UJ
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	ND(5)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	--	ND(5)	0.14 J	ND(0.1)	--	ND(5)	--	ND(5)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	--	ND(5) UJ	0.22 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	--	ND(5)	0.12 J	ND(0.3)	--	ND(10)	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	--	71	--	--	--	ND(5)
Tank Farm Wells	OW-57	03/10/22	--	--	--	ND(5)	ND(1) UJ	82 J	--	ND(5)	--	ND(5)
Tank Farm Wells	OW-57	06/29/22	--	--	--	ND(5) UJ	ND(1) UJ	96 J	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-57	09/15/22	--	--	--	ND(5)	0.8 J	77	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-57	12/07/22	--	--	--	ND(5)	3.1	58 J	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	--	63	--	--	--	ND(5)
Tank Farm Wells	OW-58	03/10/22	--	--	--	ND(5)	1.3 J	74 J	--	ND(5)	--	ND(5)
Tank Farm Wells	OW-58	06/29/22	--	--	--	ND(5) UJ	ND(1) UJ	68 J	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-58	09/20/22	--	--	--	ND(5)	1.5	69	--	ND(10)	--	ND(10) R
Tank Farm Wells	OW-58	12/14/22	--	--	--	ND(5)	0.84 J	38	--	ND(10) R	--	ND(10) R
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	--	90	--	--	--	8
Tank Farm Wells	OW-58A	03/10/22	--	--	--	ND(5)	1.9 J	91 J	--	ND(5)	--	8.9
Tank Farm Wells	OW-58A	06/29/22	--	--	--	ND(5) UJ	ND(1) UJ	100 J	--	ND(10)	--	11
Tank Farm Wells	OW-58A	09/20/22	--	--	--	ND(5)	ND(1)	76	--	ND(10)	--	6.5 J
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	--	65	--	--	--	3.1 J
Tank Farm Wells	OW-63	03/10/22	--	--	--	ND(5)	ND(1) UJ	65 J	--	ND(5)	--	5.4
Tank Farm Wells	OW-63	06/08/22	--	--	--	ND(5)	ND(1)	56	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-63	09/20/22	--	--	--	ND(5)	1.2	52	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-63	12/07/22	--	--	--	ND(5)	1.1	41 J	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	--	1.8 J	--	--	--	ND(5)
Tank Farm Wells	OW-64	03/24/22	--	--	--	ND(5)	ND(1)	1.2	--	ND(5)	--	ND(5)
Tank Farm Wells	OW-64	06/08/22	--	--	--	ND(5)	ND(1)	1.4	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-64	09/20/22	--	--	--	ND(5)	ND(1)	1.1	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-64	12/07/22	--	--	--	ND(5)	ND(1)	0.76	--	ND(10)	--	ND(10)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(20) UJ	--	--	--	--	ND(0.3)	ND(10) UJ	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(20) R	--	--	--	--	0.34	ND(10) R	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(20)	--	--	--	--	3	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(5)	--	--	--	--	ND(1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	--	16	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(5)	--	--	--	--	10	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(20)	--	--	--	--	6.3	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(20)	--	--	--	--	16	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(20)	--	--	--	--	4.3	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	--	2.4	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(5)	--	--	--	--	1.1	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(20)	--	--	--	--	2.8	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(20)	--	--	--	--	0.7	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(200) UJ	--	--	--	--	ND(3)	ND(100)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(200)	--	--	--	--	ND(3)	ND(100)	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(200)	--	--	--	--	ND(3)	ND(100)	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(5) UJ	--	--	--	--	ND(0.1)	ND(5) UJ	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(20) UJ	--	--	--	--	ND(0.3)	ND(10) UJ	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(20) R	--	--	--	--	ND(0.3)	ND(10) R	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	ND(5)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(20) UJ	--	--	--	--	ND(0.3)	ND(10) UJ	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	ND(5)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(5)	--	--	--	--	ND(0.1)	ND(5)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	--	51	ND(5)	--	--	--
Tank Farm Wells	OW-57	03/10/22	ND(5)	--	--	--	--	59 J	ND(5)	--	--	--
Tank Farm Wells	OW-57	06/29/22	ND(20)	--	--	--	--	71 J	ND(10)	--	--	--
Tank Farm Wells	OW-57	09/15/22	ND(20)	--	--	--	--	55	ND(10)	--	--	--
Tank Farm Wells	OW-57	12/07/22	ND(20)	--	--	--	--	37 J	ND(10)	--	--	--
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	--	73	ND(5)	--	--	--
Tank Farm Wells	OW-58	03/10/22	ND(5)	--	--	--	--	83 J	ND(5)	--	--	--
Tank Farm Wells	OW-58	06/29/22	ND(20)	--	--	--	--	77 J	ND(10)	--	--	--
Tank Farm Wells	OW-58	09/20/22	ND(20)	--	--	--	--	79	ND(10)	--	--	--
Tank Farm Wells	OW-58	12/14/22	ND(20) R	--	--	--	--	42	ND(10) R	--	--	--
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	--	79	5.2	--	--	--
Tank Farm Wells	OW-58A	03/10/22	ND(5)	--	--	--	--	89 J	8.9	--	--	--
Tank Farm Wells	OW-58A	06/29/22	ND(20)	--	--	--	--	97 J	9.5 J	--	--	--
Tank Farm Wells	OW-58A	09/20/22	ND(20)	--	--	--	--	87	11	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	--	96	ND(5)	--	--	--
Tank Farm Wells	OW-63	03/10/22	ND(5)	--	--	--	--	94 J	ND(5)	--	--	--
Tank Farm Wells	OW-63	06/08/22	ND(20)	--	--	--	--	78	ND(10)	--	--	--
Tank Farm Wells	OW-63	09/20/22	ND(20)	--	--	--	--	74	ND(10)	--	--	--
Tank Farm Wells	OW-63	12/07/22	ND(20)	--	--	--	--	58 J	ND(10)	--	--	--
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	--	0.58 J	ND(5)	--	--	--
Tank Farm Wells	OW-64	03/24/22	ND(5)	--	--	--	--	0.26	ND(5)	--	--	--
Tank Farm Wells	OW-64	06/08/22	ND(20)	--	--	--	--	0.36	ND(10)	--	--	--
Tank Farm Wells	OW-64	09/20/22	ND(20)	--	--	--	--	0.38	ND(10)	--	--	--
Tank Farm Wells	OW-64	12/07/22	ND(20)	--	--	--	--	0.16 J	ND(10)	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
	Cleanup Levels		370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(10) UJ	--	--	--	--	--	--	--	--	0.64
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(10) R	--	--	--	--	--	--	--	--	1.2
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(10)	--	--	--	--	--	--	--	--	1.1
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(5)	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(10)	--	--	--	--	--	--	--	--	0.4
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	--	--	--	--	--	3.4
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(5)	--	--	--	--	--	--	--	--	2.8
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(10)	--	--	--	--	--	--	--	--	3
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(10)	--	--	--	--	--	--	--	--	2.7
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(10)	--	--	--	--	--	--	--	--	1.9
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(5)	--	--	--	--	--	--	--	--	0.48
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(10)	--	--	--	--	--	--	--	--	0.72
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(10)	--	--	--	--	--	--	--	--	0.62
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(10)	--	--	--	--	--	--	--	--	0.36
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	--	--	--	--	--	ND(1)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(100)	--	--	--	--	--	--	--	--	ND(3)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(5) UJ	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(10) UJ	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(10) R	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(10) UJ	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	ND(5)	--	--	--	--	--	--	--	--	3
Tank Farm Wells	OW-57	03/10/22	ND(5)	--	--	--	--	--	--	--	--	2.4 J
Tank Farm Wells	OW-57	06/29/22	ND(10)	--	--	--	--	--	--	--	--	3 J
Tank Farm Wells	OW-57	09/15/22	ND(10)	--	--	--	--	--	--	--	--	2.4
Tank Farm Wells	OW-57	12/07/22	ND(10)	--	--	--	--	--	--	--	--	2.5
Tank Farm Wells	OW-58	12/14/21	ND(5)	--	--	--	--	--	--	--	--	3
Tank Farm Wells	OW-58	03/10/22	ND(5)	--	--	--	--	--	--	--	--	2.2 J
Tank Farm Wells	OW-58	06/29/22	ND(10)	--	--	--	--	--	--	--	--	2.7 J
Tank Farm Wells	OW-58	09/20/22	ND(10)	--	--	--	--	--	--	--	--	2.5
Tank Farm Wells	OW-58	12/14/22	ND(10) R	--	--	--	--	--	--	--	--	1.8
Tank Farm Wells	OW-58A	12/14/21	1.4 J	--	--	--	--	--	--	--	--	4.2
Tank Farm Wells	OW-58A	03/10/22	4.6 J	--	--	--	--	--	--	--	--	ND(0.1) UJ
Tank Farm Wells	OW-58A	06/29/22	ND(10)	--	--	--	--	--	--	--	--	4.2 J
Tank Farm Wells	OW-58A	09/20/22	5.4 J	--	--	--	--	--	--	--	--	2.6
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	ND(5)	--	--	--	--	--	--	--	--	0.94
Tank Farm Wells	OW-63	03/10/22	ND(5)	--	--	--	--	--	--	--	--	0.76 J
Tank Farm Wells	OW-63	06/08/22	ND(10)	--	--	--	--	--	--	--	--	0.7
Tank Farm Wells	OW-63	09/20/22	ND(10)	--	--	--	--	--	--	--	--	0.68
Tank Farm Wells	OW-63	12/07/22	ND(10)	--	--	--	--	--	--	--	--	0.74 J
Tank Farm Wells	OW-64	12/29/21	ND(5)	--	--	--	--	--	--	--	--	0.26
Tank Farm Wells	OW-64	03/24/22	ND(5)	--	--	--	--	--	--	--	--	0.12
Tank Farm Wells	OW-64	06/08/22	ND(10)	--	--	--	--	--	--	--	--	0.16 J
Tank Farm Wells	OW-64	09/20/22	ND(10)	--	--	--	--	--	--	--	--	0.16 J
Tank Farm Wells	OW-64	12/07/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
Cleanup Levels			NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	0.46	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	0.46	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) R
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	0.44	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(1)	--	ND(1)	--	ND(1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20) R
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	ND(5)	ND(1)	--	ND(1)	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	0.26	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	0.22 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	0.3	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	ND(5)	ND(1)	--	ND(1)	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	0.18 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	ND(1)	--	--	--	--	--	--	ND(200)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	ND(3)	--	ND(3)	--	ND(3)	--	--	ND(200)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	ND(3)	--	ND(3)	--	ND(4)	--	--	ND(200)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20) UJ
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	ND(0.3)	--	ND(0.3) UJ	--	ND(0.3) UJ	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) UJ
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	ND(20)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	ND(0.1)	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	--	--	--	--	--	ND(20)
Tank Farm Wells	OW-57	03/10/22	--	--	0.2 J	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Tank Farm Wells	OW-57	06/29/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-57	09/15/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-57	12/07/22	--	--	0.22 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	--	--	--	--	--	15 J
Tank Farm Wells	OW-58	03/10/22	--	--	0.3 J	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Tank Farm Wells	OW-58	06/29/22	--	--	0.4	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-58	09/20/22	--	--	0.36	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-58	12/14/22	--	--	0.36	--	ND(0.3)	--	ND(0.4)	--	--	ND(20) R
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	--	--	--	--	--	12 J
Tank Farm Wells	OW-58A	03/10/22	--	--	0.42 J	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Tank Farm Wells	OW-58A	06/29/22	--	--	0.48	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-58A	09/20/22	--	--	0.66 J	--	0.2 J	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	--	--	--	--	--	ND(20)
Tank Farm Wells	OW-63	03/10/22	--	--	0.2 J	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Tank Farm Wells	OW-63	06/08/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-63	09/20/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-63	12/07/22	--	--	0.18 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Tank Farm Wells	OW-64	03/24/22	--	--	0.3	--	ND(0.1) UJ	--	ND(0.1) UJ	--	--	ND(20)
Tank Farm Wells	OW-64	06/08/22	--	--	0.22 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-64	09/20/22	--	--	0.24 J	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Tank Farm Wells	OW-64	12/07/22	--	--	0.2 J	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	ND(10)	--	--	ND(1)	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	ND(100)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	--	--	ND(100)	--	--	ND(3)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	--	--	ND(100)	--	--	ND(3)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	--	--	ND(100)	--	--	ND(3)	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	ND(10)	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	--	ND(10)	--	4.3 J	--	--	ND(5)
Tank Farm Wells	OW-57	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Tank Farm Wells	OW-57	06/29/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Tank Farm Wells	OW-57	09/15/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-57	12/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-58	12/14/21	--	--	--	--	ND(10)	--	0.97 J	--	--	ND(5)
Tank Farm Wells	OW-58	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Tank Farm Wells	OW-58	06/29/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Tank Farm Wells	OW-58	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-58	12/14/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-58A	12/14/21	--	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Tank Farm Wells	OW-58A	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Tank Farm Wells	OW-58A	06/29/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Tank Farm Wells	OW-58A	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	ND(10)	--	4.7 J	--	--	ND(5)
Tank Farm Wells	OW-63	03/10/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Tank Farm Wells	OW-63	06/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-63	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-63	12/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-64	12/29/21	--	--	--	--	ND(10)	--	ND(5)	--	--	ND(5)
Tank Farm Wells	OW-64	03/24/22	--	--	--	--	ND(10)	--	--	ND(0.1) UJ	--	--
Tank Farm Wells	OW-64	06/08/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-64	09/20/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-64	12/07/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(10)	ND(10)	ND(10)	ND(20)	0.68	1.2	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(10)	ND(10)	ND(10)	ND(20)	0.7	1.5	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	0.48	1.2	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(2)	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.2 J	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(10)	ND(10)	ND(10)	ND(20)	0.14 J	0.54	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	--	4	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	2.8	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	2.6	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	3.2	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	2.3	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	--	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	0.32	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.52	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	0.24 J	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	ND(100)	--	ND(200)	--	ND(1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(100)	ND(100)	ND(100)	ND(200)	ND(3)	ND(3)	--	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	0.14 J	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	ND(20)	ND(2)	5.6	--	--	--	--
Tank Farm Wells	OW-57	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2) UJ	4.1 J	--	--	--	--
Tank Farm Wells	OW-57	06/29/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	5.3 J	--	--	--	--
Tank Farm Wells	OW-57	09/15/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	3.9	--	--	--	--
Tank Farm Wells	OW-57	12/07/22	ND(10)	ND(10)	ND(10)	ND(20)	0.14 J	4.8	--	--	--	--
Tank Farm Wells	OW-58	12/14/21	--	ND(10)	--	4.3 J	ND(2)	4.6	--	--	--	--
Tank Farm Wells	OW-58	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	0.18 J	3 J	--	--	--	--
Tank Farm Wells	OW-58	06/29/22	ND(10)	ND(10)	ND(10)	ND(20)	0.24 J	3.7 J	--	--	--	--
Tank Farm Wells	OW-58	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	0.2 J	3.3	--	--	--	--
Tank Farm Wells	OW-58	12/14/22	ND(10)	ND(10)	ND(10)	ND(20)	0.22 J	3	--	--	--	--
Tank Farm Wells	OW-58A	12/14/21	--	ND(10)	--	3.5 J	ND(2)	6.2	--	--	--	--
Tank Farm Wells	OW-58A	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	0.26 J	4.7 J	--	--	--	--
Tank Farm Wells	OW-58A	06/29/22	ND(10)	ND(10)	ND(10)	ND(20)	0.26 J	5.9 J	--	--	--	--
Tank Farm Wells	OW-58A	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	0.5	4.7	--	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	ND(10)	--	ND(20)	ND(0.2)	1.4	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2) UJ	1.4 J	--	--	--	--
Tank Farm Wells	OW-63	06/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.3	--	--	--	--
Tank Farm Wells	OW-63	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.2	--	--	--	--
Tank Farm Wells	OW-63	12/07/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	1.3 J	--	--	--	--
Tank Farm Wells	OW-64	12/29/21	--	ND(10)	--	ND(20)	0.76	0.42	--	--	--	--
Tank Farm Wells	OW-64	03/24/22	ND(10)	ND(10)	ND(10)	ND(20)	0.8	0.32	--	--	--	--
Tank Farm Wells	OW-64	06/08/22	ND(10)	ND(10)	ND(10)	ND(20)	0.5	0.38	--	--	--	--
Tank Farm Wells	OW-64	09/20/22	ND(10)	ND(10)	ND(10)	ND(20)	0.48	0.32	--	--	--	--
Tank Farm Wells	OW-64	12/07/22	ND(10)	ND(10)	ND(10)	ND(20)	0.48	0.22 J	--	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
Cleanup Levels			0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	2.2	ND(20) UJ
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	ND(0.3)	--	0.24 J	--	--	--	--	--	2.6	ND(20) R
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(0.3)	--	1.3	--	--	--	--	--	1.7	ND(20)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(3)	--	ND(1)	--	--	--	--	--	ND(1)	ND(5)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(0.3)	--	0.16	--	--	--	--	--	ND(0.1)	ND(5)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(0.3)	--	0.84	--	--	--	--	--	0.4	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	26	--	--	--	--	--	ND(1)	30
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(0.3)	--	18	--	--	--	--	--	0.64	48
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	16	--	--	--	--	--	0.18 J	52 J
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(0.3)	--	25	--	--	--	--	--	0.92	27
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(0.3)	--	11	--	--	--	--	--	0.62	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	2.2	--	--	--	--	--	ND(1)	1.3 J
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	ND(0.3)	--	1.5	--	--	--	--	--	0.1	4.2 J
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	2.9	--	--	--	--	--	0.16 J	ND(20) UJ
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(0.3)	--	1.3	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	ND(1)	--	--	--	--	--	ND(1)	ND(50)
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	ND(3)	--	--	--	--	--	ND(3)	ND(200) UJ
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(3)	--	ND(3)	--	--	--	--	--	ND(3)	ND(200)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(3)	--	ND(3)	--	--	--	--	--	ND(3)	ND(200)
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5) UJ
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20) UJ
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) R
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	ND(5)	--	--	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(0.3)	--	ND(0.1)	--	--	--	--	--	ND(0.1)	ND(5)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(0.3) UJ	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	ND(5)	--	--	--	--	--	--	ND(5)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	ND(0.3) UJ	--	ND(0.1)	--	--	--	--	--	ND(0.1) UJ	ND(5)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20) UJ
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	91	--	--	--	--	--	5.6	64
Tank Farm Wells	OW-57	03/10/22	ND(0.3) UJ	--	170 J	--	--	--	--	--	5.5 J	71
Tank Farm Wells	OW-57	06/29/22	ND(0.3)	--	130 J	--	--	--	--	--	7.3 J	110 J
Tank Farm Wells	OW-57	09/15/22	ND(0.3)	--	100	--	--	--	--	--	5.1	70
Tank Farm Wells	OW-57	12/07/22	ND(0.3)	--	81 J	--	--	--	--	--	7.6	89
Tank Farm Wells	OW-58	12/14/21	--	--	130	--	--	--	--	--	3	72
Tank Farm Wells	OW-58	03/10/22	ND(0.3) UJ	--	ND(0.1) UJ	--	--	--	--	--	2.6 J	61
Tank Farm Wells	OW-58	06/29/22	ND(0.3)	--	140 J	--	--	--	--	--	3.3 J	70 J
Tank Farm Wells	OW-58	09/20/22	ND(0.3)	--	140	--	--	--	--	--	2.9	74
Tank Farm Wells	OW-58	12/14/22	ND(0.3)	--	71 J	--	--	--	--	--	3.5	ND(20) R
Tank Farm Wells	OW-58A	12/14/21	--	--	160	--	--	--	--	--	5	21
Tank Farm Wells	OW-58A	03/10/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	4.6 J	17
Tank Farm Wells	OW-58A	06/29/22	ND(0.3)	--	190 J	--	--	--	--	--	5 J	21 J
Tank Farm Wells	OW-58A	09/20/22	ND(0.3)	--	160	--	--	--	--	--	5.8	22
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	240	--	--	--	--	--	1	30
Tank Farm Wells	OW-63	03/10/22	ND(0.3) UJ	--	ND(0.1) UJ	--	--	--	--	--	1 J	24
Tank Farm Wells	OW-63	06/08/22	ND(0.3)	--	190	--	--	--	--	--	0.84	27
Tank Farm Wells	OW-63	09/20/22	ND(0.3)	--	180	--	--	--	--	--	0.92	25
Tank Farm Wells	OW-63	12/07/22	ND(0.3)	--	140 J	--	--	--	--	--	1.1	21
Tank Farm Wells	OW-64	12/29/21	--	--	2.7	--	--	--	--	--	1.2	ND(5)
Tank Farm Wells	OW-64	03/24/22	ND(0.3) UJ	--	1.4	--	--	--	--	--	0.94 J	ND(5)
Tank Farm Wells	OW-64	06/08/22	ND(0.3)	--	2.3	--	--	--	--	--	0.76	ND(20)
Tank Farm Wells	OW-64	09/20/22	ND(0.3)	--	2.7	--	--	--	--	--	0.64	ND(20)
Tank Farm Wells	OW-64	12/07/22	ND(0.3)	--	0.94	--	--	--	--	--	0.44	ND(20)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
Cleanup Levels			117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	0.36 J	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	ND(2)	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	0.16 J	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	0.18 J	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	0.22	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	ND(10)	ND(400)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	ND(10)	ND(400)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	ND(10)	ND(400)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	0.16J/ND(0.2)U*	ND(10)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	ND(2)	--	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	03/10/22	0.16JE/ND(0.2)U*	ND(10)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	06/29/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	09/15/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	12/07/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/21	ND(2)	--	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	03/10/22	0.18JE/ND(0.2)U*	ND(10)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	06/29/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	12/14/21	ND(2)	--	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	03/10/22	0.28 JB	ND(10)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	06/29/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	09/20/22	0.58J/ND(1)U*	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	0.24E/ND(0.24)U*	ND(10)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	06/08/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	09/20/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	12/07/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/29/21	0.52	--	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	03/24/22	0.44 JB	ND(10)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	06/08/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	09/20/22	0.36J/ND(1)U*	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/07/22	0.34 J	ND(40)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	1,2,4-Trichlorobenzene (ug/L)	1,2-Dichlorobenzene (ug/L)	1,3-Dichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)	1,4-Dioxane (ug/L)	1-Methylnaphthalene (ug/L)	2,4,5-Trichlorophenol (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2,4-Dimethylphenol (ug/L)
	Cleanup Levels		70	600	NA	75	4.59	11.38	1,166	11.9	45.3	354
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	--	--	--	ND(5)	ND(1) UJ	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-4B	12/22/22	--	--	--	ND(5)	ND(1)	ND(0.3)	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	--	--	ND(5)	0.42 J	ND(0.1) UJ	--	ND(5)	--	ND(5)
Western Boundary Wells	BW-5B	06/09/22	--	--	--	ND(5)	0.76 J	ND(0.3)	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5B	09/27/22	--	--	--	ND(5)	0.96 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5B	12/22/22	--	--	--	ND(5)	0.64 J	ND(0.3)	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	2.3	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	--	--	ND(5)	2.2	ND(0.1) UJ	--	ND(5)	--	ND(5)
Western Boundary Wells	BW-5C	06/09/22	--	--	--	ND(5)	3.9	ND(0.3)	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5C	09/27/22	--	--	--	ND(5)	3.5 J	ND(0.3) UJ	--	ND(10)	--	ND(10)
Western Boundary Wells	BW-5C	12/22/22	--	--	--	ND(5)	2.9	ND(5)	--	ND(10)	--	ND(10)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	2,4-Dinitrophenol (ug/L)	2,4-Dinitro Toluene (ug/L)	2,6-Dinitro Toluene (ug/L)	2-Chloronaphthalene (ug/L)	2-Chlorophenol (ug/L)	2-Methylnaphthalene (ug/L)	2-Methylphenol (ug/L)	2-Nitroaniline (ug/L)	2-Nitrophenol (ug/L)	3,3'-Dichlorobenzidine (ug/L)
	Cleanup Levels		38.7	2.37	0.485	733	91	35.1	930	190	NA	1.25
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-4B	12/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(5)	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Western Boundary Wells	BW-5B	06/09/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Western Boundary Wells	BW-5B	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-5B	12/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(5)	--	--	--	--	ND(0.1) UJ	ND(5)	--	--	--
Western Boundary Wells	BW-5C	06/09/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--
Western Boundary Wells	BW-5C	09/27/22	ND(20)	--	--	--	--	ND(0.3) UJ	ND(10)	--	--	--
Western Boundary Wells	BW-5C	12/22/22	ND(20)	--	--	--	--	ND(0.3)	ND(10)	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	3,4-Methylphenol (ug/L)	3-Nitroaniline (ug/L)	2-Methyl-4,6-dinitrophenol (ug/L)	4-Bromophenylphenylether (ug/L)	4-Chloro-3-Methylphenol (ug/L)	4-Chloroaniline (ug/L)	4-Chlorophenylphenylether (ug/L)	4-Nitroaniline (ug/L)	4-Nitrophenol (ug/L)	Acenaphthene (ug/L)
	Cleanup Levels		370	NA	1.52	NA	1400	0.37	NA	3.8	NA	535
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-4B	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1) UJ
Western Boundary Wells	BW-5B	06/09/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Western Boundary Wells	BW-5B	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-5B	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(5)	--	--	--	--	--	--	--	--	ND(0.1) UJ
Western Boundary Wells	BW-5C	06/09/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)
Western Boundary Wells	BW-5C	09/27/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3) UJ
Western Boundary Wells	BW-5C	12/22/22	ND(10)	--	--	--	--	--	--	--	--	ND(0.3)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Acenaphthylene (ug/L)	Aniline (ug/L)	Anthracene (ug/L)	Azobenzene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Benzoic Acid (ug/L)
	Cleanup Levels		NA	13	1,721	0.12	0.12	0.2	0.34	NA	3.43	75,000
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	ND(22)
Western Boundary Wells	BW-1C	09/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	ND(22)
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Western Boundary Wells	BW-2B	09/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	ND(200)
Western Boundary Wells	BW-2C	09/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	ND(20)
Western Boundary Wells	BW-3B	09/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	ND(200)
Western Boundary Wells	BW-3C	09/28/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-4B	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	ND(20)
Western Boundary Wells	BW-5B	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Western Boundary Wells	BW-5B	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-5B	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-5B	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	--	--	--	--	--	ND(20)
Western Boundary Wells	BW-5C	03/08/22	--	--	ND(0.1)	--	ND(0.1)	--	ND(0.1)	--	--	ND(20)
Western Boundary Wells	BW-5C	06/09/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-5C	09/27/22	--	--	ND(0.3) UJ	--	ND(0.3)	--	ND(0.3)	--	--	ND(20)
Western Boundary Wells	BW-5C	12/22/22	--	--	ND(0.3)	--	ND(0.3)	--	ND(0.4)	--	--	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Benzyl Alcohol (ug/L)	Bis(2chloroethoxy)methane (ug/L)	Bis(2-chloroethyl)ether (ug/L)	Bis(2chloroisopropyl)ether (ug/L)	Bis(2-ethylhexyl)phthalate (ug/L)	Benzyl Butyl Phthalate (ug/L)	Carbazole (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dibenzofuran (ug/L)
	Cleanup Levels		2,000	59	0.137	9.81	55.64	16	NA	34.3	0.034	7.9
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	ND(11)	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	ND(11)	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	ND(10)	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	ND(100)	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	ND(10)	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	ND(100)	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Western Boundary Wells	BW-4B	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	4.8 J	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Western Boundary Wells	BW-5B	06/09/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-5B	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Western Boundary Wells	BW-5B	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	ND(10)	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	--	--	--	ND(10)	--	--	ND(0.1)	--	--
Western Boundary Wells	BW-5C	06/09/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--
Western Boundary Wells	BW-5C	09/27/22	--	--	--	--	ND(10)	--	--	ND(0.3) UJ	--	--
Western Boundary Wells	BW-5C	12/22/22	--	--	--	--	ND(10)	--	--	ND(0.3)	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Diethylphthalate (ug/L)	Dimethyl Phthalate (ug/L)	Di-n-butylphthalate (ug/L)	Di-n-octylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachloro Benzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)
	Cleanup Levels		14,801	612	885	200	802	288	0.0976	0.14	0.41	3.28
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	ND(22)	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Western Boundary Wells	BW-2A	09/29/21	--	--	--	ND(22)	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	ND(20)	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Western Boundary Wells	BW-2C	09/29/21	--	--	--	ND(200)	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	ND(20)	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Western Boundary Wells	BW-3C	09/29/21	--	--	--	ND(200)	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3) UJ	--	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-4B	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	ND(20)	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Western Boundary Wells	BW-5B	06/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5B	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5B	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5C	12/08/21	--	--	--	ND(20)	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.2)	ND(0.1)	--	--	--	--
Western Boundary Wells	BW-5C	06/09/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5C	09/27/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3) UJ	ND(0.3)	--	--	--	--
Western Boundary Wells	BW-5C	12/22/22	ND(10)	ND(10)	ND(10)	ND(20)	ND(0.3)	ND(0.3)	--	--	--	--

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Indeno(1,2,3-cd)pyrene (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitrosodimethylamine (ug/L)	N-Nitrosodi-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)
	Cleanup Levels		0.343	781	30	1.4	0.0049	0.011	122	1	170	5,761
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(0.3)	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Western Boundary Wells	BW-4B	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5)
Western Boundary Wells	BW-5B	06/09/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-5B	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Western Boundary Wells	BW-5B	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(0.3)	--	ND(0.1) UJ	--	--	--	--	--	ND(0.1)	ND(5)
Western Boundary Wells	BW-5C	06/09/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)
Western Boundary Wells	BW-5C	09/27/22	ND(0.3) UJ	--	ND(0.3) UJ	--	--	--	--	--	ND(0.3) UJ	ND(20)
Western Boundary Wells	BW-5C	12/22/22	ND(0.3)	--	ND(0.3)	--	--	--	--	--	ND(0.3)	ND(20)

TABLE 5-2. SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Pyrene (ug/L)	Pyridine (ug/L)	Benzidine (ug/L)	2,3,4,6-Tetrachlorophenol (ug/L)	2,3,5,6-Tetrachlorophenol (ug/L)	Dibenz(a,h)acridine (ug/L)	7,12-Dimethylbenz(a)anthracene (ug/L)	1,2-Diphenylhydrazine (ug/L)	Quinoline (ug/L)	Thiophenol (Benzene thiol) (ug/L)
	Cleanup Levels		117	20	0.0011	240	NA	NA	0.0001	0.780	0.024	17
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/29/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	06/09/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/08/21	--	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	ND(0.2)	ND(10)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	06/09/22	ND(1)	ND(60)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	09/27/22	ND(1) UJ	ND(40)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/22/22	ND(1)	ND(40)	--	--	--	--	--	--	--	--

-- = Not Measured
^ = The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration by the data validator. The result was determined to be a false positive.
J = Estimated concentration
J- = Estimated concentration, possibly biased low
JB = Estimated concentration due to blank contamination
ND(x) = Not detected, where x = the reporting limit
NS - Dry = Not sampled due to dry well
NS - SPH = Not sampled due to presence of Separate Phase Hydrocarbons
NS - UTA = Not sampled, unable to access location
Q = Quarter
R = Rejected, Data not usable
U = Evaluated to be undetected at the reported concentration
ug/L = micrograms per liter
UJ = Estimated reporting limit

Notes:
Bolded detections and italicized non-detections exceeded the cleanup levels selected in Table 3-2.
Data prior to July 2019 was not validated and flags have not been applied.

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Deep Monitoring Wells	OW-01	12/08/21	--	--	0.76 J	48	--	--	ND(2)	--	6.6	--	--	360	0.45 J
Deep Monitoring Wells	OW-01	03/15/22	--	ND(1)	0.69 J	41	ND(2)	--	ND(2)	--	3.3 J	ND(6)	--	--	0.19 J
Deep Monitoring Wells	OW-01	06/15/22	--	ND(1)	0.78 J	44 J+	ND(2)	--	ND(2)	--	4.5 J	ND(6)	--	--	0.25 J
Deep Monitoring Wells	OW-01	09/27/22	--	ND(1)	0.65 J	41	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.14 J
Deep Monitoring Wells	OW-01	12/22/22	--	ND(1)	0.88 J	34	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-10	12/08/21	--	--	1.3 J	88	--	--	ND(2)	--	4.3 J	--	--	1500	1.9 J
Deep Monitoring Wells	OW-10	03/08/22	--	ND(1)	0.65 J	49	ND(1)	--	ND(0.5)	--	ND(1)	ND(1)	--	--	0.11 J
Deep Monitoring Wells	OW-10	06/08/22	--	ND(1)	1.1	57	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Deep Monitoring Wells	OW-10	09/27/22	--	ND(1)	0.51 J	48	ND(2)	--	ND(2)	--	ND(6)	4.2 J	--	--	0.088 J
Deep Monitoring Wells	OW-10	12/22/22	--	ND(1)	0.61 J	49	ND(2)	--	ND(2)	--	ND(6)	6.2 J+	--	--	ND(0.5)
Deep Monitoring Wells	OW-11	09/18/18	--	--	2	8	--	--	ND(2)	--	ND(6)	--	ND(6)	12	ND(0.5)
Deep Monitoring Wells	OW-11	08/20/19	4.5	ND(1)	2	7.3	ND(2)	1300	ND(2)	--	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-11	09/20/20	13 J	ND(1)	1.7	7.8	ND(2)	1500	ND(2)	--	ND(6)	ND(6)	ND(6)	ND(50)	ND(0.5)
Deep Monitoring Wells	OW-11	09/30/21	--	--	2	6.4	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(50)	ND(0.5)
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	--	2	38	--	--	ND(2)	--	4.6	--	ND(6)	430	1
Deep Monitoring Wells	OW-12	09/17/20	230	ND(1)	1.7	26	ND(10)	400	ND(10)	--	ND(30)	ND(30)	ND(30)	180 J	0.51
Deep Monitoring Wells	OW-12	09/30/21	--	--	1.5	19	--	--	ND(2)	--	ND(6)	--	ND(1)	48 J	0.093 J
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	ND(1) UJ	1.5	19	ND(2)	--	ND(2)	--	ND(6)	ND(6) UJ	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	12/07/21	--	--	0.73 J	22	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(50)	ND(0.5)
Deep Monitoring Wells	OW-13	03/23/22	--	ND(1)	0.75 J	20	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.067 J
Deep Monitoring Wells	OW-13	06/09/22	--	ND(1)	1.2	21	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	09/07/22	--	ND(1)	0.63 J	19 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	12/28/22	--	ND(1)	0.61 J	19	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	2.8	150	--	--	ND(2)	--	ND(6)	--	4.8 J	590	0.52
Eastern Boundary Wells	OW-12A	03/22/22	--	ND(5)	9.8	1900	ND(2)	--	ND(2)	--	12	10	--	--	9.9
Eastern Boundary Wells	OW-12A	06/28/22	--	ND(1)	10	2100	ND(2)	--	ND(2)	--	14	12	--	--	15
Eastern Boundary Wells	OW-12A	09/15/22	--	ND(1)	9.7	1300	ND(2)	--	ND(2)	--	10	11 J+	--	--	12
Eastern Boundary Wells	OW-12A	12/07/22	--	ND(1) UJ	16	240	ND(2)	--	ND(2)	--	ND(6)	17 JB	--	--	5.4
Eastern Boundary Wells	OW-14	12/30/21	--	--	4.2	2200 J+	--	--	ND(2)	--	ND(6)	--	ND(1)	4700	0.14 J
Eastern Boundary Wells	OW-14	03/24/22	--	ND(1)	3.1	2100	ND(2)	--	ND(2)	--	ND(6)	4.9 J	--	--	0.097 J
Eastern Boundary Wells	OW-14	06/30/22	--	ND(1)	3.8	2300	ND(2)	--	ND(2)	--	ND(6)	10	--	--	0.74
Eastern Boundary Wells	OW-14	09/30/22	--	ND(1)	2.8	2300	ND(2)	--	ND(2)	--	ND(6)	6.4	--	--	ND(0.5)
Eastern Boundary Wells	OW-14	12/29/22	--	ND(1)	2.3	2000 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	12/07/21	--	--	ND(5)	88	--	--	ND(2)	--	ND(6)	--	ND(5)	600 J+	0.11 J
Eastern Boundary Wells	OW-29	03/08/22	--	ND(1)	0.76 J	100	ND(1)	--	ND(0.5)	--	1.7	0.89 J	--	--	0.28 J
Eastern Boundary Wells	OW-29	06/09/22	--	ND(1)	ND(5)	82	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	09/07/22	--	ND(1)	0.55 J	75 J-	ND(2)	--	ND(2)	--	ND(6)	7.5	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	12/27/22	--	ND(1)	1.4	86	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-30	12/30/21	--	--	0.93 J	150 J+	--	--	ND(2)	--	ND(6)	--	4.1	310 J	0.9
Eastern Boundary Wells	OW-30	03/24/22	--	ND(1)	0.66 J	140	ND(2)	--	ND(2)	--	ND(6)	4.2 J	--	--	0.87
Eastern Boundary Wells	OW-30	06/30/22	--	ND(1)	0.92 J	170	ND(2)	--	ND(2)	--	ND(6)	4.3 J	--	--	0.99
Eastern Boundary Wells	OW-30	09/30/22	--	ND(1)	0.92 J	150	ND(2)	--	ND(2)	--	ND(6)	5.7 J	--	--	1.8
Eastern Boundary Wells	OW-30	12/29/22	--	ND(1)	0.85 J	120 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.67
Eastern Boundary Wells	OW-50	12/07/21	--	--	2	57	--	--	ND(2)	--	ND(6)	--	ND(1)	17 J	ND(0.5)
Eastern Boundary Wells	OW-50	03/08/22	--	ND(1)	2.2	55	ND(1)	--	ND(0.5)	--	ND(1)	ND(1)	--	--	ND(0.5)
Eastern Boundary Wells	OW-50	06/09/22	--	ND(1)	2.2	54	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-50	09/07/22	--	ND(1)	2	47 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.078 J
Eastern Boundary Wells	OW-50	12/27/22	--	ND(1)	2.3	52	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-52	12/07/21	--	--	0.64 J	44	--	--	ND(2)	--	6.9	--	0.88 J	1200	0.67
Eastern Boundary Wells	OW-52	03/08/22	--	ND(1)	0.75 J	35	ND(1)	--	ND(0.5)	--	1.4	0.48 J	--	--	0.23 J
Eastern Boundary Wells	OW-52	06/09/22	--	ND(1)	0.65 J	29	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-52	09/07/22	--	ND(1)	0.78 J	38 J-	ND(2)	--	ND(2)	--	2 J	ND(6)	--	--	0.45 J
Eastern Boundary Wells	OW-52	12/27/22	--	ND(1)	0.45 J	27	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	6.5	200 J+	--	--	ND(2)	--	ND(6)	--	4.7	1100	9
Eastern Boundary Wells	OW-54	03/23/22	--	ND(1)	9.8	390	ND(2)	--	ND(2)	--	6.4	78	--	--	23
Eastern Boundary Wells	OW-54	06/15/22	--	ND(1)	5.1	470 J+	ND(2)	--	ND(2)	--	5.9 J	95	--	--	19
Eastern Boundary Wells	OW-54	09/07/22	--	ND(1)	11	470 J-	ND(2)	--	ND(2)	--	12	82	--	--	33
Eastern Boundary Wells	OW-54	12/27/22	--	ND(1)	5.4	550	1.2 J	--	2.7	--	8.7	85 J+	--	--	39
Eastern Boundary Wells	OW-55	12/29/21	--	--	5.2	610 J+	--	--	ND(2)	--	ND(6)	--	0.66 J	4000	0.57
Eastern Boundary Wells	OW-55	03/23/22	--	ND(1)	11	700	ND(2)	--	ND(2)	--	8	41	--	--	8.2
Eastern Boundary Wells	OW-55	06/15/22	--	ND(1)	8.4	740 J+	ND(2)	--	ND(2)	--	6.8	33	--	--	6.1
Eastern Boundary Wells	OW-55	09/07/22	--	ND(1)	9.6	690 J-	ND(2)	--	ND(2)	--	11	35	--	--	7.4
Eastern Boundary Wells	OW-55	12/27/22	--	ND(1)	9.5	800	1.8 J	--	ND(2)	--	8.1	36 J+	--	--	13
Eastern Boundary Wells	OW-56	12/23/21	--	--	3.4 J	420	--	--	ND(2)	--	ND(6)	--	5.8	770	1
Eastern Boundary Wells	OW-56	03/23/22	--	ND(1)	5.5	450	ND(2)	--	ND(2)	--	ND(6)	6.9	--	--	1.5
Eastern Boundary Wells	OW-56	06/15/22	--	ND(1)	4.2 J	460 J+	ND(2)	--	ND(2)	--	ND(6)	4.7 J	--	--	1.3
Eastern Boundary Wells	OW-56	09/07/22	--	ND(1)	3.6	410 J-	ND(2)	--	ND(2)	--	4.9 J	6.6	--	--	2.1
Eastern Boundary Wells	OW-56	12/28/22	--	ND(1)	4.8	460	ND(2)	--	ND(2)	--	ND(6)	7.3 J+	--	--	1.5
Eastern Boundary Wells	OW-66	12/07/21	--	--	7.7	1400	--	--	ND(2)	--	4 J	--	13	7000 J+	26
Eastern Boundary Wells	OW-66	03/23/22	--	ND(1)	9.8	2300	ND(2)	--	ND(2)	--	17	9.5	--	--	38
Eastern Boundary Wells	OW-66	06/15/22	--	ND(1)	7	2000 J+	ND(2)	--	ND(2)	--	10	9.6	--	--	21
Eastern Boundary Wells	OW-66	09/07/22	--	ND(1)	8.6	2500 J-	ND(2)	--	ND(2)	--	17	9.3	--	--	28
Eastern Boundary Wells	OW-66	12/27/22	--	ND(1)	9.8	2700	0.76 J	--	ND(2)	--	6.1	4J/ND(6)U*	--	--	21
Eastern Boundary Wells	OW-70	12/22/21	--	--	3.2	610	--	--	ND(2)	--	ND(6)	--	7.9	370	0.31 J
Eastern Boundary Wells	OW-70	03/22/22	--	ND(1)	3.8	920	ND(2)	--	ND(2)	--	10	11	--	--	3.8
Eastern Boundary Wells	OW-70	06/28/22	--	ND(1)	2.4	830	ND(2)	--	ND(2)	--	6.1	9.9	--	--	2
Eastern Boundary Wells	OW-70	09/15/22	--	ND(1)	2.8	790	ND(2)	--	ND(2)	--	7	9.4 J+	--	--	2.3 J
Eastern Boundary Wells	OW-70	12/14/22	--	ND(1)	3.7	1100	1.3J/ND(2)U*	--	ND(2)	--	12	10	--	--	4.6

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
	Cleanup Levels		NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Deep Monitoring Wells	OW-01	12/08/21	--	16	ND(0.2)	--	--	2.1	ND(5)	--	--	--	34	--	6.5 J
Deep Monitoring Wells	OW-01	03/15/22	--	--	ND(0.2)	--	ND(10)	2.7	ND(5)	--	--	--	--	43 J	ND(10)
Deep Monitoring Wells	OW-01	06/15/22	--	--	ND(0.2)	--	ND(10)	2.6 J+	ND(5)	--	--	--	--	43 J	ND(10)
Deep Monitoring Wells	OW-01	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	2	ND(5)	--	--	--	--	41 J	ND(10)
Deep Monitoring Wells	OW-01	12/22/22	--	--	0.12J/ND(0.2)U*	--	ND(10)	1.5	ND(5)	--	--	--	--	49 J	ND(10)
Deep Monitoring Wells	OW-10	12/08/21	--	160	ND(0.2)	--	--	9.2	ND(5)	--	--	--	44	--	35
Deep Monitoring Wells	OW-10	03/08/22	--	--	ND(0.2)	--	1.2	10	ND(0.5)	--	--	--	--	8	ND(10)
Deep Monitoring Wells	OW-10	06/08/22	--	--	ND(0.2)	--	ND(10)	13	ND(5)	--	--	--	--	6.1 J	8.1 J
Deep Monitoring Wells	OW-10	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	11	ND(5)	--	--	--	--	7.2 J	ND(10)
Deep Monitoring Wells	OW-10	12/22/22	--	--	0.11J/ND(0.2)U*	--	ND(10)	7.6	ND(5)	--	--	--	--	7.3 J	ND(10)
Deep Monitoring Wells	OW-11	09/18/18	--	18	0.055	--	--	2.4	ND(5)	--	--	--	180	--	ND(10)
Deep Monitoring Wells	OW-11	08/20/19	--	18	ND(0.2)	180	ND(10)	4.4	ND(5)	--	ND(0.5)	--	190	--	ND(10)
Deep Monitoring Wells	OW-11	09/20/20	--	17	ND(0.2)	210	ND(10)	--	ND(1)	ND(5)	--	ND(0.25)	200	--	ND(10) UJ
Deep Monitoring Wells	OW-11	09/30/21	--	23	ND(0.2)	--	--	ND(1)	--	--	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	18	0.062	--	--	ND(1)	ND(5)	--	--	--	11	--	6.4
Deep Monitoring Wells	OW-12	09/17/20	--	9.5 J	0.15 J+	ND(40)	ND(50)	ND(1)	ND(25)	--	ND(0.25)	ND(1)	14	--	ND(50)
Deep Monitoring Wells	OW-12	09/30/21	--	3.9 JB	ND(0.2)	--	--	ND(1)	--	--	--	--	--	--	ND(10)
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	0.13J/ND(0.2)U*	--	ND(10)	ND(1)	ND(5)	--	--	--	--	12 J	ND(10)
Deep Monitoring Wells	OW-13	12/07/21	--	25	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	17	--	ND(10)
Deep Monitoring Wells	OW-13	03/23/22	--	--	ND(0.2)	--	ND(10) UJ	ND(1)	ND(5)	--	--	--	--	2.5 J	ND(10)
Deep Monitoring Wells	OW-13	06/09/22	--	--	ND(0.2)	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	4.5 J
Deep Monitoring Wells	OW-13	09/07/22	--	--	0.17J/ND(0.2)U*	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Deep Monitoring Wells	OW-13	12/28/22	--	--	0.17J/ND(0.2)U*	--	ND(10)	ND(1) UJ	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-12A	12/22/21	--	770	ND(0.2)	--	--	1.4	ND(5)	--	--	--	33	--	14 J
Eastern Boundary Wells	OW-12A	03/22/22	--	--	ND(0.2)	--	14 J-	2.2 J	ND(5)	--	--	--	--	34 J	29
Eastern Boundary Wells	OW-12A	06/28/22	--	--	ND(0.2)	--	20 J+	2.4	ND(5)	--	--	--	--	32 J	43
Eastern Boundary Wells	OW-12A	09/15/22	--	--	ND(0.2)	--	12	1.8	ND(5)	--	--	--	--	27 J	8.3 J
Eastern Boundary Wells	OW-12A	12/07/22	--	--	ND(0.2)	--	ND(10)	1.6	ND(5)	--	--	--	--	ND(50)	5.6 J
Eastern Boundary Wells	OW-14	12/30/21	--	1900	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	1.7	--	ND(10)
Eastern Boundary Wells	OW-14	03/24/22	--	--	ND(0.2)	--	86 J-	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-14	06/30/22	--	--	ND(0.2)	--	100 J+	ND(1)	ND(5)	--	--	--	--	ND(50)	7.1 J
Eastern Boundary Wells	OW-14	09/30/22	--	--	ND(0.2)	--	67	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-14	12/29/22	--	--	0.39	--	84	ND(1)	ND(5)	--	--	--	--	ND(50)	6.6J/ND(10)U*
Eastern Boundary Wells	OW-29	12/07/21	--	370	ND(0.2)	--	--	ND(5)	ND(5)	--	--	--	51	--	ND(10)
Eastern Boundary Wells	OW-29	03/08/22	--	--	ND(0.2)	--	27	ND(1)	ND(0.5)	--	--	--	--	1.5	ND(10)
Eastern Boundary Wells	OW-29	06/09/22	--	--	ND(0.2)	--	26	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-29	09/07/22	--	--	0.16J/ND(0.2)U*	--	23 J+	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-29	12/27/22	--	--	0.097J/ND(0.2)U*	--	29 J+	1.2 J-	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-30	12/30/21	--	180	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	28	--	7.3 J
Eastern Boundary Wells	OW-30	03/24/22	--	--	ND(0.2)	--	82 J-	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-30	06/30/22	--	--	ND(0.2)	--	88 J+	ND(1)	ND(5)	--	--	--	--	ND(50)	9.7 J
Eastern Boundary Wells	OW-30	09/30/22	--	--	ND(0.2)	--	75	ND(1)	ND(5)	--	--	--	--	4.8 J	ND(10)
Eastern Boundary Wells	OW-30	12/29/22	--	--	ND(0.2)	--	98	1.5 JB	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-50	12/07/21	--	120	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	13	--	ND(10)
Eastern Boundary Wells	OW-50	03/08/22	--	--	ND(0.2)	--	1.3	ND(1)	ND(0.5)	--	--	--	--	ND(1)	ND(10)
Eastern Boundary Wells	OW-50	06/09/22	--	--	ND(0.2)	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	4.3 J
Eastern Boundary Wells	OW-50	09/07/22	--	--	0.19J/ND(0.2)U*	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-50	12/27/22	--	--	0.1J/ND(0.2)U*	--	ND(10)	ND(1) UJ	ND(5)	--	--	--	--	ND(50)	4.4J/ND(10)U*
Eastern Boundary Wells	OW-52	12/07/21	--	56	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	12	--	ND(10)
Eastern Boundary Wells	OW-52	03/08/22	--	--	ND(0.2)	--	0.92 J	ND(1)	ND(0.5)	--	--	--	--	6.7	ND(10)
Eastern Boundary Wells	OW-52	06/09/22	--	--	ND(0.2)	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-52	09/07/22	--	--	0.19J/ND(0.2)U*	--	ND(10)	ND(1)	ND(5)	--	--	--	--	ND(50)	ND(10)
Eastern Boundary Wells	OW-52	12/27/22	--	--	0.097J/ND(0.2)U*	--	ND(10)	ND(1) UJ	ND(5)	--	--	--	--	ND(50)	9.2J/ND(10)U*
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	1400	ND(0.2)	--	--	0.59 J	ND(5)	--	--	--	54	--	12
Eastern Boundary Wells	OW-54	03/23/22	--	--	0.14 J	--	240 J-	1.2	ND(5)	--	--	--	--	15 J	31
Eastern Boundary Wells	OW-54	06/15/22	--	--	ND(0.2)	--	250	ND(5)	ND(5)	--	--	--	--	16 J	29
Eastern Boundary Wells	OW-54	09/07/22	--	--	0.22 JB	--	210 J+	1.7 J+	ND(5)	--	--	--	--	25 J	20 JB
Eastern Boundary Wells	OW-54	12/27/22	--	--	0.23 JB	--	230 J+	2.8 J-	ND(5)	--	--	--	--	27 J	23 JB
Eastern Boundary Wells	OW-55	12/29/21	--	3300	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	5	--	ND(10)
Eastern Boundary Wells	OW-55	03/23/22	--	--	ND(0.2)	--	240 J-	ND(10)	ND(5)	--	--	--	--	23 J	39
Eastern Boundary Wells	OW-55	06/15/22	--	--	ND(0.2)	--	240	ND(5)	ND(5)	--	--	--	--	20 J	22
Eastern Boundary Wells	OW-55	09/07/22	--	--	0.17J/ND(0.2)U*	--	220 J+	1.5 J+	ND(5)	--	--	--	--	27 J	26 JB
Eastern Boundary Wells	OW-55	12/27/22	--	--	0.11J/ND(0.2)U*	--	250 J+	4.8 J-	ND(5)	--	--	--	--	36 J	40 JB
Eastern Boundary Wells	OW-56	12/23/21	--	190	ND(0.2)	--	--	ND(5)	ND(5)	--	--	--	14	--	ND(10)
Eastern Boundary Wells	OW-56	03/23/22	--	--	ND(0.2)	--	72 J-	0.82 J	ND(5)	--	--	--	--	8.3 J	10
Eastern Boundary Wells	OW-56	06/15/22	--	--	ND(0.2)	--	69	ND(5)	ND(5)	--	--	--	--	6.3 J	6.6 J
Eastern Boundary Wells	OW-56	09/07/22	--	--	0.16J/ND(0.2)U*	--	64 J+	0.5 J+	ND(5)	--	--	--	--	14 J	9.3J/ND(10)U*
Eastern Boundary Wells	OW-56	12/28/22	--	--	0.29 JB	--	78 J+	2.3 J-	ND(5)	--	--	--	--	5.7 J	11 JB
Eastern Boundary Wells	OW-66	12/07/21	--	2400	ND(0.2)	--	--	ND(5)	ND(5)	--	--	--	1.8 J	--	12
Eastern Boundary Wells	OW-66	03/23/22	--	--	ND(0.2)	--	330 J-	2.4	ND(5)	--	--	--	--	34 J	23
Eastern Boundary Wells	OW-66	06/15/22	--	--	ND(0.2)	--	360	2 J+	ND(5)	--	--	--	--	26 J	13
Eastern Boundary Wells	OW-66	09/07/22	--	--	0.19J/ND(0.2)U*	--	300 J+	2.3 J+	ND(5)	--	--	--	--	36 J	7.8J/ND(10)U*
Eastern Boundary Wells	OW-66	12/27/22	--	--	0.12J/ND(0.2)U*	--	330 J+	1.8 J-	ND(5)	--	--	--	--	27 J	12 JB
Eastern Boundary Wells	OW-70	12/22/21	--	310	ND(0.2)	--	--	ND(1)	ND(5)	--	--	--	8.2	--	ND(10) UJ
Eastern Boundary Wells	OW-70	03/22/22	--	--	ND(0.2)	--	47 J-	0.72 J	ND(5)	--	--	--	--	18 J	14
Eastern Boundary Wells	OW-70	06/28/22	--	--	ND(0.2)	--	50 J+	0.51 J	ND(5)	--	--	--	--	13 J	17
Eastern Boundary Wells	OW-70	09/15/22	--	--	ND(0.2)	--	46	0.69 J	ND(5)	--	--	--	--	14 J	4.7 J
Eastern Boundary Wells	OW-70	12/14/22	--	--	ND(0.2)	--	51	3.1	ND(5)	--	--	--	--	21 J	14 J-

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Evaporation Ponds	EP-2	12/21/20	ND(200)	ND(2)	5.37	33.3 J	ND(3)	ND(100) UJ	ND(5)	--	ND(10)	ND(10)	ND(20)	366 J	ND(1)
Evaporation Ponds	EP-2	06/21/21	230	ND(5)	9.5 J	240	ND(2)	620	ND(2)	330000	3.1 J	6.2	5 J	850	ND(5)
Evaporation Ponds	EP-2	12/15/21	--	--	8.3 J	210	--	--	ND(2)	--	ND(6)	--	4.6 J+	700	ND(5)
Evaporation Ponds	EP-2	06/24/22	--	ND(5)	11	170	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Evaporation Ponds	EP-2	09/09/22	--	1.8 JB	11	150	ND(2)	--	ND(2)	--	ND(6)	18	--	--	ND(0.5)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	1550	ND(2)	10.1	146	ND(3)	678	ND(5)	--	ND(10)	ND(10)	ND(20)	3050	ND(1)
Evaporation Ponds	EP-3	06/21/21	ND(200)	ND(100)	60 J	360	ND(20)	4400	ND(20)	1600000	ND(60)	39 J	ND(60)	5300	ND(50)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(200)	ND(2)	21.8	196	ND(3)	1030	ND(5)	--	ND(10)	ND(10)	ND(20)	797	ND(1)
Evaporation Ponds	EP-4	06/21/21	760	ND(50)	83	300	ND(20)	3900	ND(20)	1600000	ND(60)	32 J	ND(60)	1400	ND(25)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	386	ND(1)	23.7	178	ND(3)	975	ND(5)	--	ND(10)	ND(10)	ND(20)	370	1.14
Evaporation Ponds	EP-5	06/21/21	58 J	ND(50)	55	210	ND(10)	2500	ND(10)	1300000	ND(30)	24 J	ND(30)	460	ND(25)
Evaporation Ponds	EP-5	12/15/21	--	--	200	260	--	--	ND(40)	--	ND(120)	--	ND(100)	2800	ND(50)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	367	2.31	30	246	ND(3)	970	ND(5)	--	ND(10)	ND(10)	ND(20)	262	ND(1)
Evaporation Ponds	EP-6	06/21/21	350	ND(50)	36 J	130	ND(10)	1500	ND(10)	740000	ND(30)	14 J	ND(30)	230 J	ND(25)
Evaporation Ponds	EP-6	12/15/21	--	--	53	200	--	--	ND(10)	--	ND(30)	--	ND(20)	1400	1.7 J
Evaporation Ponds	EP-6	06/24/22	--	ND(20)	130	310	ND(20)	--	ND(20)	--	ND(60)	ND(60)	--	--	ND(50)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(1000)	ND(20)	464	217	ND(15)	11100	ND(25)	--	55.8	ND(50)	ND(100)	ND(1000)	ND(10)
Evaporation Ponds	EP-7	06/21/21	ND(400)	ND(100)	840	ND(60)	ND(40)	26000	ND(40)	190000	ND(120)	ND(120)	ND(120)	ND(1000)	ND(50)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(1000) UJ	ND(20)	552	ND(50)	ND(15)	18100	ND(25)	--	75.8	ND(50)	ND(100)	ND(1000)	ND(10)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	1700	ND(150)	--	--	ND(100)	--	ND(300)	--	ND(100)	780 J	6.7 J
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(1000)	ND(20)	380	304	ND(15)	8680	ND(25)	--	50.6	ND(50)	ND(100)	ND(1000)	ND(10)
Evaporation Ponds	EP-9	06/21/21	ND(1000)	ND(100)	1000	ND(150)	ND(100)	29000	ND(100)	230000	ND(300)	ND(300)	ND(300)	ND(1000)	ND(50)
Evaporation Ponds	EP-9	12/15/21	--	--	1700	ND(150)	--	--	ND(100)	--	ND(300)	--	ND(100)	420 J	ND(50)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	1170 J	ND(20)	423 J	ND(50)	ND(50)	18600	ND(25)	--	95.9	ND(50)	ND(100)	ND(1000)	ND(10)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	34700 J	ND(10)	22.4	347	ND(3)	1360	ND(5)	--	41	17.1	ND(20)	28800	17.3
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	409 J	ND(10)	16	195	ND(3)	905	ND(5)	--	ND(10)	ND(10)	ND(20)	956	ND(5)
Evaporation Ponds	EP-12B	06/21/21	130	ND(50)	63	290	ND(10)	2900	ND(10)	1700000	ND(30)	27 J	ND(30)	1100	ND(25)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	3.6 J	42	--	--	ND(2)	--	ND(6)	--	18 J+	690	ND(5)
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	ND(1)	3	20	ND(2)	--	ND(2)	--	ND(6)	4.2 J	--	--	0.17 J
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	0.56 J	4.4	48	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	ND(1)	2.5	32	ND(2)	--	ND(2)	--	ND(6)	13	--	--	0.15J/ND(0.5)U*
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	ND(1)	1.9	20 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-1	09/13/18	--	ND(1)	1.3	13	ND(2)	--	ND(2)	--	1.8	--	ND(6)	160	1.3
Land Treatment Unit Wells	MW-1	12/06/18	--	ND(1)	1.1	ND(20)	ND(3)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(1)
Land Treatment Unit Wells	MW-1	08/12/19	260	ND(1)	1.3	14	ND(2)	700	ND(2)	--	1.7	ND(6)	ND(6)	120	0.37
Land Treatment Unit Wells	MW-1	09/22/20	81 J+	ND(1)	1.4	13	ND(2)	760	ND(2)	--	ND(6)	ND(6)	ND(6)	37 J+	0.42J/ND(0.5)U*
Land Treatment Unit Wells	MW-1	09/29/21	--	--	2.1	13	--	--	--	--	ND(6)	--	--	120	0.52
Land Treatment Unit Wells	MW-1	09/29/22	--	ND(1)	1.3	13	ND(2)	--	ND(2)	--	2.9J/ND(6)U*	ND(6)	--	--	0.73
Land Treatment Unit Wells	MW-2	09/13/18	--	ND(1)	0.99	17	ND(2)	--	ND(2)	--	ND(6)	--	ND(6)	10	ND(0.5)
Land Treatment Unit Wells	MW-2	12/06/18	--	ND(1)	1.1	ND(20)	ND(3)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(1)
Land Treatment Unit Wells	MW-2	08/13/19	15	ND(1)	1.2	18	ND(2)	750	ND(2)	--	ND(6)	ND(6)	ND(6)	69	ND(0.5)
Land Treatment Unit Wells	MW-2	09/18/20	69 JB	ND(1)	1	21	ND(2)	770	ND(2)	--	ND(6) UJ	ND(6)	ND(6)	36 J	0.39J/ND(0.5)U*
Land Treatment Unit Wells	MW-2	09/17/21	--	--	1.3 J	21	--	--	--	--	ND(6)	--	--	16 J	ND(2.5)
Land Treatment Unit Wells	MW-2	09/29/22	--	ND(1)	1	21	ND(2)	--	ND(2)	--	5J/ND(6)U*	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-4	09/13/18	--	ND(1)	0.76	20	ND(2)	--	ND(2)	--	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-4	12/06/18	--	ND(1)	ND(1)	21	ND(3)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(1)
Land Treatment Unit Wells	MW-4	08/13/19	11	ND(1)	0.71	21	ND(2)	380	ND(2)	--	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-4	09/18/20	300	ND(1)	0.78 J	29	ND(2)	380	ND(2)	--	3.7 J	ND(6)	ND(6)	130	2.7
Land Treatment Unit Wells	MW-4	09/17/21	--	--	0.91 J	27	--	--	--	--	3.1 J	--	--	250	14
Land Treatment Unit Wells	MW-4	09/30/22	--	ND(1)	0.68 J	21	ND(2)	--	ND(2)	--	3.6 J+	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-5	09/17/18	--	ND(1)	1.1	21	ND(2)	--	ND(2)	--	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	12/06/18	--	ND(1)	1	ND(20)	ND(3)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(1)
Land Treatment Unit Wells	MW-5	08/14/19	9.8	ND(1)	0.99	30	ND(2)	760	ND(2)	--	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	09/21/20	140	ND(1)	0.93 J	49	ND(2)	760	ND(2)	--	ND(6)	ND(6)	ND(6)	53 J+	0.11 J
Land Treatment Unit Wells	MW-5	09/29/21	--	--	1.1	18	--	--	--	--	ND(6)	--	--	ND(50)	ND(0.5)
Land Treatment Unit Wells	MW-5	09/29/22	--	ND(1)	0.97 J	60	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	OW-67	09/17/21	--	ND(5)	2.5 J	80	ND(10)	--	ND(10)	1000000	ND(30)	29 J	--	230 J	ND(2.5) UJ
Land Treatment Unit Wells	OW-67	12/23/21	--	--	3.1 J	93	--	--	ND(10)	--	ND(30)	19 J	ND(10)	1100	0.94 J
Land Treatment Unit Wells	OW-67	06/16/22	--	ND(10)	6.3 J	600	ND(10)	--	ND(10)	--	14 J	29 J	--	--	11
Land Treatment Unit Wells	OW-67	09/20/22	--	ND(5)	4	280	--	--	4.2	--	12	ND(6)	--	--	8
Land Treatment Unit Wells	OW-67	12/28/22	--	ND(5)	3.4 J	240	ND(2)	--	ND(2)	--	ND(6)	32 J+	--	--	5.9
Land Treatment Unit Wells	OW-68	09/17/21	--	ND(5)	5.8	130	ND(10)	--	ND(10)	790000	ND(30)	100	--	2900 J	2J/ND(2.5)U*
Land Treatment Unit Wells	OW-68	12/23/21	--	--	18	88	--	--	ND(10)	--	ND(30)	86	5.2 J	6500	9.3

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
	Cleanup Levels		NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Evaporation Ponds	EP-2	12/21/20	--	65.7 J	ND(0.2)	ND(100)	16.6	--	ND(5) UJ	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-2	06/21/21	130000	390	ND(0.2)	ND(8)	77	320000	3.4 J-	1.9 J	2600000	ND(2.5)	--	--	14
Evaporation Ponds	EP-2	12/15/21	--	330	ND(0.2)	--	--	--	ND(10)	ND(5)	--	--	1.3 J	--	11
Evaporation Ponds	EP-2	06/24/22	--	--	ND(0.2)	--	50 J+	--	ND(5)	ND(5)	--	--	--	ND(50)	4.4J/ND(10)U*
Evaporation Ponds	EP-2	09/09/22	--	--	0.15J/ND(0.2)U*	--	37	--	1.1	4.2 J	--	--	--	ND(50)	ND(10)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	--	281	ND(0.2)	ND(100)	124	--	ND(5) UJ	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-3	06/21/21	1400000	1100	ND(0.2)	ND(80)	460	2300000	ND(100) UJ	ND(50)	28000000	ND(25)	--	--	ND(100)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	--	739	ND(0.2)	ND(100)	91.5	--	ND(5) UJ	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-4	06/21/21	950000	1700	ND(0.2)	ND(80)	240	2000000	ND(50) UJ	ND(50)	20000000	ND(12)	--	--	ND(100)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	--	959	ND(0.2)	ND(100)	60.5	--	ND(5) UJ	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-5	06/21/21	580000	2100	ND(0.2)	ND(40)	89	1400000	ND(50) UJ	ND(25)	13000000	ND(12)	--	--	ND(50)
Evaporation Ponds	EP-5	12/15/21	--	10000	ND(0.2)	--	--	--	ND(100)	ND(100)	--	--	ND(50)	--	ND(200)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	--	975	ND(0.2)	ND(100)	52.4	--	ND(5) UJ	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-6	06/21/21	360000	1300	ND(0.2)	ND(40)	38 J	850000	ND(50) UJ	ND(25)	7400000	ND(12)	--	--	ND(50)
Evaporation Ponds	EP-6	12/15/21	--	2500	ND(0.2)	--	--	--	ND(10)	ND(25)	--	--	ND(10)	--	ND(50)
Evaporation Ponds	EP-6	06/24/22	--	--	ND(0.2)	--	240 J+	--	11 J	ND(50)	--	--	--	ND(500)	ND(100)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	--	3520	ND(0.2)	ND(500)	414	--	ND(50) UJ	ND(25)	--	ND(10)	ND(50)	--	ND(100)
Evaporation Ponds	EP-7	06/21/21	9100000	7100	ND(0.2)	140 J	620	12000000	42 J-	ND(100)	90000000	ND(25)	--	--	ND(200)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	--	5240	ND(0.2)	ND(500)	633	--	ND(50)	ND(25)	--	ND(10)	ND(50)	--	ND(100)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	15000	ND(0.2)	--	--	--	76 J	ND(250)	--	--	33 J	--	ND(500)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	--	4510	ND(0.2)	ND(500)	236	--	60 J-	ND(25)	--	ND(10)	ND(50)	--	ND(100)
Evaporation Ponds	EP-9	06/21/21	13000000	9500	ND(0.2)	350 J	490 J	14000000	ND(100) UJ	ND(250)	82000000	ND(25)	--	--	ND(500)
Evaporation Ponds	EP-9	12/15/21	--	16000	ND(1) UJ	--	--	--	ND(100)	ND(250)	--	--	25 J	--	ND(500)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	--	9550	ND(0.2)	ND(500)	674	--	ND(500)	ND(25)	--	ND(10)	ND(50)	--	ND(100)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	--	5430	ND(0.2) UJ	ND(100)	219	--	ND(25)	ND(5)	--	ND(5)	ND(25)	--	77.8
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	--	1050	ND(0.2) UJ	ND(100)	126	--	ND(25)	ND(5)	--	ND(5)	ND(25)	--	ND(20)
Evaporation Ponds	EP-12B	06/21/21	780000	1200	ND(0.2)	ND(40)	300	1600000	ND(50) UJ	7.5 J	16000000	ND(12)	--	--	ND(50)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	150	0.15 J	--	--	--	ND(10)	--	--	--	1.1 J	--	87
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	ND(0.2)	--	ND(10)	--	1.4	ND(5)	--	--	--	ND(50)	41
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	ND(0.2)	--	ND(10)	--	0.43 J	4.4 J	--	--	--	ND(50)	46 JB
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	0.22 JB	--	ND(10)	--	1.1	2.2 J	--	--	--	ND(50)	22
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	ND(0.2)	--	ND(10)	--	2.4 JB	ND(5)	--	--	--	ND(50)	28 JB
Land Treatment Unit Wells	MW-1	09/13/18	--	10	0.25	--	--	--	ND(1)	ND(5)	--	--	9.4	2.3	ND(10)
Land Treatment Unit Wells	MW-1	12/06/18	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(20)
Land Treatment Unit Wells	MW-1	08/12/19	--	4.6	0.054	9.5	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	10	--	ND(10)
Land Treatment Unit Wells	MW-1	09/22/20	--	4.7	ND(0.2) UJ	ND(8)	ND(10)	--	ND(1)	ND(5)	--	ND(0.25)	9.4	--	ND(10) UJ
Land Treatment Unit Wells	MW-1	09/29/21	--	4.9	ND(0.2)	--	--	--	ND(1)	--	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-1	09/29/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	4.7J/ND(10)U*
Land Treatment Unit Wells	MW-2	09/13/18	--	2.6	0.14	--	--	--	ND(1)	ND(5)	--	--	8	ND(50)	ND(10)
Land Treatment Unit Wells	MW-2	12/06/18	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(20)
Land Treatment Unit Wells	MW-2	08/13/19	--	2.7	0.046	8.5	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	8.6	--	7.5
Land Treatment Unit Wells	MW-2	09/18/20	--	21	ND(0.2) UJ	8.6	ND(10) UJ	--	ND(1)	ND(5)	--	ND(0.25) UJ	9.4	--	ND(10)
Land Treatment Unit Wells	MW-2	09/17/21	--	3.6	ND(0.2)	--	--	--	ND(5)	--	--	--	--	--	ND(10) UJ
Land Treatment Unit Wells	MW-2	09/29/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Land Treatment Unit Wells	MW-4	09/13/18	--	5.9	0.22	--	--	--	ND(1)	ND(5)	--	--	14	0.91	ND(10)
Land Treatment Unit Wells	MW-4	12/06/18	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(20)
Land Treatment Unit Wells	MW-4	08/13/19	--	5.6	ND(0.2)	8.1	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	13	--	ND(10)
Land Treatment Unit Wells	MW-4	09/18/20	--	120	ND(0.2)	ND(8)	ND(10) UJ	--	ND(1) UJ	ND(5)	--	ND(0.25)	16	--	ND(10)
Land Treatment Unit Wells	MW-4	09/17/21	--	30	ND(0.2)	--	--	--	ND(5)	--	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-4	09/30/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Land Treatment Unit Wells	MW-5	09/17/18	--	4.5	0.096	--	--	--	ND(1)	ND(5)	--	--	8.2	ND(50)	ND(10)
Land Treatment Unit Wells	MW-5	12/06/18	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(20)
Land Treatment Unit Wells	MW-5	08/14/19	--	5.9	ND(0.2)	8	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	9	--	ND(10)
Land Treatment Unit Wells	MW-5	09/21/20	--	13	ND(0.2)	ND(8)	ND(10)	--	ND(1)	ND(5)	--	ND(0.25)	9	--	ND(10) UJ
Land Treatment Unit Wells	MW-5	09/29/21	--	4.1	ND(0.2)	--	--	--	ND(1)	--	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-5	09/29/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Land Treatment Unit Wells	OW-67	09/17/21	180000	8000	ND(0.2)	--	110 J	4600	2.8 J	ND(25)	2300000	--	--	ND(250)	ND(50)
Land Treatment Unit Wells	OW-67	12/23/21	--	9100	ND(0.2)	--	130	--	ND(10)	--	--	--	69	ND(250)	ND(50)
Land Treatment Unit Wells	OW-67	06/16/22	--	--	ND(0.2)	--	140 J-	--	ND(10)	ND(25)	--	--	--	42 J	35 J+
Land Treatment Unit Wells	OW-67	09/20/22	--	--	ND(1)	--	130	--	1.6	--	--	--	--	30 J	11
Land Treatment Unit Wells	OW-67	12/28/22	--	--	ND(0.2)	--	120 J+	--	6.7 J-	ND(5)	--	--	--	16 J	7.3J/ND(10)U*
Land Treatment Unit Wells	OW-68	09/17/21	130000	11000	ND(0.2)	--	170 J	15000	7.6	ND(25)	2500000	--	--	ND(250)	ND(50)
Land Treatment Unit Wells	OW-68	12/23/21	--	6500	ND(0.2)	--	190	--	4.4 J	--	--	--	8.3	ND(250)	ND(50)

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Land Treatment Unit Wells	OW-68	06/16/22	--	ND(20)	20 J	250	ND(10)	--	ND(10)	--	ND(30)	93	--	--	18
Land Treatment Unit Wells	OW-68	09/20/22	--	ND(1)	18	260	1.1 J	--	4.3	--	9.2	61	--	--	20
Land Treatment Unit Wells	OW-68	12/28/22	--	ND(5)	19	430	ND(2)	--	ND(2)	--	6 J	86 J+	--	--	13
Land Treatment Unit Wells	SMW-2	09/18/18	--	--	5.6	30	--	--	ND(2)	--	26	--	ND(6)	760	ND(2.5)
Land Treatment Unit Wells	SMW-2	08/22/19	850	ND(5)	2.6	23	0.39	1300	ND(2)	--	47	ND(6)	ND(6)	520	0.59
Land Treatment Unit Wells	SMW-2	09/19/20	700	ND(5)	2.3 J	21	ND(2)	1300	ND(2)	--	20 J	ND(6)	ND(6)	390	0.27J/ND(2.5)U*
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	2.6	17	--	--	ND(2)	--	ND(6)	4.2 J	ND(5)	180	0.16 J
Land Treatment Unit Wells	SMW-2	09/30/22	--	ND(1)	1.9	26	ND(2)	--	ND(2)	--	22 J+	13	--	--	0.64
Land Treatment Unit Wells	SMW-4	09/12/18	--	ND(1)	3.1	27	ND(2)	--	ND(2)	--	17	--	ND(6)	710	0.88
Land Treatment Unit Wells	SMW-4	12/06/18	--	ND(1)	2.9	32	ND(3)	--	ND(2)	--	11	19	--	--	1
Land Treatment Unit Wells	SMW-4	08/13/19	900	ND(1)	3.4	23	ND(2)	1600	ND(2)	--	3.4	9.2	ND(6)	410	0.37
Land Treatment Unit Wells	SMW-4	09/20/20	3700	ND(1)	2.6	49	ND(2)	1700	ND(2)	--	15	8.7	ND(6)	1700 J+	1.9
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	3.2	27	--	--	ND(2)	--	6.7	6.3	0.5 J	680	0.6
Land Treatment Unit Wells	SMW-4	09/29/22	--	ND(1)	3	23	ND(2)	--	ND(2)	--	4J/ND(6)U*	72	--	--	0.36 J
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	6.7	5700	--	--	ND(2)	--	ND(6)	--	0.8 J	9100	1 J
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	ND(1)	5.4	5100	ND(2)	--	ND(2)	--	5.3 J	--	--	--	2.1
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	3 J	72	--	--	ND(2)	--	ND(6)	--	2.6 J+	710	0.51 J
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	ND(5)	2.1 J	86	ND(2)	--	ND(2)	--	ND(6)	6 J	--	--	1.2 J
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	2.9	600	--	--	ND(2)	--	ND(6)	--	2.7	2200	1.7 J
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	ND(1)	4.5	980	ND(2)	--	ND(2)	--	12	10	--	--	7.5
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	7.1	8900	--	--	ND(2)	--	ND(6)	--	3	11000	1.1
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	ND(1)	6.1	8000	ND(2)	--	ND(2)	--	5.9 J	5.8 J	--	--	8.2
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	14	4800	--	--	ND(2)	--	ND(6)	--	ND(5)	5500	0.47 J
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	ND(5)	15	4200	ND(2)	--	ND(2)	--	ND(6)	6.5	--	--	2 J
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	ND(1)	13	3900	ND(2)	--	ND(2)	--	ND(6)	4.9 J	--	--	1.2
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	1.4	280	--	--	ND(2)	--	3.3 J	--	14	2000	2.7
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	ND(1)	7	3600	2.5	--	ND(2)	--	31	19	--	--	40
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	0.49 J	9.3	6300	ND(2)	--	ND(2)	--	62	12 J+	--	49000	52
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	5.3	340	--	--	ND(2)	--	ND(6)	--	1.3	880	0.5 J
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	ND(1)	4.5	420	ND(2)	--	ND(2)	--	4.1 J	3.7 J	--	--	2.1
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	7.1	1500	--	--	ND(2)	--	ND(6)	--	1.1	2900	0.88
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	ND(1)	7	1600	ND(2)	--	ND(2)	--	4.2 J	7.2	--	--	4.3
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	ND(1)	6.5	2000	ND(2)	--	ND(2)	--	2.8 J	5.1 J	--	--	5.2
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	ND(1)	7.2	2000	ND(2)	--	ND(2)	--	ND(6)	9.7	--	--	2.4
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	ND(1)	4.2	2700	ND(2)	--	ND(2)	--	ND(6)	9.7 JB	--	--	1.8
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	3.5	910	--	--	ND(2)	--	ND(6)	--	0.8 J+	770	1.9
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	ND(1)	3 J	760	ND(2)	--	ND(2)	--	ND(6)	12	--	--	4.7
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	3.5	310	--	--	ND(2)	--	ND(6)	--	1.3	1900	0.36 J
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	ND(1)	3.1 J	330	ND(2)	--	ND(2)	--	3.7 J	8	--	--	5.5
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	ND(5)	86	--	--	ND(2)	--	ND(6)	--	3.5J/ND(5)U*	130	ND(2.5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	ND(5)	1.5 J	73	ND(10)	--	ND(10)	--	ND(30)	15 J	--	--	0.93 J
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	ND(5)	1 J	140 J	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	2.5
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	ND(1)	1.1	180	ND(2)	--	ND(2)	--	ND(6)	11 J	--	--	3.2
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	ND(5) UJ	ND(5)	87 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	1.1 J
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	1.7	140	--	--	ND(2)	--	ND(6)	--	4.6 JB	2200	2.5
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	ND(1)	2.5	170	ND(2)	--	ND(2)	--	ND(6)	5.7 J	--	--	4.6
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	ND(1)	2.5	200	ND(2)	--	ND(2)	--	2.1 J	ND(6)	--	--	5.7
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	ND(1)	4	240	ND(2)	--	ND(2)	--	ND(6)	12	--	--	11
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	ND(1) UJ	3.4	190 J+	0.89 J	--	ND(2)	--	2.8 J+	3.8 J	--	--	7.1
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	1	240 J	--	--	ND(2)	--	ND(6)	--	3.6 J+	250	ND(2.5)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	ND(1)	1.1	210	ND(2)	--	ND(2)	--	ND(6)	5.9 J	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	ND(1)	0.96 J	260	ND(2)	--	ND(2)	--	ND(6)	7	--	--	0.53
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	ND(1)	0.94 J	300	ND(2)	--	ND(2)	--	ND(6)	22	--	--	0.62
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	ND(1) UJ	1.3 J	310 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.46 J
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	0.63 J	45 J	--	--	ND(2)	--	ND(6)	--	2.4 J+	350	0.32 J
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	ND(1)	1.4	160	ND(2)	--	ND(2)	--	2.7 J	4.1 J	--	--	3.7

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
	Cleanup Levels		NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Land Treatment Unit Wells	OW-68	06/16/22	--	--	ND(0.2)	--	180 J-	--	16 J	ND(25)	--	--	--	24 J	39 J+
Land Treatment Unit Wells	OW-68	09/20/22	--	--	0.25	--	170	--	8	5.9	--	--	--	31 J	13
Land Treatment Unit Wells	OW-68	12/28/22	--	--	ND(0.2)	--	200 J+	--	6.5 J-	ND(5)	--	--	--	45 J	45 JB
Land Treatment Unit Wells	SMW-2	09/18/18	--	340	0.06	--	--	--	ND(5)	7.3	--	--	--	91	6.5
Land Treatment Unit Wells	SMW-2	08/22/19	--	370	0.094	ND(8)	47	--	ND(5)	5.1	--	ND(2.5)	92	--	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	--	340	ND(0.2) UJ	ND(8)	41 J	--	ND(5)	5.3	--	ND(1.2) UJ	85	--	ND(10)
Land Treatment Unit Wells	SMW-2	09/30/21	--	380	--	--	38	--	1.4	--	--	--	--	3.4 J	ND(10)
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	ND(0.2)	--	42	--	ND(1)	5.7	--	--	--	ND(50)	ND(10)
Land Treatment Unit Wells	SMW-4	09/12/18	--	22	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	30	49	5.8
Land Treatment Unit Wells	SMW-4	12/06/18	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	50	ND(20)
Land Treatment Unit Wells	SMW-4	08/13/19	--	8.6	0.054	10	4.1	--	ND(1)	ND(5)	--	ND(0.5)	30	--	5.8
Land Treatment Unit Wells	SMW-4	09/20/20	--	42	ND(0.2)	9.1	19 J+	--	ND(1)	ND(5)	--	ND(0.25)	24	--	8.8 J
Land Treatment Unit Wells	SMW-4	09/29/21	--	14	ND(0.2)	--	ND(10)	--	ND(1)	--	--	--	--	56	ND(10)
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	ND(1) UJ	--	ND(10)	--	ND(1)	ND(5)	--	--	--	60	ND(10)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	3200	ND(0.2)	--	--	--	0.4 J	ND(5)	--	--	1.7 J	--	ND(10) UJ
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	ND(0.2)	--	--	--	0.75 J	ND(5)	--	--	--	5.4 J	11
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	230	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	87	--	8.8 J
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	ND(0.2)	--	13 J-	--	ND(5)	--	--	--	--	7.5 J	11
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	2600	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	24	--	30 J
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	ND(0.2)	--	16	--	1.6	ND(5)	--	--	--	24 J	23
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	4900	ND(0.2)	--	--	--	0.45 J	ND(5)	--	--	0.43 J	--	7.1 J
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	ND(0.2)	--	24	--	ND(5)	ND(5)	--	--	--	18 J	14
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	5300	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	9.2	--	ND(10)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	ND(0.2)	--	26	--	ND(5)	ND(5)	--	--	--	4.9 J	40
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	ND(0.2)	--	22 J-	--	0.47 J+	ND(5)	--	--	--	ND(50)	20
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	55	ND(0.2)	--	--	--	0.51 J	ND(5)	--	--	1.4	--	55
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	0.98	--	32 J-	--	5.8 J+	ND(5)	--	--	--	53	370
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	1700	0.92	--	39	--	9.2	ND(5)	--	--	--	100	330
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	3400	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	5.1	--	ND(10)
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	ND(0.2)	--	6.1 J	--	ND(1)	ND(5)	--	--	--	5.6 J	44
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	2400	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	3.8	--	ND(10)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	ND(0.2)	--	9.8 J	--	0.87 J	ND(5)	--	--	--	11 J	7.8 J
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	ND(0.2)	--	7.9 J-	--	0.75 J+	ND(5)	--	--	--	11 J	4.4 J
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	ND(0.2)	--	7.4 J	--	0.46 J	ND(5)	--	--	--	8.9 J	28 JB
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	ND(0.2)	--	8.4 J	--	1.1	ND(5)	--	--	--	3.7 J	6.6 J
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	4700	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	9.2	--	ND(10)
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	ND(1)	--	31 J-	--	1.9 J	ND(5)	--	--	--	6.7 J	7.6 J
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	2800	ND(0.2)	--	--	--	0.77 J	ND(5)	--	--	34	--	ND(10)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	ND(0.2)	--	29 J-	--	2.3 J	ND(5)	--	--	--	16 J	10
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	14	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	19	--	ND(10)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	ND(0.2)	--	21 J-	--	6.2	ND(25)	--	--	--	ND(250)	ND(50)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	ND(0.2)	--	35 J+	--	ND(5)	ND(5)	--	--	--	8.7 J	6.8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	ND(0.2)	--	29	--	1.1	ND(5)	--	--	--	15 J	4J/ND(10)U*
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	ND(0.2)	--	34	--	ND(5)	5.7	--	--	--	6.3 J	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	130	ND(0.2)	--	--	--	0.92 J	ND(5)	--	--	140	--	9.5 J
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	ND(0.2)	--	6.7 J-	--	2	ND(5)	--	--	--	12 J	16
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	ND(0.2)	--	9 J+	--	1.3	ND(5)	--	--	--	12 J	18 JB
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	ND(0.2)	--	ND(10)	--	2.6	ND(5)	--	--	--	34 J	24 JB
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	ND(0.2)	--	8.9 J	--	6.3 J+	ND(5)	--	--	--	16 J	20 J+
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	5800	ND(0.2)	--	--	--	0.62 J	ND(5)	--	--	20	--	ND(10)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	ND(1)	--	18 J-	--	0.69 J	1.9 J	--	--	--	4.4 J	ND(10)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	ND(0.2)	--	24 J+	--	0.75 J	ND(5)	--	--	--	7.3 J	13
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	ND(0.2)	--	15	--	ND(1)	2.6 J	--	--	--	11 J	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	ND(0.2)	--	19	--	ND(5)	11	--	--	--	7.8 J	10 J+
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	38	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	37	--	ND(10)
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	ND(0.2)	--	17 J-	--	1.3	ND(5)	--	--	--	14 J	8.2 J

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	ND(1)	2.8	420	0.9 J	--	ND(2)	--	18	12	--	--	14
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	ND(1)	1.2	160	ND(2)	--	ND(2)	--	ND(6)	9.2	--	--	3.6
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	ND(5)	ND(5)	150	0.81J/ND(2)U*	--	ND(2)	--	5.4 J	ND(6)	--	--	3.9
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	0.72 J	130	--	--	ND(2)	--	ND(6)	--	2.3 J+	620	0.48 J
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	ND(1)	2.1	300	ND(2)	--	ND(2)	--	10	8.5	--	--	8.4
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	ND(1)	2.7	450	2.2	--	ND(2)	--	14	7.7	--	--	15
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	ND(1)	2.1	310	ND(2)	--	ND(2)	--	14	9.4	--	--	9.9
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	ND(1) UJ	5.3	730 J+	5	--	ND(2)	--	30 J+	18	--	--	29
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	2.8 J	56	--	--	ND(2)	--	ND(6)	--	2.1 J	290	0.34 J
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	ND(1)	2.8	69	ND(1)	--	ND(0.5)	--	1.4	0.72 J	--	--	0.95
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	ND(1)	2.6	74	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.97
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	ND(1)	3.1	90	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	2
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	ND(1)	3.3	110 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	3
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	0.59 J	72	--	--	ND(2)	--	ND(6)	--	3.1 J	41 J+	0.064 J
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	ND(1)	3	170	ND(1)	--	ND(0.5)	--	0.74 J	7.7	--	--	3.7
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	0.52 J	3500	--	--	ND(2)	--	ND(6)	--	ND(1)	6900	0.54
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	ND(5)	7.2	5200	ND(2)	--	ND(2)	--	17	16	--	--	22
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	ND(5)	29	21000	6.1	--	ND(2)	--	57	53	--	--	120
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	0.93 J	45	--	--	ND(6)	--	ND(6)	--	1.9	390	0.53
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	ND(1)	4.7	690	ND(2)	--	ND(2)	--	11	11	--	--	11
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	ND(1)	7	660	ND(2)	--	ND(2)	--	11	9.7	--	--	14
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	ND(1)	7	580	ND(2)	--	ND(2)	--	6.3	9.4	--	--	9.1
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	ND(1)	11	95	ND(2)	--	ND(2)	--	ND(6)	11 JB	--	--	0.98
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	0.88 J	86	--	--	ND(2)	--	ND(6)	--	ND(10)	950	0.83 J
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	ND(5)	1.3 J	120	ND(2)	--	ND(2)	--	ND(6)	3.9 J	--	--	2.4 J
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	ND(5)	2.4 J	290	ND(2)	--	ND(2)	--	4.8 J	5.7 J	--	--	12
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	ND(1)	1.1	160	ND(2)	--	ND(2)	--	ND(6)	12	--	--	3.4
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	ND(5) UJ	ND(5)	100 J+	1 J	--	ND(2)	--	3.4 J+	ND(6)	--	--	1.9 J
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	2.4	65	--	--	ND(2)	--	ND(6)	--	ND(1)	14 J	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	ND(1)	2.1	63	ND(1)	--	ND(0.5)	--	1.3	ND(1)	--	--	0.066 J
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	ND(1)	2.5 J	69	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.11J/ND(0.5)U*
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	ND(1)	1.7	75	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	ND(1)	1.6	79 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	2.9 J	50	--	--	ND(2)	--	ND(6)	--	ND(5)	22 J+	ND(0.5)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	ND(1)	2.4	59	ND(1)	--	ND(0.5)	--	9.6 J	0.28 J	--	--	0.25 J
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	4.6 J	120	--	--	ND(10)	--	ND(30)	--	ND(20)	4500	2.8 J
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	ND(10)	2.8 J	60	ND(10)	--	ND(5)	--	ND(10)	2.1 J	--	--	1.5 J
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	ND(20)	3.4 J	77	ND(10)	--	ND(10)	--	ND(30)	31	--	--	2.2J/ND(10)U*
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	ND(1)	3	85	ND(10)	--	ND(10)	--	ND(30)	94	--	--	2 J
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	ND(20)	ND(20)	83	ND(10)	--	ND(10)	--	ND(30)	95 J+	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	14	99	--	--	ND(2)	--	5.9 J	--	3.8	4800	5.6
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	ND(5) UJ	17	280	ND(2)	--	ND(2)	--	13	7.8	--	--	19
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	ND(1)	19	300	ND(2)	--	ND(2)	--	19	8.1	--	--	21
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	ND(1)	19	330	ND(2)	--	ND(2)	--	25	ND(6)	--	--	24
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	ND(1)	13	83	ND(2)	--	ND(2)	--	3.8 J	5.4 J+	--	--	4
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	1.6	32	--	--	ND(2)	--	ND(6)	--	0.66 J	ND(50)	ND(0.5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	ND(1)	1.2	79	ND(2)	--	ND(2)	--	ND(6)	4.1 J	--	--	1.1
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	ND(1)	0.86 J	80	ND(2)	--	ND(2)	--	2.1 J	ND(6)	--	--	1.4
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	ND(1)	0.82 J	68	ND(2)	--	ND(2)	--	ND(6)	13 J	--	--	0.73
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	ND(1)	1.1	81	ND(2)	--	ND(2)	--	ND(6)	16 JB	--	--	1.1
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	3.5	13	--	--	ND(2)	--	ND(6)	--	1.5 J	88 J	0.092 J
Production Wells	PW-3	03/09/22	--	ND(1)	3.8	11	ND(1)	--	ND(0.5)	--	ND(1)	ND(1)	--	--	ND(0.5)
Production Wells	PW-3	06/14/22	--	ND(1)	4	12 J+	ND(2)	--	ND(2)	--	ND(6)	3.6 J	--	--	0.21 J
Production Wells	PW-3	09/08/22	--	ND(1)	3.8	10 JB	ND(2)	--	ND(2)	--	ND(6)	13	--	--	0.07J/ND(0.5)U*
Production Wells	PW-3	12/06/22	--	ND(1)	3.5	14	ND(2)	--	ND(2)	--	ND(6)	13 JB	--	--	ND(0.5)
Production Wells	PW-4	12/28/21	--	--	1.4	14	--	--	ND(2)	--	ND(6)	--	ND(1)	170	ND(0.5)
Production Wells	PW-4	03/09/22	--	ND(1)	1.9	12	ND(1)	--	ND(0.5)	--	ND(1)	ND(1)	--	--	ND(0.5)
Production Wells	PW-4	06/14/22	--	ND(1)	2.9 J	14 J+	ND(2)	--	ND(2)	--	ND(6)	3.6 J	--	--	ND(0.5)
Production Wells	PW-4	09/08/22	--	ND(1)	2.8	13 JB	ND(2)	--	ND(2)	--	ND(6)	10	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	0.9 J	230 J	--	--	--	--	ND(6)	--	1.7 J+	160	0.44 J
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	ND(1)	0.77 J	210	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.52 JB
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	ND(1)	0.81 J	200	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.4 J

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
	Cleanup Levels		NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	ND(0.2)	--	30 J+	--	2.7	ND(5)	--	--	--	44 J	46
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	ND(0.2)	--	14	--	0.53 J	ND(5)	--	--	--	21 J	ND(10)
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	ND(0.2)	--	24 J+	--	ND(5)	2.1 J	--	--	--	15 J	9.6 J
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	52	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	50	--	ND(10)
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	0.13 J	--	12 J-	--	1.8	ND(5)	--	--	--	25 J	20
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	ND(0.2)	--	16 J-	--	2.2 J+	ND(5)	--	--	--	36 J	34
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	ND(0.2)	--	9.9 J	--	2.6	ND(5)	--	--	--	32 J	7.1J/ND(10)U*
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	ND(0.2)	--	41	--	6.7 J+	ND(5)	--	--	--	57	47 J+
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	61	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	50	--	ND(10)
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	0.098J/ND(0.2)U*	--	4.7	--	0.41 J	ND(0.5)	--	--	--	11	4.7 J
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	ND(0.2)	--	ND(10)	--	0.52 J	ND(5)	--	--	--	8.5 J	11 J+
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	--	0.76 J	ND(5)	--	--	--	12 J	ND(10)
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	ND(0.2)	--	ND(10)	--	2 JB	ND(5)	--	--	--	15 J	12 JB
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	250	ND(0.2)	--	--	--	1.7	ND(5)	--	--	33	--	6.5 J+
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	0.46 JB	--	4.4	--	0.72 J	0.41 J	--	--	--	2.3	8.6 J
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	3400	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	0.67	--	ND(10)
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	ND(1)	--	18	--	4.5 J	ND(5)	--	--	--	58	39
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	0.31	--	66 J-	--	18 J+	ND(5)	--	--	--	160	150
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	480	ND(0.2)	--	--	--	1.8	ND(5)	--	--	25	--	ND(10)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	ND(0.2)	--	12	--	3.7	ND(5)	--	--	--	27 J	26
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	ND(0.2)	--	11 J-	--	3.5 J+	ND(5)	--	--	--	26 J	74
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	ND(0.2)	--	ND(10)	--	2.6	ND(5)	--	--	--	23 J	13 JB
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	0.12 J+	--	ND(10)	--	1.6	2.1 J	--	--	--	ND(50)	ND(10)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	26	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	41	--	ND(10)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	0.099 J	--	9.4 J-	--	ND(5)	ND(5)	--	--	--	16 J	7.9 J
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	ND(0.2)	--	9.3 J-	--	ND(5)	ND(5)	--	--	--	27 J	24
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	ND(0.2)	--	5.9 J	--	0.88 J	ND(5)	--	--	--	23 J	9.6J/ND(10)U*
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	ND(0.2)	--	11	--	5.2 J+	8.2	--	--	--	16 J	5.1 J+
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	19	ND(0.2)	--	--	--	43	ND(5)	--	--	13	--	ND(10)
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	0.11 J+	--	ND(1)	--	37	ND(0.5)	--	--	--	34	ND(10)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	ND(0.2)	--	ND(10) UJ	--	33	ND(5)	--	--	--	28 J	16 J+
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	--	35	ND(5)	--	--	--	24 J	ND(10)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	ND(0.2)	--	ND(10)	--	27	ND(5)	--	--	--	15 J	4.9J/ND(10)U*
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	52	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	8.9	--	ND(10)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	0.092 J+	--	0.63 J	--	0.99 J	ND(0.5)	--	--	--	60	ND(10)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	14000	ND(0.2)	--	--	--	ND(20)	ND(25)	--	--	290	--	ND(50)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	ND(0.2)	--	8.2 J	--	ND(10)	ND(5)	--	--	--	ND(10)	ND(100)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	ND(0.2)	--	ND(50) UJ	--	ND(20)	ND(25)	--	--	--	ND(250)	21 J+
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	ND(0.2)	--	ND(50) UJ	--	1.8	31	--	--	--	ND(50)	ND(50)
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	0.097J/ND(0.2)U*	--	ND(50)	--	ND(20)	ND(25)	--	--	--	ND(250)	ND(50)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	88	ND(0.2)	--	--	--	14	ND(5)	--	--	150	--	22
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	ND(0.2)	--	4.2 J-	--	16	ND(5)	--	--	--	170	67
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	ND(0.2)	--	8.1 J+	--	15	ND(5)	--	--	--	210	99
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	--	14	ND(5)	--	--	--	240	68
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	0.11J/ND(0.2)U*	--	ND(10)	--	14	ND(5)	--	--	--	150	14 JB
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	580	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	7.9	--	ND(10)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	4.7 J	ND(10)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	0.13 J	--	ND(10) UJ	--	0.45 J+	ND(5)	--	--	--	4 J	4.8 J
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	0.1J/ND(0.2)U*	--	ND(10)	--	0.4 J	ND(5)	--	--	--	4.3 J	7.2J/ND(10)U*
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	0.17 J+	--	ND(10)	--	1.9 J	ND(1)	--	--	--	4 J	ND(10)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	15	0.16 J	--	--	--	0.96 J	--	--	--	1.5	--	9.1 J
Production Wells	PW-3	03/09/22	--	--	ND(0.2)	--	0.97 J	--	1.2	ND(0.5)	--	--	--	3.8	8 J
Production Wells	PW-3	06/14/22	--	--	ND(0.2)	--	--	--	1.3	ND(5) UJ	--	--	--	ND(50)	16
Production Wells	PW-3	09/08/22	--	--	0.18J/ND(0.2)U*	--	ND(10)	--	0.77 J	1.9 J	--	--	--	ND(50)	8.7 J
Production Wells	PW-3	12/06/22	--	--	0.1 J+	--	--	--	1.4	3.3 J	--	--	--	ND(50)	34
Production Wells	PW-4	12/28/21	--	5.1	ND(0.2)	--	--	--	0.93 J	--	--	--	1.5	--	13
Production Wells	PW-4	03/09/22	--	--	0.1J/ND(0.2)U*	--	ND(1)	--	1.3	ND(0.5)	--	--	--	1.2	14
Production Wells	PW-4	06/14/22	--	--	ND(0.2)	--	ND(10)	--	ND(5)	ND(5) UJ	--	--	--	ND(50)	ND(10)
Production Wells	PW-4	09/08/22	--	--	0.18J/ND(0.2)U*	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	500	ND(0.2)	--	--	--	0.42 J	--	--	--	19	--	ND(10)
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	ND(0.2)	--	22 J-	--	ND(5)	ND(5)	--	--	--	19 J	7.5 J
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	ND(1)	--	23 J+	--	ND(1)	ND(5)	--	--	--	14 J	6.6J/ND(10)U*

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	ND(1)	0.71 J	220	ND(2)	--	ND(2)	--	ND(6)	8.5	--	--	0.67
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	ND(1)	0.62 J	180	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.53
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	ND(1)	190	--	--	51	--	3900	--	ND(1)	970000	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	ND(5)	1.2 J	170	5.2	--	13	--	7000	100	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	ND(5)	1.3 J	140 J+	4.5	--	ND(2)	--	5300	21	--	--	0.48 J
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	ND(1)	ND(1)	240	1.4 J	--	15	--	2400	27	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	ND(1)	0.79 J	80	1.2 J	--	ND(2)	--	1700	100	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	ND(1)	88	--	--	16	--	500 J	--	ND(1)	330000	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(5)	0.64 J	68	ND(2)	--	5.5	--	320	6.9	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(5)	0.68 J	66	ND(2)	--	4.7	--	320	6.1	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	ND(5)	0.97 J	67 J+	ND(2)	--	ND(2)	--	1000	12	--	--	1.7 J
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	ND(1)	0.74 J	110	ND(2)	--	5.4	--	810	11	--	--	0.54 JB
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	ND(1)	0.59 J	98	ND(2)	--	ND(2)	--	330	120	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	2.1	4000 J	--	--	--	--	ND(6)	--	0.71 J+	2300	0.52
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	ND(1)	5	5100	ND(2)	--	ND(2)	--	ND(6)	3.6 J	--	--	3.3
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	NAPIS-2	2.7	4400	ND(2)	--	ND(2)	--	ND(6)	--	--	--	1.5
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	ND(1)	3.1	5200	ND(2)	--	ND(2)	--	ND(6)	11	--	--	2.6
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	ND(1)	2	3200	0.6J/ND(2)U*	--	ND(2)	--	ND(6)	ND(6)	--	--	2
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	2.9	2400 J	--	--	--	--	ND(6)	--	1.3 J+	1300	0.31 J
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	ND(1)	4.6	3000	ND(2)	--	ND(2)	--	ND(6)	3.8 J	--	--	1.3 JB
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	ND(1)	3.9	2900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	1.3
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	ND(1)	4.1	2300	ND(2)	--	ND(2)	--	ND(6)	13	--	--	0.75
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	ND(1)	3	1600	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.43 J
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	7.7	1000	--	--	--	--	ND(6)	--	3.2J/ND(5)U*	3000	8.6
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	ND(5)	5.4	970	ND(2)	--	ND(2)	--	ND(6)	10	--	--	5.5
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	ND(1)	6	1100	ND(2)	--	ND(2)	--	2.2 J	10	--	--	7.3
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	ND(1)	5	930	ND(2)	--	ND(2)	--	2.3 J	19	--	--	6
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	ND(5)	4.4 J	860	ND(2)	--	ND(2)	--	ND(6)	4.8 J	--	--	4.6
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	4.7 J	68	--	--	ND(2)	--	ND(6)	--	ND(10)	2000	1.4 J
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	ND(5)	5.1	99	ND(2)	--	ND(2)	--	2.8 J	4.3 J	--	--	2 J
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	ND(10)	5.9 J	92 J+	ND(10)	--	ND(10)	--	ND(30)	ND(30)	--	--	1.6 J
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	ND(1)	4.8	81	ND(2)	--	ND(2)	--	ND(6)	12	--	--	1.8
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	ND(5)	4.8 J	66	ND(2)	--	ND(2)	--	ND(6)	8.7 J+	--	--	1.3 J
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	1.3 J	41	--	--	ND(2)	--	6.1	--	2.2 J	880 J+	ND(2.5)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	ND(1)	6.1	1300	2.6	--	ND(2)	--	80	19	--	--	22
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	ND(10)	7.7 J	1400	1.1 J	--	ND(2)	--	59	20	--	--	23
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	ND(1)	2.9	340	1.2 J	--	2	--	26	7.6	--	--	6.9
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	ND(1)	1.5	36	ND(2)	--	ND(2)	--	ND(6)	5.4 J+	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	2.5	89 J	--	--	ND(2)	--	ND(6)	--	0.76 J+	220	ND(2.5)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	ND(1)	2.6	110	ND(2)	--	ND(2)	--	ND(6)	3.7 J	--	--	1 J
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	ND(1)	2.6	99	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.63
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	ND(1)	2.4	90	ND(2)	--	2.4	--	ND(6)	ND(6)	--	--	0.88
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	ND(5)	1.8 J	98	ND(2)	--	ND(2)	--	2.3 J	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	3.2	3700 J	--	--	ND(2)	--	ND(6)	--	1.2 J+	5600	0.96
Tank Farm Wells	OW-57	03/10/22	--	ND(1)	3.1	3400	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.49 J
Tank Farm Wells	OW-57	06/29/22	--	ND(5)	47	31000	29 J	--	ND(40)	--	250	170	--	--	320
Tank Farm Wells	OW-57	09/15/22	--	ND(1)	36	24000	27	--	ND(10)	--	210	120	--	--	280
Tank Farm Wells	OW-57	12/07/22	--	ND(1) UJ	20	14000	8.8	--	ND(2)	--	81	58 J-	--	--	110
Tank Farm Wells	OW-58	12/14/21	--	--	3.9	5000 J	--	--	ND(2)	--	ND(6)	--	0.77 J+	11000	0.29 J
Tank Farm Wells	OW-58	03/10/22	--	ND(1)	3.8	5200	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.49 J
Tank Farm Wells	OW-58	06/29/22	--	ND(1)	3.9	5500	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.39 J
Tank Farm Wells	OW-58	09/20/22	--	ND(1)	3.2	5000	ND(2)	--	2	--	ND(6)	ND(6)	--	--	0.2 J
Tank Farm Wells	OW-58	12/14/22	--	0.53 J	2.7	4900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-58A	12/14/21	--	--	4.3	960 J	--	--	ND(2)	--	ND(6)	--	0.71 J+	5300	1.8
Tank Farm Wells	OW-58A	03/10/22	--	ND(1)	4.3	900	ND(2)	--	ND(2)	--	ND(6)	2.7 J	--	--	1.4
Tank Farm Wells	OW-58A	06/29/22	--	ND(1)	4.5	1200	ND(2)	--	ND(2)	--	3.5 J	6.5	--	--	5.1
Tank Farm Wells	OW-58A	09/20/22	--	ND(1)	4.7	1100	ND(2)	--	ND(2)	--	4.5 J	ND(6)	--	--	12
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	8.6	4300	--	--	ND(2)	--	ND(6)	--	ND(1)	6600	0.094 J
Tank Farm Wells	OW-63	03/10/22	--	ND(1)	8.2	4300	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.081 J
Tank Farm Wells	OW-63	06/08/22	--	ND(1)	8.8	4700	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.076 J
Tank Farm Wells	OW-63	09/20/22	--	ND(1)	7.2	4400	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.087 J
Tank Farm Wells	OW-63	12/07/22	--	ND(1) UJ	6.4	4900	ND(2)	--	ND(2)	--	ND(6)	13 JB	--	--	ND(0.5)
Tank Farm Wells	OW-64	12/29/21	--	--	3.1	350 J+	--	--	ND(2)	--	2.7 J	--	2.5 J	940	0.69
Tank Farm Wells	OW-64	03/24/22	--	ND(1)	2.3	320	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.65
Tank Farm Wells	OW-64	06/08/22	--	ND(1)	2.6 J	290	ND(2)	--	ND(2)	--	3.3 J	ND(6)	--	--	0.77
Tank Farm Wells	OW-64	09/20/22	--	ND(1)	2.4	240	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.39 J
Tank Farm Wells	OW-64	12/07/22	--	ND(1) UJ	2.2	300	ND(2)	--	ND(2)	--	ND(6)	ND(6) UJ	--	--	0.36 J
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
Cleanup Levels			NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	ND(0.2)	--	20	--	0.8 J	ND(5)	--	--	--	19 J	8.8J/ND(10)U*
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	ND(0.2)	--	23	--	2.6	ND(5)	--	--	--	23 J	4.6 J-
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	12000	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	ND(0.5)	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	ND(1)	--	7300	--	ND(5)	ND(5)	--	--	--	140	ND(10)
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	ND(0.2)	--	3300	--	ND(5)	ND(5) UJ	--	--	--	120	ND(10) UJ
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	0.23 JB	--	2400	--	ND(1)	ND(5)	--	--	--	76	220
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	0.13 J+	--	1400	--	1.1	ND(5)	--	--	--	55	220
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	15000	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	ND(0.5)	--	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(0.2)	--	830	--	ND(5)	ND(5)	--	--	--	67	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(0.2)	--	810	--	ND(5)	ND(5)	--	--	--	66	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	ND(0.2)	--	1100	--	ND(5)	ND(5) UJ	--	--	--	25 J	ND(10)
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	0.19J/ND(0.2)U*	--	990	--	ND(1)	ND(5)	--	--	--	32 J	120
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	0.14 J+	--	1000	--	ND(1)	ND(5)	--	--	--	77	26
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	1400	ND(0.2)	--	--	--	0.46 J	--	--	--	0.31 J	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	ND(0.2)	--	53 J-	--	0.62 J	ND(5)	--	--	--	11 J	16
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	ND(0.2)	--	64 J+	--	ND(1)	2 J	--	--	--	ND(50)	4.8J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	ND(0.2)	--	84	--	0.63 J	ND(5)	--	--	--	9.2 J	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	ND(0.2)	--	120	--	1	ND(5)	--	--	--	7.6 J	7.3 J-
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	1900	ND(0.2)	--	--	--	ND(1)	--	--	--	1.4	--	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	ND(0.2)	--	25 J-	--	0.62 J	ND(5)	--	--	--	6.8 J	8.3 J
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	ND(0.2)	--	25 J+	--	0.37 J	2.4 J	--	--	--	ND(50)	4.1J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	ND(0.2)	--	22	--	0.54 J	ND(5)	--	--	--	4.1 J	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	ND(0.2)	--	25	--	1.5	2.1 J	--	--	--	3.8 J	ND(10) UJ
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	1400	ND(0.2)	--	--	--	ND(5)	--	--	--	25	--	16
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	ND(0.2)	--	160 J-	--	ND(5)	ND(5)	--	--	--	29 J	19
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	ND(0.2)	--	180 J+	--	1.4	ND(5)	--	--	--	37 J	29
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	ND(0.2)	--	170	--	1.2	ND(5)	--	--	--	41 J	6.8J/ND(10)U*
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	ND(0.2)	--	180 J+	--	4.5 J	1.9 J	--	--	--	18 J	7.9 J
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	120	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	110	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	0.13 J	--	37 J-	--	2 J	ND(5)	--	--	--	12 J	6.4 J
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	ND(0.2)	--	37 J	--	ND(10)	ND(25)	--	--	--	ND(50)	ND(50)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	ND(0.2)	--	31	--	1.5	2.3 J	--	--	--	14 J	9.1J/ND(10)U*
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	ND(0.2)	--	44 J+	--	6.9 J-	ND(5)	--	--	--	9.4 J	11 JB
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	21	ND(0.2)	--	--	--	16	ND(5)	--	--	52	--	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	ND(0.2)	--	84 J-	--	23	ND(5)	--	--	--	84	64
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	ND(0.2)	--	77 J-	--	23	ND(5)	--	--	--	91	120 J+
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	0.48	--	23	--	18	ND(5)	--	--	--	42 J	18
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	ND(0.2)	--	ND(10)	--	16 J-	ND(5)	--	--	--	11 J	12 JB
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	7	ND(0.2)	--	--	--	5.5	ND(5)	--	--	36	--	ND(10)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	ND(0.2)	--	ND(10) UJ	--	5.7	ND(5)	--	--	--	34 J	15
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	ND(0.2)	--	ND(10)	--	4.6	ND(5)	--	--	--	38 J	14
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	0.25	--	ND(10)	--	5	ND(5)	--	--	--	33 J	11
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	ND(0.2)	--	ND(10)	--	9.3	2.2 J	--	--	--	28 J	ND(10)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	2000	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	0.25 J	--	ND(10)
Tank Farm Wells	OW-57	03/10/22	--	--	ND(0.2)	--	55 J-	--	0.59 J	ND(5)	--	--	--	3.6 J	ND(10)
Tank Farm Wells	OW-57	06/29/22	--	--	0.25	--	310 J+	--	78	ND(100)	--	--	--	430 J	590
Tank Farm Wells	OW-57	09/15/22	--	--	0.29	--	260	--	62	ND(25)	--	--	--	420	330
Tank Farm Wells	OW-57	12/07/22	--	--	0.31 JB	--	94	--	54	ND(5)	--	--	--	130	91
Tank Farm Wells	OW-58	12/14/21	--	1800	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	0.17 J	--	ND(10)
Tank Farm Wells	OW-58	03/10/22	--	--	ND(0.2)	--	51 J-	--	0.45 J	ND(5)	--	--	--	4.9 J	ND(10)
Tank Farm Wells	OW-58	06/29/22	--	--	ND(0.2)	--	58 J+	--	ND(1)	ND(5)	--	--	--	4.9 J	14
Tank Farm Wells	OW-58	09/20/22	--	--	ND(0.2)	--	50	--	ND(1)	ND(5)	--	--	--	4.5 J	ND(10)
Tank Farm Wells	OW-58	12/14/22	--	--	ND(0.2)	--	48	--	ND(1)	2 J	--	--	--	4.8 J	ND(10) UJ
Tank Farm Wells	OW-58A	12/14/21	--	1300	ND(0.2)	--	--	--	0.44 J	ND(5)	--	--	0.1 J	--	ND(10)
Tank Farm Wells	OW-58A	03/10/22	--	--	ND(0.2)	--	34 J-	--	0.44 J	ND(5)	--	--	--	ND(50)	ND(10)
Tank Farm Wells	OW-58A	06/29/22	--	--	ND(1)	--	40 J+	--	0.53 J	ND(5)	--	--	--	15 J	28
Tank Farm Wells	OW-58A	09/20/22	--	--	ND(0.2)	--	37	--	0.81 J	ND(5)	--	--	--	16 J	14
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	1000	ND(0.2)	--	--	--	0.39 J	ND(5)	--	--	ND(0.5)	--	ND(10)
Tank Farm Wells	OW-63	03/10/22	--	--	ND(0.2)	--	25 J-	--	ND(1)	ND(5)	--	--	--	2.6 J	ND(10)
Tank Farm Wells	OW-63	06/08/22	--	--	ND(0.2)	--	29	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Tank Farm Wells	OW-63	09/20/22	--	--	ND(0.2)	--	33	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Tank Farm Wells	OW-63	12/07/22	--	--	ND(0.2)	--	28	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Tank Farm Wells	OW-64	12/29/21	--	330	ND(0.2)	--	--	--	0.4 J	ND(5)	--	--	11	--	ND(10)
Tank Farm Wells	OW-64	03/24/22	--	--	ND(0.2)	--	ND(10) UJ	--	0.39 J	ND(5)	--	--	--	6.1 J	ND(10)
Tank Farm Wells	OW-64	06/08/22	--	--	ND(0.2)	--	--	--	ND(5)	ND(10)	--	--	--	8 J	5.7 J
Tank Farm Wells	OW-64	09/20/22	--	--	0.16 J	--	ND(10)	--	ND(1)	ND(5)	--	--	--	6.8 J	ND(10)
Tank Farm Wells	OW-64	12/07/22	--	--	ND(0.2)	--	ND(10)	--	1	ND(5)	--	--	--	5.8 J	ND(10)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Total (ug/L)	Antimony, Total (ug/L)	Arsenic, Total (ug/L)	Barium, Total (ug/L)	Beryllium, Total (ug/L)	Boron, Total (ug/L)	Cadmium, Total (ug/L)	Calcium, Total (ug/L)	Chromium, Total (ug/L)	Cobalt, Total (ug/L)	Copper, Total (ug/L)	Iron, Total (ug/L)	Lead, Total (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	50	5.98	790	13,822	15
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	--	--	ND(1)	37	ND(2)	--	ND(2)	--	4.1	--	ND(6)	290	0.77
Western Boundary Wells	BW-1C	08/14/19	100	ND(1)	ND(1)	19	ND(2)	1700	ND(2)	--	2.6	ND(6)	ND(6)	54	ND(0.5)
Western Boundary Wells	BW-1C	09/20/20	60 JB	ND(1)	ND(1)	17	ND(2)	1600	ND(2)	--	ND(6)	ND(6)	ND(6)	47 J-	ND(0.5)
Western Boundary Wells	BW-1C	09/29/21	--	--	ND(1)	18	--	--	ND(2)	--	ND(6)	--	ND(1)	40 J	ND(0.5)
Western Boundary Wells	BW-1C	09/28/22	--	ND(1)	0.15 J	18	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-2A	09/12/18	--	ND(1)	7.8	130	0.29	--	ND(2)	--	ND(6)	--	ND(6)	430	ND(0.5)
Western Boundary Wells	BW-2A	08/14/19	270	ND(1)	8.5	150	ND(2)	850	ND(2)	8600	ND(6)	ND(6)	ND(6)	490	0.12
Western Boundary Wells	BW-2A	09/20/20	610	ND(1)	9	150	ND(2)	800	ND(2)	--	2.6 J	8.8	ND(6)	740 J-	0.29 J
Western Boundary Wells	BW-2A	09/29/21	--	--	7.4	280	--	--	ND(2)	--	13	--	3	6100	3
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	--	ND(1)	0.77	37	ND(2)	--	ND(2)	--	ND(6)	--	ND(6)	240	ND(0.5)
Western Boundary Wells	BW-2B	08/14/19	4500	ND(1)	0.98	57	ND(2)	1900	ND(2)	--	2.7	ND(6)	ND(6)	1600	0.92
Western Boundary Wells	BW-2B	09/21/20	250	ND(1)	0.84 J	40	ND(2)	1800	ND(2)	--	ND(6)	ND(6)	ND(6)	280 J+	0.054 J
Western Boundary Wells	BW-2B	09/29/21	--	--	0.76 J	44	--	--	ND(2)	--	ND(6)	--	1	300	ND(0.5)
Western Boundary Wells	BW-2B	09/28/22	--	ND(1)	0.64 J	47	ND(2)	--	ND(2)	--	2.9 J	6.3 J+	--	--	ND(0.5)
Western Boundary Wells	BW-2C	09/18/18	--	--	ND(5)	50	--	--	ND(2)	--	6	--	ND(6)	2000	2.4
Western Boundary Wells	BW-2C	08/14/19	12000	ND(1)	2.3	86	0.32	1200	ND(2)	--	18	ND(6)	ND(6)	3900	4.4
Western Boundary Wells	BW-2C	09/22/20	94000 J+	ND(1)	5.1	550	3.3	1300	ND(2)	--	50	17	6.3	44000 J+	20
Western Boundary Wells	BW-2C	09/29/21	--	--	2	190	--	--	ND(2)	--	13	--	2.9	7300	5.3
Western Boundary Wells	BW-2C	09/28/22	--	ND(1)	1.1	39	ND(2)	--	ND(2)	--	6.2	ND(6)	--	--	0.9
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	--	ND(1)	4.9	110	ND(2)	--	ND(2)	--	2.4	--	ND(6)	870	0.35
Western Boundary Wells	BW-3B	08/14/19	86	ND(1)	6.1	110	ND(2)	1100	ND(2)	--	ND(6)	ND(6)	ND(6)	430	0.094
Western Boundary Wells	BW-3B	09/21/20	130	ND(1)	5.7	110	ND(2)	1100	ND(2)	--	ND(6)	ND(6)	ND(6)	450 J+	0.07 J
Western Boundary Wells	BW-3B	09/29/21	--	--	4.9	140	--	--	ND(2)	--	4.1 J	--	0.44 J	1300	0.7
Western Boundary Wells	BW-3B	09/28/22	--	ND(1)	5.1	140	ND(2)	--	ND(2)	--	7.8	4.2 J+	--	--	1.2
Western Boundary Wells	BW-3C	09/18/18	--	--	2.2	240	--	--	ND(2)	--	27	--	ND(6)	3900	3
Western Boundary Wells	BW-3C	08/14/19	6600	ND(1)	1.4	80	ND(2)	1000	ND(2)	--	16	ND(6)	4.1	1700	1.4
Western Boundary Wells	BW-3C	09/22/20	31000 J+	ND(1)	1.2	180	ND(2)	1100	ND(2)	--	16	5.2 J	ND(6)	8200 J+	2.7
Western Boundary Wells	BW-3C	09/29/21	--	--	1.1	100	--	--	ND(2)	--	8.1	--	1.2	5800	1.5
Western Boundary Wells	BW-3C	09/28/22	--	ND(1)	0.85 J	36	ND(2)	--	ND(2)	--	4 J	ND(6)	--	--	0.37 J
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	7.7	95	--	--	ND(2)	--	14	--	6.9	3100	2
Western Boundary Wells	BW-4B	09/27/22	--	ND(1)	9.9	100	ND(2)	--	ND(2)	--	21	ND(6)	--	--	2.3
Western Boundary Wells	BW-4B	12/22/22	--	ND(1)	7.3	57	ND(2)	--	ND(2)	--	5.3 J	3.7 J+	--	--	0.75
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	0.91 J	270	--	--	ND(2)	--	ND(6)	--	4.5 J	110	ND(0.5)
Western Boundary Wells	BW-5B	03/08/22	--	ND(1)	0.96 J	260	ND(1)	--	ND(0.5)	--	1.4	0.21 J	--	--	0.15 J
Western Boundary Wells	BW-5B	06/09/22	--	ND(1)	1.1	280	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-5B	09/27/22	--	ND(1)	0.94 J	290	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Western Boundary Wells	BW-5B	12/22/22	--	ND(1)	1.3	260	ND(2)	--	ND(2)	--	ND(6)	5.7 J+	--	--	ND(0.5)
Western Boundary Wells	BW-5C	12/08/21	--	--	1 J	310	--	--	ND(2)	--	21	--	4.7 J	4500	2.9
Western Boundary Wells	BW-5C	03/08/22	--	ND(1)	2.6	1600	1.6	--	ND(0.5)	--	45	11	--	--	14
Western Boundary Wells	BW-5C	06/09/22	--	ND(5)	0.76 J	240	ND(2)	--	ND(2)	--	6.4	4 J+	--	--	1.4 J
Western Boundary Wells	BW-5C	09/27/22	--	ND(1)	1.8	620	ND(2)	--	ND(2)	--	30	6.2	--	--	7.7
Western Boundary Wells	BW-5C	12/22/22	--	ND(1)	ND(5)	160	ND(2)	--	ND(2)	--	4.6 J	5.9 J+	--	--	1.3

TABLE 5-3. TOTAL METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Total (ug/L)	Manganese, Total (ug/L)	Mercury, Total (ug/L)	Molybdenum, Total (ug/L)	Nickel, Total (ug/L)	Potassium, Total (ug/L)	Selenium, Total (ug/L)	Silver, Total (ug/L)	Sodium, Total (ug/L)	Thallium, Total (ug/L)	Uranium, Total (ug/L)	Vanadium, Total (ug/L)	Zinc, Total (ug/L)
	Cleanup Levels		NA	2,017	2	98.7	372	NA	50	50	NA	2	30	63.1	5,960
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	--	38	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	8.1	1.2	ND(10)
Western Boundary Wells	BW-1C	08/14/19	--	10	ND(0.2)	12	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	9.4	--	ND(10)
Western Boundary Wells	BW-1C	09/20/20	--	9.5	ND(0.2)	12	ND(10)	--	ND(1)	ND(5)	--	ND(0.25) UJ	8.8	--	ND(10)
Western Boundary Wells	BW-1C	09/29/21	--	9.4	ND(0.2)	--	--	--	ND(1)	--	--	--	--	--	ND(10)
Western Boundary Wells	BW-1C	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Western Boundary Wells	BW-2A	09/12/18	--	140	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	ND(0.5)	0.93	ND(10)
Western Boundary Wells	BW-2A	08/14/19	3200	150	ND(0.2)	8.3	ND(10)	300	ND(1)	ND(5)	370000	ND(0.5)	ND(0.5)	--	ND(10)
Western Boundary Wells	BW-2A	09/20/20	--	170	ND(0.2)	ND(8)	ND(10)	--	ND(1)	ND(5)	--	ND(0.25) UJ	0.098 J	--	ND(10) UJ
Western Boundary Wells	BW-2A	09/29/21	--	420	ND(0.2)	--	--	--	0.72 J	--	--	--	--	--	7.8 J
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	--	150	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	10	3.1	ND(10)
Western Boundary Wells	BW-2B	08/14/19	--	180	ND(0.2)	20	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	12	--	11
Western Boundary Wells	BW-2B	09/21/20	--	140	ND(0.2)	19	ND(10)	--	ND(1)	ND(5)	--	ND(0.25)	11	--	ND(10)
Western Boundary Wells	BW-2B	09/29/21	--	150	ND(0.2)	--	--	--	0.41 J	--	--	--	--	--	ND(10)
Western Boundary Wells	BW-2B	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	260
Western Boundary Wells	BW-2C	09/18/18	--	59	0.045	--	--	--	ND(5)	3.5	--	--	5.5	--	15
Western Boundary Wells	BW-2C	08/14/19	--	96	ND(0.2)	8.8	12	--	0.77	ND(5)	--	0.4	7.2	--	24
Western Boundary Wells	BW-2C	09/22/20	--	930	ND(0.2) UJ	ND(8)	46 J+	--	3.4	ND(5)	--	0.37	9.1	--	76 J
Western Boundary Wells	BW-2C	09/29/21	--	260	ND(0.2)	--	--	--	1.7	--	--	--	--	--	17
Western Boundary Wells	BW-2C	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	5.6 J	ND(10)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	--	120	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	0.16	2.6	ND(10)
Western Boundary Wells	BW-3B	08/14/19	--	110	ND(0.2)	13	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	0.12	--	ND(10)
Western Boundary Wells	BW-3B	09/21/20	--	100	ND(0.2)	11	ND(10)	--	ND(1)	ND(5)	--	ND(0.25)	0.1 J	--	ND(10)
Western Boundary Wells	BW-3B	09/29/21	--	120	ND(0.2)	--	--	--	ND(1)	--	--	--	--	--	ND(10) UJ
Western Boundary Wells	BW-3B	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	4.6 J	ND(10)
Western Boundary Wells	BW-3C	09/18/18	--	160	0.045	--	--	--	ND(5)	12	--	--	1.7	--	17
Western Boundary Wells	BW-3C	08/14/19	--	56	ND(0.2)	13	11	--	ND(1)	1.5	--	ND(0.5)	1.5	--	13
Western Boundary Wells	BW-3C	09/22/20	--	140	ND(0.2) UJ	7.2 J	12 J+	--	0.7 J	ND(5)	--	ND(0.25)	1.4	--	25 J
Western Boundary Wells	BW-3C	09/29/21	--	77	ND(0.2)	--	--	--	0.69 J	--	--	--	--	--	8.7 J
Western Boundary Wells	BW-3C	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	ND(10)
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	52	ND(0.2)	--	--	--	0.74 J	--	--	--	66	--	22
Western Boundary Wells	BW-4B	09/27/22	--	--	ND(0.2)	--	6.9 J-	--	0.46 J	ND(5)	--	--	--	110	14
Western Boundary Wells	BW-4B	12/22/22	--	--	0.13J/ND(0.2)U*	--	ND(10)	--	ND(1)	ND(5)	--	--	--	37 J	6.5J/ND(10)U*
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	20	ND(0.2)	--	--	--	0.77 J	--	--	--	31	--	ND(10)
Western Boundary Wells	BW-5B	03/08/22	--	--	ND(0.2)	--	2.9	--	0.76 J	0.66	--	--	--	12	ND(10)
Western Boundary Wells	BW-5B	06/09/22	--	--	ND(0.2)	--	ND(10)	--	1.1	ND(5)	--	--	--	9.2 J	ND(10)
Western Boundary Wells	BW-5B	09/27/22	--	--	ND(0.2)	--	ND(10) UJ	--	0.57 J	ND(5)	--	--	--	13 J	ND(10)
Western Boundary Wells	BW-5B	12/22/22	--	--	0.13J/ND(0.2)U*	--	ND(10)	--	1.5	ND(5)	--	--	--	13 J	ND(10)
Western Boundary Wells	BW-5C	12/08/21	--	110	0.26	--	--	--	ND(5)	--	--	--	48	--	16
Western Boundary Wells	BW-5C	03/08/22	--	--	0.42	--	33	--	3	0.3 J	--	--	--	41	41
Western Boundary Wells	BW-5C	06/09/22	--	--	0.19 J	--	ND(10)	--	ND(5)	ND(5)	--	--	--	8.9 J	6.5 J
Western Boundary Wells	BW-5C	09/27/22	--	--	0.3	--	13 J-	--	2.2	ND(5)	--	--	--	36 J	37
Western Boundary Wells	BW-5C	12/22/22	--	--	0.27 JB	--	ND(10)	--	ND(5)	ND(5)	--	--	--	9.9 J	ND(10)

-- = Not Measured
* = The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration by the data validator. The result was determined to be a false positive.
J = Estimated concentration
J- = Estimated concentration, possibly biased low
J+ = Estimated concentration, possibly biased high
JB = Estimated concentration due to blank contamination
ND(x) = Not detected, where x = the reporting limit
NS - Dry = Not sampled due to dry well
NS - SPH = Not sampled due to presence of Separate Phase Hydrocarbons
NS - UTA = Not sampled, unable to access location
Q = Quarter
R = Rejected, Data not usable
U = Evaluated to be undetected at the reported concentration
ug/L = micrograms per liter
UJ = Estimated reporting limit

Notes:
Bolded detections and italicized non-detections exceeded the cleanup levels selected in Table 3-2.
Data prior to July 2019 was not validated and flags have not been applied.

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Deep Monitoring Wells	OW-01	12/08/21	--	--	0.69 J	38	--	--	ND(2)	--	ND(6)	--	ND(1)	15 J	ND(0.5)
Deep Monitoring Wells	OW-01	03/15/22	--	ND(1)	0.52 J	44	ND(2)	--	ND(6)	--	ND(6)	ND(6)	--	--	0.077 J
Deep Monitoring Wells	OW-01	06/15/22	--	ND(1)	0.7 J	37	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-01	09/27/22	--	ND(1)	0.6 J	41	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-01	12/22/22	--	ND(1)	0.78 J	35	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-10	12/08/21	--	--	0.67 J	65	--	--	ND(2)	--	ND(6)	--	13	16 J	ND(2.5)
Deep Monitoring Wells	OW-10	03/08/22	--	ND(5)	ND(5)	51	ND(5)	--	ND(2.5)	--	ND(5)	3.2 J	--	--	ND(2.5)
Deep Monitoring Wells	OW-10	06/08/22	--	ND(1)	0.65 J	46	ND(2)	--	ND(2)	--	ND(6)	3.9 J	--	--	0.08 J
Deep Monitoring Wells	OW-10	09/27/22	--	ND(1)	0.58 J	49	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.1 J
Deep Monitoring Wells	OW-10	12/22/22	--	ND(5)	ND(5)	46	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Deep Monitoring Wells	OW-11	09/18/18	--	--	1.8	7.5	--	--	ND(2)	11000	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-11	08/20/19	7.3	ND(1)	1.9	6.8	ND(2)	1300	ND(2)	10000	ND(6)	ND(6)	4	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-11	09/20/20	7.2 J	ND(1)	2	8.5	ND(2)	1400	ND(2)	12000	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-11	09/30/21	--	--	2	7.3	--	--	--	--	--	--	ND(1)	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	--	2	21	--	--	ND(2)	--	2.5	--	ND(6)	69	ND(0.5)
Deep Monitoring Wells	OW-12	09/17/20	27 J-	ND(1)	1.5	18	ND(2)	380	ND(2)	--	2.4 J	ND(6)	ND(6)	23	0.069 J
Deep Monitoring Wells	OW-12	09/30/21	--	--	1.6	20	--	--	--	--	--	--	ND(1)	22	0.064 J
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	ND(1)	1.8	20	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.071 J
Deep Monitoring Wells	OW-13	12/07/21	--	--	0.74 J	20	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Deep Monitoring Wells	OW-13	03/23/22	--	ND(1)	0.74 J	25	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	06/09/22	--	ND(1)	0.69 J	21	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	09/07/22	--	ND(1)	0.57 J	21	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Deep Monitoring Wells	OW-13	12/28/22	--	ND(1)	1.3	20	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-12A	12/22/21	--	--	2.2	120	--	--	ND(2)	--	ND(6)	--	0.85 J	68	ND(0.5)
Eastern Boundary Wells	OW-12A	03/22/22	--	0.7 J	4.4	130	ND(2)	--	ND(2)	--	ND(6)	5.3 J	--	--	0.41 J
Eastern Boundary Wells	OW-12A	06/28/22	--	ND(1)	6.3	120	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	1
Eastern Boundary Wells	OW-12A	09/15/22	--	ND(1)	6.4	130	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	1
Eastern Boundary Wells	OW-12A	12/07/22	--	1	15	170	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.65
Eastern Boundary Wells	OW-14	12/30/21	--	--	3.5 J	2100	--	--	ND(2)	--	ND(6)	--	ND(5)	4300	ND(2.5)
Eastern Boundary Wells	OW-14	03/24/22	--	ND(1)	2.8	2100	ND(2)	--	ND(2)	--	ND(6)	5 J	--	--	ND(0.5)
Eastern Boundary Wells	OW-14	06/30/22	--	ND(1)	3.4	2400	ND(2)	--	ND(2)	--	ND(6)	7.7	--	--	ND(0.5)
Eastern Boundary Wells	OW-14	09/30/22	--	ND(1)	2.7	2300	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-14	12/29/22	--	ND(1)	3.9	2200 J	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	12/07/21	--	--	0.7 J	84	--	--	ND(2)	--	ND(6)	--	ND(1)	420	ND(0.5)
Eastern Boundary Wells	OW-29	03/08/22	--	ND(1)	0.59 J	92	ND(1)	--	ND(2.5)	--	0.48J/ND(1)U*	ND(6)	--	--	ND(2.5)
Eastern Boundary Wells	OW-29	06/09/22	--	0.67 J	0.46 J	85	ND(2)	--	ND(6)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	09/07/22	--	ND(1)	0.55 J	78	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-29	12/27/22	--	ND(1)	1.6	91	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-30	12/30/21	--	--	0.78 J	140	--	--	ND(2)	--	ND(6)	--	3.4 J	200	0.71 J
Eastern Boundary Wells	OW-30	03/24/22	--	ND(1)	0.84 J	160	ND(2)	--	ND(2)	--	ND(6)	4.6 J	--	--	0.53
Eastern Boundary Wells	OW-30	06/30/22	--	ND(1)	0.79 J	150	ND(2)	--	ND(2)	--	ND(6)	3.7 J	--	--	0.35 J
Eastern Boundary Wells	OW-30	09/30/22	--	ND(1)	0.76 J	130	ND(2) UJ	--	ND(2)	--	ND(6)	2.5 J	--	--	0.44 J
Eastern Boundary Wells	OW-30	12/29/22	--	ND(1)	1.1	130 J	2.9 J	--	ND(10)	--	ND(30)	ND(30)	--	--	0.25 J
Eastern Boundary Wells	OW-50	12/07/21	--	--	1.9	53	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Eastern Boundary Wells	OW-50	03/08/22	--	ND(1)	1.8	50	ND(1)	--	ND(0.5)	--	0.25J/ND(1)U*	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-50	06/09/22	--	ND(1)	2	54	ND(2)	--	ND(6)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-50	09/07/22	--	ND(1)	1.8	52	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-50	12/27/22	--	ND(1)	2.8	53	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-52	12/07/21	--	--	0.58 J	29	--	--	ND(2)	--	ND(6)	--	ND(1)	60	ND(0.5)
Eastern Boundary Wells	OW-52	03/08/22	--	ND(1)	0.79 J	43	ND(1)	--	ND(0.5)	--	0.41J/ND(1)U*	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-52	06/09/22	--	ND(1)	0.58 J	28	ND(2)	--	ND(6)	--	ND(6)	ND(6)	--	--	ND(2.5)
Eastern Boundary Wells	OW-52	09/07/22	--	ND(1)	0.61 J	29	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-52	12/27/22	--	ND(1)	0.96 J	28	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	5.1 J	180	--	--	ND(2)	--	ND(6)	--	3.9 J	350	8.1
Eastern Boundary Wells	OW-54	03/23/22	--	0.47 J	8.1	200	ND(2)	--	ND(2)	--	ND(6)	86	--	--	6.4
Eastern Boundary Wells	OW-54	06/15/22	--	ND(1)	3.6	160	ND(2)	--	ND(2)	--	ND(6)	67	--	--	7.8
Eastern Boundary Wells	OW-54	09/07/22	--	ND(1)	8	170	ND(2)	--	ND(2)	--	ND(6)	71	--	--	10
Eastern Boundary Wells	OW-54	12/27/22	--	ND(1)	4	170	ND(2)	--	ND(2)	--	ND(6)	73	--	--	5
Eastern Boundary Wells	OW-55	12/29/21	--	--	4.1 J	580	--	--	ND(2)	--	ND(6)	--	ND(10)	3600	ND(5)
Eastern Boundary Wells	OW-55	03/23/22	--	ND(5)	5.1	640	ND(2)	--	ND(2)	--	ND(6)	12	--	--	ND(0.5)
Eastern Boundary Wells	OW-55	06/15/22	--	ND(1)	4.5	570	ND(2)	--	ND(2)	--	ND(6)	7.9	--	--	0.059 J
Eastern Boundary Wells	OW-55	09/07/22	--	ND(1)	5.2	580	ND(2)	--	ND(2)	--	ND(6)	8.2	--	--	ND(0.5)
Eastern Boundary Wells	OW-55	12/27/22	--	ND(1)	5.9	560	ND(2)	--	ND(2)	--	ND(6)	5.7 J	--	--	ND(0.5)
Eastern Boundary Wells	OW-56	12/23/21	--	--	2.8	410	--	--	ND(2)	--	ND(6)	--	3.5	47	0.17 J
Eastern Boundary Wells	OW-56	03/23/22	--	ND(20)	3.7	430	ND(2)	--	ND(2)	--	ND(6)	7.4	--	--	0.15 J
Eastern Boundary Wells	OW-56	06/15/22	--	ND(1)	2	370	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.25 J
Eastern Boundary Wells	OW-56	09/07/22	--	ND(1)	2.3	360	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.41 J
Eastern Boundary Wells	OW-56	12/28/22	--	ND(1)	4.2	390	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.22 J
Eastern Boundary Wells	OW-66	12/07/21	--	--	4.9	1300	--	--	ND(2)	--	ND(6)	--	0.38 J	4300	1
Eastern Boundary Wells	OW-66	03/23/22	--	ND(5)	6.3	1800	ND(2)	--	ND(2)	--	ND(6)	5.3 J	--	--	0.69
Eastern Boundary Wells	OW-66	06/15/22	--	ND(1)	4.1	1400	ND(2)	--	ND(2)	--	ND(6)	3.3 J	--	--	0.32 J
Eastern Boundary Wells	OW-66	09/07/22	--	ND(1)	5.9	2100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.45 J
Eastern Boundary Wells	OW-66	12/27/22	--	ND(1)	11	2300	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.85
Eastern Boundary Wells	OW-70	12/22/21	--	--	2.5	620	--	--	ND(2)	--	ND(6)	--	4.5	73	0.13 J
Eastern Boundary Wells	OW-70	03/22/22	--	0.49 J	1.5	540	ND(2)	--	ND(2)	--	ND(6)	7	--	--	0.19 J
Eastern Boundary Wells	OW-70	06/28/22	--	ND(1)	1	540	ND(2)	--	ND(2)	--	ND(6)	5.3 J	--	--	0.13 J
Eastern Boundary Wells	OW-70	09/15/22	--	ND(1)	1.2	530	ND(2)	--	1 J	--	ND(6)	4.2 J	--	--	0.12 J
Eastern Boundary Wells	OW-70	12/14/22	--	ND(5)	1.5 J	640	ND(2)	--	ND(2)	--	ND(6) UJ	5.6 J	--	--	0.31 J

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
	Cleanup Levels		NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960
Deep Monitoring Wells	OW-01	12/08/21	--	4.1 J	--	--	--	--	2.3	ND(5)	--	--	30	--	15 JB
Deep Monitoring Wells	OW-01	03/15/22	--	--	0.36	--	ND(10)	--	2.7	ND(5)	--	--	--	41 J	9.4J/ND(10)U*
Deep Monitoring Wells	OW-01	06/15/22	--	--	ND(0.2)	--	ND(10)	--	2.1	ND(5)	--	--	--	39 J	48 JB
Deep Monitoring Wells	OW-01	09/27/22	--	--	ND(0.2)	--	ND(10)	--	2.5 J-	ND(5)	--	--	--	36 J	45 JB
Deep Monitoring Wells	OW-01	12/22/22	--	--	0.14J/ND(0.2)U*	--	ND(10)	--	4.7	ND(5)	--	--	--	44 J	ND(10)
Deep Monitoring Wells	OW-10	12/08/21	--	110	--	--	--	--	8.3	ND(5)	--	--	45	--	11 JB
Deep Monitoring Wells	OW-10	03/08/22	--	--	ND(0.2)	--	ND(5)	--	9.5	ND(5)	--	--	--	5.1 J	9.4J/ND(10)U*
Deep Monitoring Wells	OW-10	06/08/22	--	--	ND(0.2)	--	ND(10)	--	10	ND(5)	--	--	--	5.5 J	5.6J/ND(10)U*
Deep Monitoring Wells	OW-10	09/27/22	--	--	ND(0.2)	--	ND(10)	--	9.7	2.3 J	--	--	--	5.5 J	66 JB
Deep Monitoring Wells	OW-10	12/22/22	--	--	0.11J/ND(0.2)U*	--	ND(10)	--	15	ND(5)	--	--	--	6.4 J	6.9 J
Deep Monitoring Wells	OW-11	09/18/18	1200	18	--	--	--	1700	2.5	ND(5)	630000	--	210	--	9.8
Deep Monitoring Wells	OW-11	08/20/19	1200	17	--	170	ND(10)	1600	4.7	ND(5)	600000	ND(0.5)	200	--	3.9
Deep Monitoring Wells	OW-11	09/20/20	1400	18	--	200	ND(10)	1700	ND(1)	ND(5)	630000	ND(0.5)	200	--	21 J
Deep Monitoring Wells	OW-11	09/30/21	--	22	--	--	--	--	0.5 J	--	--	--	--	--	9.8J/ND(10)U*
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	4	--	--	--	--	ND(1)	ND(5)	--	--	12	--	8.1
Deep Monitoring Wells	OW-12	09/17/20	--	2.3	--	8.4	ND(10)	--	ND(1)	ND(5)	--	ND(0.5)	11	--	11
Deep Monitoring Wells	OW-12	09/30/21	--	3.1	--	--	--	--	ND(1)	--	--	--	--	--	8.1J/ND(10)U*
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	0.13 J	--	ND(10)	--	ND(1)	ND(5)	--	--	--	13 J	11 JB
Deep Monitoring Wells	OW-13	12/07/21	--	22	--	--	--	--	ND(1)	ND(5)	--	--	16	--	13 JB
Deep Monitoring Wells	OW-13	03/23/22	--	--	ND(0.2)	--	3.3J/ND(10)U*	--	ND(1)	ND(5)	--	--	--	ND(50)	8.4J/ND(10)U*
Deep Monitoring Wells	OW-13	06/09/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	3.1 J	7.6J/ND(10)U*
Deep Monitoring Wells	OW-13	09/07/22	--	--	0.16J/ND(0.2)U*	--	ND(10)	--	ND(1)	ND(5)	--	--	--	3.1 J	31 JB
Deep Monitoring Wells	OW-13	12/28/22	--	--	0.2J/ND(0.2)U*	--	ND(10)	--	2.2	ND(5)	--	--	--	4J/ND(50)U*	16
Eastern Boundary Wells	OW-12A	12/22/21	--	760	--	--	--	--	1.5	ND(5)	--	--	36	--	160 J
Eastern Boundary Wells	OW-12A	03/22/22	--	--	ND(0.2)	--	8.6 J	--	0.52 J	ND(5)	--	--	--	2.7 J	9.1J/ND(10)U*
Eastern Boundary Wells	OW-12A	06/28/22	--	--	ND(0.2)	--	6.8 J	--	0.58 J	2.1 J	--	--	--	4 J	14 JB
Eastern Boundary Wells	OW-12A	09/15/22	--	--	ND(0.2)	--	7.6 J	--	2 J	ND(1)	--	--	--	4.4 J	13 JB
Eastern Boundary Wells	OW-12A	12/07/22	--	--	ND(0.2)	--	5.5 J	--	2 J+	2 J	--	--	--	ND(50)	8J/ND(10)U*
Eastern Boundary Wells	OW-14	12/30/21	--	2000	--	--	--	--	ND(5)	ND(5)	--	--	1.4 J	--	7.9J/ND(10)U*
Eastern Boundary Wells	OW-14	03/24/22	--	--	ND(0.2)	--	89	--	ND(1)	ND(5)	--	--	--	ND(50)	9.1J/ND(10)U*
Eastern Boundary Wells	OW-14	06/30/22	--	--	ND(0.2)	--	97	--	ND(1)	ND(5)	--	--	--	ND(50)	8.4J/ND(10)U*
Eastern Boundary Wells	OW-14	09/30/22	--	--	ND(0.2)	--	78	--	ND(1)	1.4 J	--	--	--	ND(50)	9.2J/ND(10)U*
Eastern Boundary Wells	OW-14	12/29/22	--	--	ND(0.2)	--	86	--	8	ND(5)	--	--	--	1.9 J	ND(10)
Eastern Boundary Wells	OW-29	12/07/21	--	360	--	--	--	--	ND(1)	ND(5)	--	--	47	--	12 JB
Eastern Boundary Wells	OW-29	03/08/22	--	--	ND(0.2)	--	24	--	ND(1)	ND(5)	--	--	--	ND(50)	10 JB
Eastern Boundary Wells	OW-29	06/09/22	--	--	ND(0.2)	--	25	--	ND(1)	ND(5)	--	--	--	ND(50)	120
Eastern Boundary Wells	OW-29	09/07/22	--	--	0.17J/ND(0.2)U*	--	27	--	ND(1)	1.6 J	--	--	--	1.7 J	30 JB
Eastern Boundary Wells	OW-29	12/27/22	--	--	ND(0.2)	--	28 J-	--	6.9	ND(5)	--	--	--	2.5J/ND(50)U*	24
Eastern Boundary Wells	OW-30	12/30/21	--	190	--	--	--	--	ND(5)	ND(5)	--	--	26	--	12 JB
Eastern Boundary Wells	OW-30	03/24/22	--	--	ND(0.2)	--	85	--	ND(1)	ND(5)	--	--	--	ND(50)	5.2J/ND(10)U*
Eastern Boundary Wells	OW-30	06/30/22	--	--	ND(0.2)	--	89	--	ND(1)	ND(5)	--	--	--	ND(50)	13 JB
Eastern Boundary Wells	OW-30	09/30/22	--	--	ND(0.2)	--	81	--	ND(1)	ND(5)	--	--	--	ND(50)	16 JB
Eastern Boundary Wells	OW-30	12/29/22	--	--	ND(0.2)	--	89	--	6.5	ND(25)	--	--	--	ND(250)	ND(50)
Eastern Boundary Wells	OW-50	12/07/21	--	110	--	--	--	--	ND(1)	ND(5)	--	--	13	--	18 JB
Eastern Boundary Wells	OW-50	03/08/22	--	--	ND(0.2)	--	1.1	--	ND(1)	ND(5)	--	--	--	ND(50)	8.6J/ND(10)U*
Eastern Boundary Wells	OW-50	06/09/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	11 JB
Eastern Boundary Wells	OW-50	09/07/22	--	--	0.18J/ND(0.2)U*	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	44 JB
Eastern Boundary Wells	OW-50	12/27/22	--	--	0.1J/ND(0.2)U*	--	ND(10) UJ	--	1.9	ND(5)	--	--	--	2.5J/ND(50)U*	7.3 J
Eastern Boundary Wells	OW-52	12/07/21	--	29	--	--	--	--	ND(1)	ND(5)	--	--	11	--	14 JB
Eastern Boundary Wells	OW-52	03/08/22	--	--	ND(0.2)	--	0.57 J	--	ND(1)	ND(5)	--	--	--	11 J	4.9J/ND(10)U*
Eastern Boundary Wells	OW-52	06/09/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	13 JB
Eastern Boundary Wells	OW-52	09/07/22	--	--	0.19J/ND(0.2)U*	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	12 JB
Eastern Boundary Wells	OW-52	12/27/22	--	--	0.12J/ND(0.2)U*	--	ND(10) UJ	--	1.2	ND(5)	--	--	--	2.7J/ND(50)U*	14
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	1400	--	--	--	--	ND(10)	ND(5)	--	--	51	--	270
Eastern Boundary Wells	OW-54	03/23/22	--	--	ND(0.2)	--	270	--	ND(1)	ND(5)	--	--	--	ND(50)	17 JB
Eastern Boundary Wells	OW-54	06/15/22	--	--	ND(0.2)	--	230	--	ND(1)	1.3 J	--	--	--	ND(50)	12 JB
Eastern Boundary Wells	OW-54	09/07/22	--	--	0.16J/ND(0.2)U*	--	230	--	ND(1)	1.9 J	--	--	--	3.4 J	17 JB
Eastern Boundary Wells	OW-54	12/27/22	--	--	0.099J/ND(0.2)U*	--	210 J-	--	9.2	ND(5)	--	--	--	5.1J/ND(50)U*	5.8 J
Eastern Boundary Wells	OW-55	12/29/21	--	3200	--	--	--	--	ND(10)	ND(5)	--	--	4.4 J	--	16 JB
Eastern Boundary Wells	OW-55	03/23/22	--	--	ND(0.2)	--	260	--	ND(1)	ND(5)	--	--	--	3.9 J	11 JB
Eastern Boundary Wells	OW-55	06/15/22	--	--	ND(0.2)	--	230	--	ND(1)	1.8 J	--	--	--	3.2 J	48 JB
Eastern Boundary Wells	OW-55	09/07/22	--	--	0.16J/ND(0.2)U*	--	230	--	ND(1)	1.9 J	--	--	--	5.2 J	14 JB
Eastern Boundary Wells	OW-55	12/27/22	--	--	ND(0.2)	--	220 J-	--	4.2	ND(5)	--	--	--	5.7J/ND(50)U*	4.1 J
Eastern Boundary Wells	OW-56	12/23/21	--	170	--	--	--	--	ND(1)	ND(5)	--	--	14	--	120
Eastern Boundary Wells	OW-56	03/23/22	--	--	ND(0.2)	--	83	--	ND(1)	ND(5)	--	--	--	3.3 J	12 JB
Eastern Boundary Wells	OW-56	06/15/22	--	--	ND(0.2)	--	62	--	0.68 J	1.7 J	--	--	--	1.8 J	11 JB
Eastern Boundary Wells	OW-56	09/07/22	--	--	0.15J/ND(0.2)U*	--	65	--	ND(1)	ND(5)	--	--	--	6.7 J	12 JB
Eastern Boundary Wells	OW-56	12/28/22	--	--	0.22 JB	--	74	--	7.5	ND(5)	--	--	--	3.4J/ND(50)U*	3.3 J
Eastern Boundary Wells	OW-66	12/07/21	--	2400	--	--	--	--	ND(1)	ND(5)	--	--	1.8	--	12 JB
Eastern Boundary Wells	OW-66	03/23/22	--	--	ND(0.2)	--	370	--	ND(1)	ND(5)	--	--	--	2.9 J	8.1J/ND(10)U*
Eastern Boundary Wells	OW-66	06/15/22	--	--	ND(0.2)	--	340	--	0.38 J	ND(5)	--	--	--	2.2 J	16 JB
Eastern Boundary Wells	OW-66	09/07/22	--	--	0.17J/ND(0.2)U*	--	330	--	0.45 J	ND(5)	--	--	--	4.1 J	10 JB
Eastern Boundary Wells	OW-66	12/27/22	--	--	0.1J/ND(0.2)U*	--	300 J-	--	5.9	ND(5)	--	--	--	6.2J/ND(50)U*	7 J
Eastern Boundary Wells	OW-70	12/22/21	--	320	--	--	--	--	ND(1)	ND(5)	--	--	6.8	--	16 JB
Eastern Boundary Wells	OW-70	03/22/22	--	--	ND(0.2)	--	48	--	ND(1)	ND(5)	--	--	--	3.5 J	8.6J/ND(10)U*
Eastern Boundary Wells	OW-70	06/28/22	--	--	ND(0.2)	--	45	--	ND(1)	ND(5)	--	--	--	1.8 J	9.7J/ND(10)U*
Eastern Boundary Wells	OW-70	09/15/22	--	--	ND(0.2)	--	44	--	ND(1)	ND(5)	--	--	--	3.1 J	11 JB
Eastern Boundary Wells	OW-70	12/14/22	--	--	ND(0.2)	--	37 J+	--	ND(5)	ND(5)	--	--	--	1.8 J	ND(10)

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Evaporation Ponds	EP-2	12/21/20	290	ND(2)	5.09	177 J	ND(3)	432 J	ND(5)	--	ND(10)	ND(10)	ND(20)	1580 J	ND(1)
Evaporation Ponds	EP-2	06/21/21	85	ND(20)	7.8 J	240	ND(2)	630	ND(2)	--	2.4 J	6.8	ND(6)	420	ND(10)
Evaporation Ponds	EP-2	12/15/21	--	--	7	180	--	--	ND(2)	--	ND(6)	--	2 J	290	ND(2.5)
Evaporation Ponds	EP-2	06/24/22	--	ND(10)	10	170	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(5)
Evaporation Ponds	EP-2	09/09/22	--	1.7	10	140 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	280	ND(2)	10	154	ND(3)	738	ND(5)	--	ND(10)	ND(10)	ND(20)	2250	ND(1)
Evaporation Ponds	EP-3	06/21/21	ND(200)	ND(20)	56	370	ND(20)	4500	ND(20)	--	ND(60)	29 J	ND(60)	2700	ND(25)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	ND(200)	ND(2)	20.7	206	ND(3)	1020	ND(5)	--	ND(10)	ND(10)	ND(20)	632	ND(1)
Evaporation Ponds	EP-4	06/21/21	ND(200)	ND(20)	78	300	ND(20)	3900	ND(60)	--	ND(60)	ND(60)	ND(60)	410	ND(25)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	ND(200)	2.17	22.9	194	ND(3)	1030	ND(5)	--	ND(10)	ND(10)	ND(20)	ND(200)	ND(1)
Evaporation Ponds	EP-5	06/21/21	ND(100)	ND(20)	48	210	ND(10)	2600	ND(10)	--	ND(30)	26 J	ND(30)	85 J	ND(10)
Evaporation Ponds	EP-5	12/15/21	--	--	220	220	--	--	ND(40)	--	ND(120)	--	ND(30)	1500	ND(25)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	ND(200)	2.15	28.8	263	ND(3)	1090	ND(5)	--	ND(10)	ND(10)	ND(20)	ND(200)	ND(1)
Evaporation Ponds	EP-6	06/21/21	ND(100)	ND(20)	36	130	ND(10)	1600	ND(10)	--	ND(30)	18 J	ND(30)	ND(100)	ND(10)
Evaporation Ponds	EP-6	12/15/21	--	--	43	170	--	--	ND(10)	--	ND(30)	--	ND(20)	300	ND(10)
Evaporation Ponds	EP-6	06/24/22	--	ND(50)	130	320	ND(10)	--	ND(10)	--	21 J	ND(30)	--	--	ND(25)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	ND(200)	ND(20)	443	250	ND(3)	11800	ND(50)	--	ND(100)	ND(100)	ND(200)	ND(200)	ND(10)
Evaporation Ponds	EP-7	06/21/21	ND(400)	35 J	940	ND(40)	ND(40)	29000	ND(40)	--	ND(120)	68 J	ND(120)	ND(100)	ND(250)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	ND(2000)	20.2	564	ND(100)	ND(3)	16100	ND(50)	--	ND(100)	ND(100)	51.7	ND(2000)	ND(10)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	--	1600	ND(100)	--	--	ND(100)	--	ND(300)	--	ND(100)	ND(400)	ND(50)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	ND(200)	ND(20)	364	361	ND(3)	9300	ND(50)	--	ND(100)	ND(100)	38.8	ND(200)	ND(10)
Evaporation Ponds	EP-9	06/21/21	ND(1000)	ND(100)	1300	ND(100)	ND(100)	30000	ND(100)	--	ND(300)	130 J	ND(300)	ND(100)	ND(250)
Evaporation Ponds	EP-9	12/15/21	--	--	1600	ND(100)	--	--	ND(100)	--	ND(300)	--	ND(100)	ND(400)	ND(50)
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	ND(2000)	ND(20)	580 J	ND(100)	ND(3)	18800	ND(50)	--	ND(100)	ND(100)	ND(20)	ND(2000)	ND(10)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	8260	ND(10)	19.4	162	ND(3)	1410	ND(5)	--	18	11.7	ND(20)	6790	ND(5)
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	ND(400)	ND(10)	15.9	202	ND(3)	920	ND(5)	--	10.7	ND(10)	ND(20)	828	ND(5)
Evaporation Ponds	EP-12B	06/21/21	ND(100)	ND(10)	44 J	300	ND(10)	3100	ND(10)	--	ND(30)	36	ND(30)	610	ND(25)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	--	2.9	28	--	--	ND(2)	--	ND(6)	--	1.5	74	0.1 J
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	ND(1)	2.8	20	ND(2)	--	ND(2)	--	ND(6)	2.8 J	--	--	ND(0.5)
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	1.2	3.8	40	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	0.65 J	2.1	24 J+	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	1.3	2.1	17 J	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-1	09/13/18	--	ND(1)	1.3	12	ND(2)	--	ND(2)	1700	2.4	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-1	08/12/19	10	ND(1)	1.2	12	ND(2)	750	ND(2)	1800	2.1	ND(6)	ND(6)	ND(20)	0.099
Land Treatment Unit Wells	MW-1	09/22/20	11 J	ND(1) UJ	1.5	12	ND(2)	740	ND(2)	1600	ND(6)	ND(6)	ND(6)	ND(20)	0.082 J
Land Treatment Unit Wells	MW-1	09/29/21	--	--	2	11	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	0.11 J
Land Treatment Unit Wells	MW-1	09/29/22	--	ND(1)	1.4	13	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.13 J
Land Treatment Unit Wells	MW-2	09/13/18	--	ND(1)	0.98	18	ND(2)	--	ND(2)	1600	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-2	08/13/19	2.7	ND(1)	1.1	17	ND(2)	780	ND(2)	1500	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-2	09/18/20	ND(20)	ND(1)	1	17	ND(2)	730	ND(2) UJ	1600	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-2	09/17/21	--	--	ND(20)	18	--	--	ND(2)	--	ND(6)	--	270	ND(20)	ND(10)
Land Treatment Unit Wells	MW-2	09/29/22	--	ND(1)	1	19	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-4	09/13/18	--	ND(1)	0.72	21	ND(2)	--	ND(2)	1900	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-4	08/13/19	5.6	ND(1)	0.78	21	ND(2)	380	ND(2)	1800	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-4	09/18/20	7.3 J+	ND(1)	0.75 J	19	ND(2)	360	ND(2) UJ	1900	2.2 J	ND(6) UJ	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-4	09/17/21	--	--	ND(20)	19	--	--	ND(2)	--	ND(6)	--	ND(20)	ND(20)	ND(10)
Land Treatment Unit Wells	MW-4	09/30/22	--	ND(1)	0.72 J	21	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Land Treatment Unit Wells	MW-5	09/17/18	--	ND(1)	0.93	17	ND(2)	--	ND(2)	1400	ND(6)	--	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	08/14/19	3.3	ND(1)	0.98	16	ND(2)	750	ND(2)	1400	ND(6)	ND(6)	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	09/21/20	ND(20)	ND(1)	0.91 J	17	ND(2)	730	ND(2)	1600	ND(6)	ND(6) UJ	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	09/29/21	--	--	1.1	15	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Land Treatment Unit Wells	MW-5	09/29/22	--	ND(1)	0.86 J	17	ND(10) UJ	--	ND(10)	--	ND(30)	ND(30)	--	--	ND(0.5)
Land Treatment Unit Wells	OW-67	09/17/21	--	ND(10)	2.3 J	74	ND(2)	--	ND(2)	--	ND(6)	11	--	15 J	ND(5)
Land Treatment Unit Wells	OW-67	12/23/21	--	--	2.7 J	62	--	--	ND(10)	--	ND(30)	--	2.2 J	23	ND(2.5)
Land Treatment Unit Wells	OW-67	06/16/22	--	ND(5)	2.7 J	54	ND(2)	--	ND(6)	--	ND(6)	ND(6)	--	--	ND(5)
Land Treatment Unit Wells	OW-67	09/20/22	--	ND(1)	2.7	51	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Land Treatment Unit Wells	OW-67	12/28/22	--	ND(5)	ND(5)	42	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.53
Land Treatment Unit Wells	OW-68	09/17/21	--	ND(10)	5.5 J	85	ND(2)	--	ND(2)	--	ND(6)	79	--	950	1.2 J
Land Treatment Unit Wells	OW-68	12/23/21	--	--	16	66	--	--	ND(2)	--	ND(6)	--	3.3 J	5300	6.6
Land Treatment Unit Wells	OW-68	06/16/22	--	ND(10)	10	56	ND(2)	--	2 J+	--	ND(6)	65	--	--	6
Land Treatment Unit Wells	OW-68	09/20/22	--	ND(1)	16	50	ND(2)	--	ND(2)	--	ND(6)	61	--	--	13
Land Treatment Unit Wells	OW-68	12/28/22	--	ND(1)	19	46	ND(2)	--	ND(2)	--	ND(6)	68	--	--	2.9
Land Treatment Unit Wells	SMW-2	09/18/18	--	--	4.1	14	--	--	ND(2)	320000	ND(6)	--	ND(6)	31	ND(2.5)

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
Cleanup Levels			NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960
Evaporation Ponds	EP-2	12/21/20	--	312 J	ND(0.2)	ND(100)	98	--	ND(5)	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-2	06/21/21	--	380	ND(0.2)	ND(8)	76	--	ND(20)	1.9 J	--	ND(5)	--	--	21 JB
Evaporation Ponds	EP-2	12/15/21	--	300	--	--	--	--	ND(5) UJ	ND(5)	--	--	1.1 J	--	14 JB
Evaporation Ponds	EP-2	06/24/22	--	--	ND(0.2)	--	52	--	ND(10)	10	--	--	--	5 J	11 JB
Evaporation Ponds	EP-2	09/09/22	--	--	0.15J/ND(0.2)U*	--	38	--	1.6	10	--	--	--	6.8J/ND(50)U*	5.9J/ND(10)U*
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	--	286	ND(0.4)	ND(100)	129	--	ND(5)	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-3	06/21/21	--	1100	ND(0.2)	62 J	490	--	19 J	ND(50)	--	ND(12)	--	--	ND(100)
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	--	724	ND(0.4)	ND(100)	99.6	--	ND(5)	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-4	06/21/21	--	1700	ND(0.2)	ND(80)	240	--	8.1 J	ND(50)	--	ND(12)	--	--	ND(100)
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	--	980	ND(0.4)	ND(100)	62.8	--	ND(5)	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-5	06/21/21	--	2100	ND(0.2)	ND(40)	98	--	ND(20)	7.4 J	--	ND(5)	--	--	ND(50)
Evaporation Ponds	EP-5	12/15/21	--	9100	--	--	--	--	18 J	ND(100)	--	--	ND(25)	--	ND(200)
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	--	1020	ND(0.2)	ND(100)	55.9	--	ND(5)	ND(5)	--	ND(1)	ND(5)	--	ND(20)
Evaporation Ponds	EP-6	06/21/21	--	240	ND(0.2)	ND(40)	50	--	ND(20)	ND(25)	--	ND(5)	--	--	ND(50)
Evaporation Ponds	EP-6	12/15/21	--	2400	--	--	--	--	ND(20) UJ	ND(25)	--	--	ND(10)	--	24J/ND(50)U*
Evaporation Ponds	EP-6	06/24/22	--	--	ND(0.2)	--	200	--	ND(50)	26	--	--	--	16 J	ND(50)
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	--	3530	ND(0.2)	ND(1000)	409	--	ND(50)	ND(50)	--	ND(10)	ND(50)	--	ND(20)
Evaporation Ponds	EP-7	06/21/21	--	7400	ND(0.2)	120 J	660	--	87 J	ND(100)	--	ND(120)	--	--	ND(200)
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	--	3610	ND(0.2)	ND(1000)	631	--	ND(50)	ND(50)	--	ND(10)	ND(50)	--	ND(20)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	--	16000	--	--	--	--	ND(100)	ND(250)	--	--	30J*/ND(50)U*	--	ND(500)
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	--	3570	ND(0.2)	ND(1000)	243	--	ND(50)	ND(50)	--	ND(10)	ND(50)	--	ND(20)
Evaporation Ponds	EP-9	06/21/21	--	9700	ND(0.2)	ND(400)	510	--	47 J	ND(250)	--	ND(120)	--	--	ND(500)
Evaporation Ponds	EP-9	12/15/21	--	15000	--	--	--	--	ND(100)	ND(250)	--	--	--	24 J	350J/ND(500)U*
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	--	8500	ND(0.2)	ND(1000)	669	--	ND(500)	ND(50)	--	ND(10)	ND(50)	--	20
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	--	5270	ND(0.2)	ND(200)	211	--	ND(25)	ND(5)	--	ND(5)	ND(25)	--	51.4
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	--	1110	ND(0.2)	ND(200)	125	--	ND(25)	ND(5)	--	ND(5)	ND(25)	--	ND(20)
Evaporation Ponds	EP-12B	06/21/21	--	1300	ND(0.2)	ND(40)	330	--	ND(50)	9.2 J	--	ND(12)	--	--	ND(50)
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	110	--	--	--	--	0.73 J	--	--	--	1.1	--	45 JB
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	--	ND(0.2)	--	ND(10)	--	0.84 J	1.4 J	--	--	--	ND(50)	29 JB
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	ND(0.2)	--	ND(10)	--	0.45 J	4.8 J	--	--	--	2.2 J	25 JB
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	--	0.18J/ND(0.2)U*	--	ND(10)	--	1.1	5.1	--	--	--	4.3J/ND(50)U*	32 JB
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	--	ND(0.2)	--	ND(10)	--	2.2	3.6 J	--	--	--	2.4 J	28
Land Treatment Unit Wells	MW-1	09/13/18	ND(1000)	2	--	--	--	570	ND(1)	ND(5)	270000	--	9.5	2.2	6.9
Land Treatment Unit Wells	MW-1	08/12/19	190	1.7	--	7.6	ND(10)	590	ND(1)	ND(5)	260000	ND(0.5)	10	--	5.9
Land Treatment Unit Wells	MW-1	09/22/20	170 J	2 J	--	7.1 J	ND(10)	550 J	ND(1)	ND(5)	260000	ND(0.5)	9.7	--	8.1 J
Land Treatment Unit Wells	MW-1	09/29/21	--	1.4 J	--	--	--	--	ND(1)	--	--	--	--	--	20
Land Treatment Unit Wells	MW-1	09/29/22	--	--	ND(0.2)	--	22 J	--	ND(1)	ND(5)	--	--	--	ND(50)	96 J
Land Treatment Unit Wells	MW-2	09/13/18	ND(1000)	2.4	--	--	--	500	ND(1)	ND(5)	270000	--	8	ND(50)	7.9
Land Treatment Unit Wells	MW-2	08/13/19	150	1.8	--	9.1	ND(10)	610	ND(1)	ND(5)	280000	ND(0.5)	8.4	--	10
Land Treatment Unit Wells	MW-2	09/18/20	150 J	3.3/ND(3.3)U*	--	ND(8)	ND(10)	690 J	ND(1)	ND(5)	250000	ND(0.5)	7.7	--	19/ND(19)U*
Land Treatment Unit Wells	MW-2	09/17/21	--	1.8 J	ND(0.2)	--	--	--	ND(20)	--	--	--	--	--	230 J
Land Treatment Unit Wells	MW-2	09/29/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	37 JB
Land Treatment Unit Wells	MW-4	09/13/18	ND(1000)	6.4	--	--	--	590	ND(1)	ND(5)	300000	--	14	ND(50)	11
Land Treatment Unit Wells	MW-4	08/13/19	200	5.2	--	9.7	ND(10)	750	ND(1)	ND(5)	310000	ND(0.5)	14	--	6.6
Land Treatment Unit Wells	MW-4	09/18/20	200 J	4	--	6.6 J	ND(10)	720 J	ND(1)	ND(25)	--	ND(0.5)	20 J	--	6.9 J
Land Treatment Unit Wells	MW-4	09/17/21	--	3.5	ND(0.2)	--	--	--	ND(20)	--	--	--	--	--	ND(10)
Land Treatment Unit Wells	MW-4	09/30/22	--	--	0.098 J	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	26 JB
Land Treatment Unit Wells	MW-5	09/17/18	ND(1000)	3.9	--	--	--	600	ND(1)	ND(5)	260000	--	7.5	ND(50)	11
Land Treatment Unit Wells	MW-5	08/14/19	140	3.7	--	8.3	ND(10)	610	ND(1)	ND(5)	290000	ND(0.5)	--	--	6
Land Treatment Unit Wells	MW-5	09/21/20	150 J	3.5	--	8.1	ND(10)	510 J	ND(1)	ND(5)	260000	ND(0.5)	7.7	--	21 J
Land Treatment Unit Wells	MW-5	09/29/21	--	3.3	--	--	--	--	ND(1)	--	--	--	--	--	8 J
Land Treatment Unit Wells	MW-5	09/29/22	--	--	ND(0.2)	--	ND(50)	--	ND(1)	ND(25)	--	--	--	ND(250)	29J/ND(50)U*
Land Treatment Unit Wells	OW-67	09/17/21	--	7400	ND(0.2)	--	98	--	ND(10)	3.9 J	--	--	--	ND(50)	16 JB
Land Treatment Unit Wells	OW-67	12/23/21	--	9100	ND(0.2)	--	--	--	ND(5)	--	--	--	--	--	ND(50)
Land Treatment Unit Wells	OW-67	06/16/22	--	--	ND(0.2)	--	120	--	ND(20)	20	--	--	--	5.5 J	7.2J/ND(10)U*
Land Treatment Unit Wells	OW-67	09/20/22	--	--	ND(0.2)	--	120	--	0.95 J	20	--	--	--	--	6.8J/ND(50)U*
Land Treatment Unit Wells	OW-67	12/28/22	--	--	ND(0.2)	--	85	--	31	14	--	--	--	6.3J/ND(50)U*	ND(10)
Land Treatment Unit Wells	OW-68	09/17/21	--	9600	ND(0.2)	--	150	--	5.8 J	2.9 J	--	--	--	2.3 J	39 JB
Land Treatment Unit Wells	OW-68	12/23/21	--	6400	ND(0.2)	--	--	--	2.7 J	--	--	--	9.9	--	17 JB
Land Treatment Unit Wells	OW-68	06/16/22	--	--	ND(0.2)	--	170	--	7.5 J	11	--	--	--	12 J	16 JB
Land Treatment Unit Wells	OW-68	09/20/22	--	--	0.27	--	160	--	5.3	8.7	--	--	--	16J/ND(50)U*	36 JB
Land Treatment Unit Wells	OW-68	12/28/22	--	--	ND(0.2)	--	150	--	17	6.5	--	--	--	12J/ND(50)U*	6.9 J
Land Treatment Unit Wells	SMW-2	09/18/18	96000	330	--	--	--	740	ND(5)	7.9	2300000	--	99	--	6.5

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Land Treatment Unit Wells	SMW-2	08/22/19	ND(20)	ND(5)	2.6	14	0.42	1400	ND(2)	320000	ND(6)	ND(6)	3.7	26	ND(2.5)
Land Treatment Unit Wells	SMW-2	09/19/20	ND(20)	ND(5)	2.4 J	15	ND(2)	1300	ND(2) UJ	300000	ND(6)	ND(6)	ND(6)	20	ND(2.5)
Land Treatment Unit Wells	SMW-2	09/30/21	--	--	1.9 J	17	--	--	ND(2)	--	ND(6)	--	ND(5)	22	ND(2.5)
Land Treatment Unit Wells	SMW-2	09/30/22	--	ND(1)	2.1	15	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.058 J
Land Treatment Unit Wells	SMW-4	09/12/18	--	ND(1)	2.9	19	ND(2)	--	ND(2)	3700	4.2	--	ND(6)	79	ND(0.5)
Land Treatment Unit Wells	SMW-4	08/13/19	11	ND(1)	3.1	17	ND(2)	1700	ND(2)	3500	2.6	6.6	ND(6)	ND(20)	ND(0.5)
Land Treatment Unit Wells	SMW-4	09/20/20	43	ND(1)	2.9	14	ND(2)	1700	ND(2)	3100	ND(6)	77	ND(6)	17 J	0.038 J
Land Treatment Unit Wells	SMW-4	09/29/21	--	--	3.4	14	--	--	ND(2)	--	ND(6)	--	ND(1)	21	ND(0.5)
Land Treatment Unit Wells	SMW-4	09/29/22	--	ND(1)	2.9	16	ND(2) UJ	--	ND(2)	--	ND(6)	28	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	5.8	5500	--	--	ND(2) UJ	--	ND(6)	--	ND(1)	8200	0.059 J
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	ND(1)	4.7	5600	ND(2)	--	ND(2)	--	ND(6)	3 J	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	2.3 J	59	--	--	ND(2)	--	ND(6)	--	ND(5)	29	ND(2.5)
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	ND(1)	1.8 J	48	ND(2)	--	ND(2)	--	ND(6)	4.1 J	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	1.9	550	--	--	ND(2) UJ	--	ND(6)	--	0.63 J	490	ND(0.5)
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	ND(1)	2.6	640	ND(2)	--	ND(2)	--	ND(6)	5.6 J	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	5.4	8900	--	--	ND(2)	--	ND(6)	--	ND(1)	7700	ND(0.5)
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	ND(1)	3.8	8000	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	11	4300	--	--	ND(2)	--	ND(6)	--	ND(5)	3100	ND(2.5)
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	ND(1)	13	4000	ND(2)	--	ND(2)	--	ND(6)	5.8 J	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	ND(1)	11	3500	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	0.91 J	160	--	--	ND(2)	--	ND(6)	--	6.4	39	0.065 J
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	0.7 J	1.4	210	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.17 J
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	0.6 J	1.1	280	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	330	0.68
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	4.7	340	--	--	ND(2)	--	ND(6)	--	0.44 J	160	0.12 J
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	ND(1)	3.7	410	ND(2)	--	ND(2)	--	ND(6)	3.3 J	--	--	0.24 J
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	6.2	1600	--	--	ND(2)	--	ND(6)	--	ND(1)	2100	ND(0.5)
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	ND(1)	5.6	1600	ND(2)	--	ND(2)	--	ND(6)	3.2 J	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	ND(1)	8.5	1600	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	ND(1)	7.3	1700	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	0.61J/ND(1)U*	8	1900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	3.2	830	--	--	ND(2)	--	ND(6)	--	ND(1)	640	1.1
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	ND(1)	3.1	810	ND(2)	--	ND(2)	--	ND(6)	11	--	--	0.69
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	1.7	290	--	--	ND(2)	--	ND(6)	--	0.83 J	33	ND(0.5)
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	ND(1)	0.79 J	190	ND(2)	--	ND(2)	--	ND(6)	5.8 J	--	--	0.23 J
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	ND(5)	80	--	--	ND(2)	--	ND(6)	--	2.7	ND(20)	ND(2.5)
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	ND(5)	1.1 J	68	ND(10)	--	ND(10)	--	ND(30)	ND(30)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	ND(5)	ND(5)	55	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	ND(1)	0.42 J	59 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.093 J
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	ND(5)	ND(5)	65	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	0.95 J	100	--	--	ND(2)	--	ND(6)	--	1.8	40	0.064 J
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	ND(1)	0.9 J	120	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	ND(1)	0.84 J	100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	0.77 J	0.93 J	73 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.14 J
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	ND(1)	55	86	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.18 J
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	0.77 J	230	--	--	ND(2)	--	ND(6)	--	2.4	ND(20)	ND(2.5)
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	ND(1)	0.73 J	220	ND(2)	--	ND(2)	--	ND(6)	5.3 J	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	ND(1)	0.83 J	160	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.064 J
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	ND(1)	0.78 J	200 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	ND(1)	ND(5)	220	ND(2)	--	ND(2)	--	ND(6) UJ	ND(6)	--	--	0.073 J
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	0.54 J	38	--	--	ND(2)	--	ND(6)	--	1.9	ND(20)	0.072 J
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	ND(1)	0.59 J	39	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.072 J
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	ND(1)	0.63 J	35	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	ND(1)	0.6 J	36 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.098 J
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	ND(5)	ND(5)	29 J	ND(2) UJ	--	ND(2) UJ	--	ND(6) UJ	ND(6) UJ	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	0.53 J	120	--	--	ND(2)	--	ND(6)	--	0.87 J	ND(20)	0.08 J
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	ND(1)	0.59 J	120	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.12 J

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
	Cleanup Levels		NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960
Land Treatment Unit Wells	SMW-2	08/22/19	100000	360	--	ND(8)	39	720	ND(5)	4.8	2400000	ND(2.5)	110	--	ND(10)
Land Treatment Unit Wells	SMW-2	09/19/20	100000	400	--	ND(8)	42	810 J	ND(5)	4.1 J	2200000	ND(2.5)	88	--	12/ND(12)U*
Land Treatment Unit Wells	SMW-2	09/30/21	--	380	--	--	41	--	ND(5)	--	--	--	--	--	14 JB
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	ND(0.2)	--	41	--	ND(1)	7.8	--	--	--	ND(50)	20 JB
Land Treatment Unit Wells	SMW-4	09/12/18	990	4.2	--	--	--	620	ND(1)	ND(5)	300000	--	29	45	9.4
Land Treatment Unit Wells	SMW-4	08/13/19	810	0.56	--	12	ND(10)	480	ND(1)	ND(5)	300000	ND(0.5)	31	--	7.5
Land Treatment Unit Wells	SMW-4	09/20/20	670 J	1.4 J	--	9.3	ND(10)	500 J	ND(1)	ND(5)	280000	ND(0.5)	26	--	11
Land Treatment Unit Wells	SMW-4	09/29/21	--	0.73 J	--	--	ND(10)	--	ND(1)	--	--	--	--	--	14
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	ND(0.2) UJ	--	ND(10)	--	ND(1)	ND(5)	--	--	--	46 J	55 JB
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	3100	--	ND(0.2)	--	--	ND(1)	ND(5)	--	--	2	--	8.8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	ND(0.2)	--	27	--	0.38 J	ND(5)	--	--	--	ND(50)	7.7J/ND(10)U*
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	210	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	80	--	17/ND(17)U*
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	ND(0.2)	--	14	--	ND(5)	1.6 J	--	--	--	3.2 J	13 JB
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	2500	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	21	--	75 JB
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	ND(0.2)	--	8.3 J	--	ND(1)	ND(5)	--	--	--	ND(50)	12 JB
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	4600	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	0.44 J	--	10/ND(10)U*
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	ND(0.2)	--	20	--	ND(1)	ND(5)	--	--	--	ND(50)	8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	5000	ND(0.2)	--	--	--	ND(5)	ND(5)	--	--	8.7	--	10/ND(10)U*
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	ND(0.2)	--	26	--	0.46 J	ND(5)	--	--	--	ND(50)	10 JB
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	ND(0.2)	--	25	--	ND(5)	2.9 J	--	--	--	3 J	18 JB
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	12	ND(0.2)	--	--	--	0.49 J	ND(5)	--	--	--	1.2 JB	29 JB
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	ND(0.2)	--	5.4 J	--	0.49 J	ND(5)	--	--	--	3.8 J	34 JB
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	ND(0.2)	--	7.5 J	--	ND(1)	ND(5)	--	--	--	4.2 J	17 JB
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	3400	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	4.7	--	7.8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	ND(0.2)	--	5.8 J	--	ND(1)	ND(5)	--	--	--	ND(50)	33 JB
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	2400	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	3.6	--	15 JB
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	ND(0.2)	--	5.7 J	--	ND(1)	ND(5)	--	--	--	ND(50)	10 JB
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	ND(0.2)	--	6.2 J	--	ND(1)	1.6 J	--	--	--	2.4 J	9.9J/ND(10)U*
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	ND(0.2)	--	4.1 J	--	ND(1) UJ	1.5 J	--	--	--	1.7 J	9.3J/ND(10)U*
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	0.13 J+	--	7.5 J	--	ND(1)	1.4 J	--	--	--	ND(50)	190
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	4400	0.15 J	--	--	--	ND(1)	ND(5)	--	--	8.9	--	11/ND(11)U*
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	ND(0.2)	--	33	--	0.39 J	ND(5)	--	--	--	ND(50)	8.8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	2700	ND(0.2)	--	--	--	0.44 J	ND(5)	--	--	33	--	7.5J/ND(10)U*
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	ND(0.2)	--	29	--	0.41 J	ND(5)	--	--	--	ND(50)	5.4J/ND(10)U*
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	0.96 J	ND(0.2)	--	--	--	ND(5) UJ	ND(5)	--	--	17	--	11 JB
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	ND(0.2)	--	33 J	--	4.7 J	ND(25)	--	--	--	ND(250)	ND(50)
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	ND(0.2)	--	31	--	1.8 J	6.2	--	--	--	2.5 J	8.4J/ND(10)U*
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	ND(0.2)	--	32 J+	--	0.51 J-	4.3 J	--	--	--	3.8 J	11 JB
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	ND(0.2)	--	30	--	3.1 J	3.1 J	--	--	--	3.9 J	ND(10)
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	4	ND(0.2)	--	--	--	0.51 J-	ND(5)	--	--	130	--	15 JB
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	ND(0.2)	--	7.9 J	--	0.68 J	ND(5)	--	--	--	2.7 J	5.9J/ND(10)U*
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	ND(0.2)	--	5.9 J	--	ND(1)	2.2 J	--	--	--	4.2 J	9J/ND(10)U*
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	ND(0.2)	--	5 J+	--	0.44 J-	1.9 J	--	--	--	6.4 J	43 JB
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	ND(0.2)	--	6.2 J	--	ND(50)	2 J	--	--	--	5.5 J	ND(10)
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	5500	ND(0.2)	--	--	--	ND(5) UJ	1.9 J	--	--	18	--	10 J
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	ND(0.2)	--	20	--	ND(5)	1.7 J	--	--	--	3.4 J	6.1J/ND(10)U*
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	ND(0.2)	--	15	--	ND(1)	7.2	--	--	--	6.4 J	8.7J/ND(10)U*
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	ND(0.2)	--	18 J+	--	ND(1) UJ	7.7	--	--	--	8.3 J	11 JB
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	ND(0.2)	--	15	--	2.7 J	4.4 J	--	--	--	5.6 J	ND(10)
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	1.4 J	ND(0.2)	--	--	--	ND(1) UJ	ND(5)	--	--	34	--	13
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	ND(0.2)	--	17	--	ND(1)	ND(5)	--	--	--	3.1 J	8.2J/ND(10)U*
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	ND(0.2)	--	15	--	0.37 J	2.5 J	--	--	--	4.1 J	6.3J/ND(10)U*
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	ND(0.2)	--	18 J+	--	ND(1) UJ	2.2 J	--	--	--	4.6 J	9J/ND(10)U*
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	ND(0.2)	--	13 J	--	ND(5)	2 J-	--	--	--	3.1 J-	ND(10) UJ
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	40	ND(0.2)	--	--	--	ND(1)	ND(5)	--	--	45	--	8J/ND(10)U*
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	ND(0.2)	--	6.6 J	--	ND(1)	ND(5)	--	--	--	2.4 J	8.2J/ND(10)U*

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	ND(1)	0.64 J	110	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.088 J
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	ND(1)	0.7 J	100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.082 J
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	ND(1)	0.68 J	110	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.093 J
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	ND(1)	2.8	46	--	--	ND(2)	--	ND(6)	--	1.7	ND(20)	0.1 J
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	ND(1)	2.5	56	ND(1)	--	ND(0.5)	--	0.23J/ND(1)U*	ND(6)	--	--	0.095 J
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	ND(1)	2.5	45	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.087 J
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	ND(1)	2.5	47	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.094 J
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	ND(1)	3	3.9 J	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	ND(1)	0.55 J	68	ND(2)	--	ND(2)	--	ND(6)	--	0.84 J	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	ND(5)	2 J	180	ND(5)	--	ND(2.5)	--	ND(5)	8	--	--	1.4 J
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	0.38 J	3400	--	--	ND(2)	--	ND(6)	--	ND(1)	7100	0.15 J
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	0.71 J-	0.58 J	3600	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	0.76 J	1.3	3900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	0.79 J	26	ND(2)	--	ND(2)	--	ND(6)	--	1.3	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	ND(1)	2.8	54	ND(2)	--	ND(2)	--	ND(6)	3.8 J	--	--	0.068 J
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	ND(1)	5.4	44	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.1 J
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	ND(1)	5.4	130	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	0.85J/ND(1)U*	10	84	1.9J/ND(2)U*	--	1.1 J	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	0.65 J	63	--	--	ND(2)	--	ND(6)	--	0.7 J	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	ND(5)	ND(5)	60	ND(2)	--	ND(2)	--	ND(6)	5.1 J	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	ND(5)	0.92 J	47	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	ND(1)	0.66 J	48	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	ND(5)	1 J	45 J	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	ND(1)	2.2	59	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	ND(1)	2.3	66	ND(1)	--	ND(0.5)	--	1.3 JB	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	ND(1)	2	63	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	ND(1)	1.9	70	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	ND(1)	ND(5)	82 J	--	--	ND(10)	--	ND(30)	ND(30)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	ND(1)	2.9	48	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	ND(5)	2.3	54	ND(1)	--	ND(0.5)	--	0.3J/ND(1)U*	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	3.2 J	65	--	--	ND(20)	--	ND(60)	--	ND(20)	1200	ND(10)
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	ND(20)	ND(20)	52	ND(20)	--	3 J	--	ND(20)	23 J	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	ND(10)	ND(50)	40	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(10)
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	4 J	2.6 J	55	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.47 J
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	ND(10)	ND(10)	42	0.85 J	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(5)
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	12	29	--	--	ND(2)	--	3.1 J	--	0.48 J	54	0.16 J
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	ND(1)	13	29	ND(2)	--	ND(2)	--	2.9 J	ND(6)	--	--	0.09 J
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	ND(1)	12	35 J-	ND(2)	--	ND(2)	--	2.4 J	ND(6)	--	--	0.32 J
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	0.7 J	12	33	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.13 J
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	ND(1)	12	22	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	ND(1)	1.4	30	--	--	ND(2)	--	ND(6)	--	0.56 J	ND(20)	ND(0.5)
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	1.5 J-	0.93 J	30	ND(2)	--	ND(2)	--	ND(6)	2.9 J	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	ND(1)	0.66 J	37	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	ND(1)	0.77 J	37	0.97 J	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	0.57J/ND(1)U*	0.81 J	42	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	3.2	12	--	--	ND(2)	--	ND(6)	--	ND(1)	49	ND(0.5)
Production Wells	PW-3	03/09/22	--	ND(5)	3.7 J	13	ND(5)	--	ND(2.5)	--	ND(5)	3.2 J	--	--	ND(2.5)
Production Wells	PW-3	06/14/22	--	ND(1)	3.6	11	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Production Wells	PW-3	09/08/22	--	ND(1)	0.13 J	11	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Production Wells	PW-3	12/06/22	--	0.66J/ND(1)U*	3.8	12 JB	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Production Wells	PW-4	12/28/21	--	--	1.1 J	14	--	--	ND(2)	--	ND(6)	--	ND(5)	160	ND(2.5)
Production Wells	PW-4	03/09/22	--	ND(5)	0.94 J	12	ND(5)	--	ND(2.5)	--	ND(5)	2.5 J	--	--	ND(2.5)
Production Wells	PW-4	06/14/22	--	ND(1)	2.9	13	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Production Wells	PW-4	09/08/22	--	ND(1)	1.3	12	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	0.76 J	--	--	--	--	--	ND(6)	--	1.4	33	0.27 J
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	ND(1)	0.87 J	210	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.27 J
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	ND(1)	0.71 J	200	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.24 J
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	ND(1)	0.67 J	210 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.21 J
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	ND(5)	0.64 J	160	ND(2)	--	ND(2)	--	ND(6) UJ	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	ND(5)	180	--	--	52	--	3300	--	ND(5)	990000	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	ND(5)	0.87 J	170	5.1	--	31	--	7700	120	--	--	1.4 J
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	ND(1)	0.98 J	53	4.5	--	ND(2)	--	2900	14	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	ND(1)	0.79 J	49	2 J	--	ND(2)	--	1500	28	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	ND(1)	0.58 J	15	1.6J/ND(2)U*	--	ND(2)	--	1500	15	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	ND(5)	74	--	--	13	--	140	--	ND(5)	250000	ND(2.5)

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
Cleanup Levels	NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960		
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	ND(0.2)	--	5.8 J	--	ND(1)	1.6 J	--	--	6.7J/ND(50)U*	7.9J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	ND(0.2)	--	3.9 J	--	0.51 J-	2 J	--	--	6.3 J	10 JB	
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	ND(0.2)	--	4.6 J	--	ND(1)	1.6 J	--	--	3.9 J	4.8 J	
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	51 J	ND(0.2)	--	--	--	ND(1)	ND(5)	--	ND(0.25)	--	12 JB	
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	ND(0.2)	--	3.3	--	ND(1)	ND(5)	--	--	6.3 J	4.6J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	ND(0.2)	--	3.8 J	--	ND(1)	ND(5)	--	--	4.9 J	8.7J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	ND(0.2)	--	3.3 J	--	ND(1)	ND(5)	--	--	4.2 J	14 JB	
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	ND(0.2)	--	ND(10)	--	4.4	ND(5)	--	--	ND(50)	ND(10)	
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	250	ND(0.2)	--	--	2	ND(5)	ND(0.25)	--	--	--	110	
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	0.23 JB	--	ND(5)	--	ND(5)	--	--	--	ND(50)	13 JB	
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	3400	ND(0.2)	--	--	ND(1)	ND(5)	--	--	0.62	--	75	
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	ND(50)	5.7J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	2.8 J	--	--	2.9 J	16 JB	
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	410	ND(0.2)	--	--	1.3	ND(5)	--	--	23	--	94	
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	ND(0.2)	--	5.5 J	--	2.1	ND(5)	--	--	4.1 J	5.5J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	ND(0.2)	--	5.9 J	--	1.8	2.7 J	--	--	3.9 J	12 JB	
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	ND(0.2)	--	4 J	--	0.75 J-	4 J	--	--	4 J	15 JB	
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	0.1 J+	--	ND(10)	--	ND(5)	3.5 J	--	--	3.8 J	16 JB	
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	0.88 J	ND(0.2)	--	--	ND(5)	ND(5)	--	--	39	--	7.4J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	ND(0.2)	--	10	--	ND(5)	1.6 J	--	--	8.4 J	10 JB	
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	ND(0.2)	--	13	--	ND(5)	5.6	--	--	13J/ND(50)U*	18 JB	
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	ND(0.2)	--	8.8 J	--	0.39 J-	6.6	--	--	11 J	7.7J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	ND(0.2)	--	9.6 J	--	ND(5)	7	--	--	9.7 J	11	
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	17	ND(0.2)	--	--	40	ND(5)	--	--	ND(0.25)	--	9.3J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	0.16 J+	--	ND(1)	--	37	ND(5)	--	--	30 J	9.7J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	ND(0.2)	--	ND(10)	--	33	ND(5)	--	--	27 J	7.5J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	ND(0.2)	--	ND(10)	--	31	ND(5)	--	--	24 J	16 JB	
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	ND(0.2)	--	ND(50)	--	35	ND(25)	--	--	16 J	ND(50)	
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	51	ND(0.2)	--	--	0.78 J	ND(5)	--	--	ND(0.25)	--	7.5J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	0.092 J+	--	ND(1)	--	0.83 J	ND(5)	--	--	58	11 JB	
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	11000	ND(0.2)	--	--	ND(20)	ND(50)	--	--	290	--	ND(100)	
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	ND(0.2)	--	ND(20)	--	ND(20)	ND(25)	--	--	ND(250)	20J/ND(50)U*	
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	ND(0.2)	--	6.4 J	--	ND(50)	37	--	--	6.7 J	7.4J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	ND(0.2)	--	27	--	ND(5)	39	--	--	8.1 J	16 JB	
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	0.093J/ND(0.2)U*	--	5.6 J	--	88	25	--	--	5.8 J	ND(10)	
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	3.3	ND(0.2)	--	--	11	ND(5)	--	--	160	--	14 JB	
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	ND(0.2)	--	ND(10)	--	13	ND(5)	--	--	130	12 JB	
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	ND(0.2)	--	ND(10) UJ	--	12	ND(5)	--	--	120	10 JB	
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	ND(0.2)	--	ND(10)	--	12 J-	ND(5)	--	--	130	14 JB	
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	0.1J/ND(0.2)U*	--	ND(10)	--	15	ND(5)	--	--	110	ND(10)	
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	510	ND(0.2)	--	--	0.38 J	ND(5)	--	--	ND(0.25)	--	8.8J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	2.1 J	9.9J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	3.2 J	--	--	4 J	8.4J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	ND(0.2)	--	ND(10)	--	ND(1) UJ	3.9 J	--	--	5.6 J	9.9J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	0.13 J+	--	ND(10)	--	0.69 J	3.2 J	--	--	3.7 J	8J/ND(10)U*	
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Production Wells	PW-3	12/16/21	--	11	--	--	--	0.62 J	--	--	--	--	1.4	--	
Production Wells	PW-3	03/09/22	--	--	0.093J/ND(0.2)U*	--	ND(5)	--	ND(5)	ND(5)	--	--	--	2.6 J	
Production Wells	PW-3	06/14/22	--	--	ND(0.2)	--	ND(10) UJ	--	1.1	5.8	--	--	--	1.9 J	
Production Wells	PW-3	09/08/22	--	--	0.17J/ND(0.2)U*	--	ND(10)	--	1	5.8	--	--	--	2.4 J	
Production Wells	PW-3	12/06/22	--	--	0.11 J+	--	ND(10)	--	1.1	4 J	--	--	--	3.8 J	
Production Wells	PW-4	12/28/21	--	5.2	--	--	--	ND(5)	--	--	--	--	1.7J/ND(2.5)U*	19 JB	
Production Wells	PW-4	03/09/22	--	--	0.093J/ND(0.2)U*	--	ND(5)	--	ND(5)	ND(5)	--	--	--	ND(50)	
Production Wells	PW-4	06/14/22	--	--	ND(0.2)	--	ND(10) UJ	--	0.7 J	5	--	--	--	ND(50)	
Production Wells	PW-4	09/08/22	--	--	0.18J/ND(0.2)U*	--	ND(10)	--	ND(1)	3.7 J	--	--	--	2.4 J	
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	490	--	--	--	0.41 J-	--	--	--	--	18	--	
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	ND(0.2)	--	27	--	ND(1)	ND(5)	--	--	--	17 J	
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	ND(0.2)	--	25	--	ND(1)	ND(5)	--	--	--	16 J	
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	ND(0.2)	--	22 J+	--	1.4 J-	ND(5)	--	--	--	15 J	
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	ND(0.2)	--	19 J+	--	ND(5)	ND(5)	--	--	--	17 J	
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	11000	--	--	--	ND(5)	ND(5)	--	--	--	ND(2.5)	--	
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	0.1 J	--	8100	--	ND(5)	ND(5)	--	--	--	160	
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	ND(0.2)	--	3300 J-	--	ND(5)	ND(5)	--	--	--	18 J	
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	0.1										

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(5)	ND(5)	69	0.9 J	--	13	--	140	14	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	ND(5)	ND(5)	68	ND(2)	--	12	--	140	13	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	ND(1)	ND(5)	39	ND(2)	--	ND(2)	--	510	3.9 J	--	--	0.43 J
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	ND(1)	0.59 J	29	1.3 J	--	ND(2)	--	270	3.1 J	--	--	0.11 J
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	ND(1)	0.62 J	39	1J/ND(2)U*	--	ND(2)	--	120	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	1.5	--	--	--	--	--	ND(6)	--	0.58 J	1900	0.13 J
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	ND(1)	1.8	4400	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.26 J
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	ND(1)	1.7	4900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.25 J
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	ND(1)	1.8	4900 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.32 J
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	ND(5)	1.5 J	3000	ND(2)	--	ND(2)	--	ND(6) UJ	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	2	--	--	--	--	--	ND(6)	--	0.8 J	330	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	ND(1)	1.1	2600	ND(2)	--	ND(2)	--	ND(6)	2.7 J	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	ND(1)	1.3	2900	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	ND(1)	1.7	2300 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	ND(5)	2.1 J	1400	ND(2)	--	ND(2)	--	ND(6) UJ	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	4.7 J	940	--	--	ND(2)	--	ND(6)	--	ND(10)	1200	4.1 J
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	ND(5)	5 J	940	ND(2)	--	ND(2)	--	ND(6)	11	--	--	5.9
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	ND(5)	5.5	910	ND(2)	--	1.1 J	--	ND(6)	5.1 J	--	--	5.3
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	ND(1)	5	820 J-	ND(2)	--	ND(2)	--	ND(6)	4.8 J	--	--	5
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	3.2 J	4.3 J	710 J-	ND(2) UJ	--	ND(2) UJ	--	ND(6) UJ	4.1 J-	--	--	3
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	3.5 J	11	--	--	ND(10)	--	ND(30)	--	ND(5)	13 J	ND(2.5)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	ND(10)	4.7 J	14	ND(2)	--	ND(2)	--	ND(6)	5 J	--	--	0.61 J
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	ND(5)	4.3 J	9.8	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	ND(1)	3.5	11	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	ND(1)	4.4	7.9	0.72 J	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	1.3 J	31	--	--	ND(2)	--	4.2 J	--	ND(5)	ND(20)	ND(2.5)
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	ND(1)	1.3 J	35	ND(2)	--	ND(2)	--	4.4 J	2.7 J	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	ND(1)	1.4 J	30	ND(2)	--	ND(2)	--	5.4 J	ND(6)	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	ND(1)	1.4	27	ND(2)	--	ND(2)	--	4.6J/ND(6)U*	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	ND(1)	ND(1)	28	ND(10)	--	ND(10)	--	ND(30)	ND(30)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	2.3	82	--	--	ND(2)	--	ND(6)	--	ND(1)	32	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	ND(1)	2.4 J	96	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	ND(1)-NW	2.5	70	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	ND(1)	2.3	65	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	ND(5)	2.2 J	63 J-	ND(2) UJ	--	ND(2) UJ	--	ND(6) UJ	ND(6) UJ	--	--	ND(2.5)
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	2.4	3400	--	--	ND(2)	--	ND(6)	--	ND(1)	3500	ND(0.5)
Tank Farm Wells	OW-57	03/10/22	--	ND(1) UJ	2.3	3300	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-57	06/29/22	--	ND(1)	2.5	3500	ND(2)	--	ND(2)	--	ND(6)	2.6 J	--	--	ND(0.5)
Tank Farm Wells	OW-57	09/15/22	--	ND(1)	2.5	3100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-57	12/07/22	--	2.3 J	2 J	3600	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-58	12/14/21	--	--	3.5	4800	--	--	ND(2)	--	ND(6)	--	ND(1)	9900	ND(0.5)
Tank Farm Wells	OW-58	03/10/22	--	ND(1) UJ	3.2	5100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-58	06/29/22	--	ND(1)	3.5	5100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-58	09/20/22	--	ND(1)	3.2	4800	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-58	12/14/22	--	2.7J/ND(5)U*	2.5 J	4700	ND(2)	--	ND(2)	--	ND(6) UJ	ND(6)	--	--	0.34 J
Tank Farm Wells	OW-58A	12/14/21	--	--	4.1	910	--	--	ND(2)	--	ND(6)	--	ND(1)	4200	0.85
Tank Farm Wells	OW-58A	03/10/22	--	ND(1) UJ	3.7	940	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.77
Tank Farm Wells	OW-58A	06/29/22	--	ND(1)	3.8	1000 J-	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.87
Tank Farm Wells	OW-58A	09/20/22	--	ND(1)	3.6	920	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	1.2
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	7.7	4300	--	--	ND(2)	--	ND(6)	--	ND(1)	6200	ND(0.5)
Tank Farm Wells	OW-63	03/10/22	--	ND(1) UJ	7.5	4600	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-63	06/08/22	--	0.61 J	6.8	4100	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-63	09/20/22	--	ND(1)	7.1	4400	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-63	12/07/22	--	ND(5)	5.7	4800	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-64	12/29/21	--	--	2.9 J	330	--	--	ND(2)	--	ND(6)	--	ND(10)	19 J	ND(5)
Tank Farm Wells	OW-64	03/24/22	--	ND(1)	2.4	330	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Tank Farm Wells	OW-64	06/08/22	--	ND(1)	2	230	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.08 J
Tank Farm Wells	OW-64	09/20/22	--	ND(1)	2.6	240	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.065 J
Tank Farm Wells	OW-64	12/07/22	--	ND(1)	2.5	290	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.087 J
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
	Cleanup Levels		NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(0.2)	--	880	--	ND(5)	ND(5)	--	--	--	69	12 JB
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	ND(0.2)	--	890	--	ND(5)	ND(5)	--	--	--	71	8J/ND(10)U*
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	ND(0.2)	--	960 J-	--	ND(5)	ND(5)	--	--	--	ND(50)	64
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	0.19J/ND(0.2)U*	--	1100	--	0.7 J	ND(5)	--	--	--	5.2 J	120
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	ND(0.2)	--	980	--	0.48 J	ND(5)	--	--	--	5.1 J	130
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	1400	--	--	--	ND(1) UJ	--	--	--	--	0.21 J	--	12
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	ND(0.2)	--	56	--	0.46 J	ND(5)	--	--	--	ND(50)	8J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	ND(0.2)	--	63	--	ND(1)	2.8 J	--	--	--	2.5 J	14 JB
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	ND(0.2)	--	68 J+	--	0.53 J-	2.6 J	--	--	--	4.2 J	9.6J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	ND(0.2)	--	94 J+	--	ND(5)	ND(5)	--	--	--	2.6 J	ND(10)
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	1900	--	--	--	ND(1) UJ	--	--	--	--	1.3	--	11
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	ND(0.2)	--	28	--	ND(1)	ND(5)	--	--	--	ND(50)	5.6J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	ND(0.2)	--	22	--	ND(1)	2.9 J	--	--	--	ND(50)	8.4J/ND(10)U*
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	ND(0.2)	--	22 J+	--	ND(1) UJ	2.8 J	--	--	--	2.3 J	12 JB
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	ND(0.2)	--	19 J+	--	ND(5)	1.5 J	--	--	--	ND(50)	ND(10)
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	940	--	--	--	ND(10) UJ	ND(5)	--	--	--	33	--	19 JB
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	ND(0.2)	--	160	--	ND(5)	ND(5)	--	--	--	24 J	25 JB
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	ND(0.2)	--	180	--	1.8 J	2.9 J	--	--	--	23 J	32 JB
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	ND(0.2)	--	170 J+	--	1.2 J-	2.5 J	--	--	--	29 J	23 JB
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	ND(0.2)	--	150 J	--	2.2 J	1.9 J-	--	--	--	10 J-	9.7 J-
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	39	ND(0.2)	--	--	ND(5)	ND(25)	--	--	--	130	--	ND(50)
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	ND(0.2)	--	42	--	ND(10)	ND(5)	--	--	--	3.4 J	9.1J/ND(10)U*
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	ND(0.2)	--	37	--	1.8 J	5 J	--	--	--	5.2 J	6.2J/ND(10)U*
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	ND(0.2)	--	40	--	1.4	4.8 J	--	--	--	2.9 J	14 JB
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	ND(0.2)	--	31	--	19	2.8 J	--	--	--	6.1J/ND(50)U*	ND(10)
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	6.2	--	--	--	19	ND(5)	--	--	--	50	--	110
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	ND(0.2)	--	12 JB	--	21	ND(5)	--	--	--	11 J	11 JB
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	ND(0.2)	--	3.7 J	--	16	2.9 J	--	--	--	12 J	11 JB
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	0.24	--	3.8 J	--	16	2.1 J	--	--	--	13J/ND(50)U*	11 JB
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	ND(0.2)	--	ND(50)	--	34	ND(25)	--	--	--	15J/ND(250)U*	ND(50)
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	0.98 J	--	--	--	5.2 J-	1.6 J	--	--	--	37	--	14
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	ND(0.2)	--	ND(10)	--	6.3	2.4 J	--	--	--	34 J	12 JB
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	ND(0.2)	--	ND(10)	--	7.8	1.6 J	--	--	--	39 J	8.9J/ND(10)U*
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	0.24	--	ND(10)	--	5.9	2 J	--	--	--	39J/ND(50)U*	11 JB
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	ND(0.2)	--	ND(10) UJ	--	7.3	1.6 J-	--	--	--	39 J-	ND(10) UJ
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	1800	--	--	--	ND(1) UJ	ND(5)	ND(5)	--	--	0.15 J	--	11
Tank Farm Wells	OW-57	03/10/22	--	--	ND(0.2)	--	57	--	ND(1)	ND(5)	--	--	--	2.3 J	8J/ND(10)U*
Tank Farm Wells	OW-57	06/29/22	--	--	ND(0.2)	--	57 J-	--	ND(1)	ND(5)	--	--	--	2.9 J	7.8J/ND(10)U*
Tank Farm Wells	OW-57	09/15/22	--	--	ND(0.2)	--	56	--	ND(1)	1.9 J	--	--	--	3.9 J	9.8J/ND(10)U*
Tank Farm Wells	OW-57	12/07/22	--	--	0.11 J	--	58	--	ND(5)	1.6 J	--	--	--	3 J	9.9J/ND(10)U*
Tank Farm Wells	OW-58	12/14/21	--	1700	--	--	--	ND(1)	ND(5)	ND(5)	--	--	0.14 J	--	10
Tank Farm Wells	OW-58	03/10/22	--	--	ND(0.2)	--	51	--	ND(1)	ND(5)	--	--	--	3.1 J	9.1J/ND(10)U*
Tank Farm Wells	OW-58	06/29/22	--	--	ND(0.2)	--	50 J-	--	ND(1)	ND(5)	--	--	--	3.1 J	11 JB
Tank Farm Wells	OW-58	09/20/22	--	--	0.16 J	--	46	--	0.44 J	1.3 J	--	--	--	5J/ND(50)U*	5.9J/ND(10)U*
Tank Farm Wells	OW-58	12/14/22	--	--	ND(0.2)	--	45 J+	--	ND(5)	1.7 J	--	--	--	3.2 J	ND(10)
Tank Farm Wells	OW-58A	12/14/21	--	1300	--	--	--	ND(1)	ND(5)	ND(5)	--	--	0.068 J	--	7.2 J
Tank Farm Wells	OW-58A	03/10/22	--	--	ND(0.2)	--	37	--	ND(1)	ND(5)	--	--	--	ND(50)	15 JB
Tank Farm Wells	OW-58A	06/29/22	--	--	ND(0.2)	--	36 J-	--	0.41 J	ND(5)	--	--	--	ND(50)	15 JB
Tank Farm Wells	OW-58A	09/20/22	--	--	ND(0.2)	--	38	--	0.42 J	ND(5)	--	--	--	5.9J/ND(50)U*	11 JB
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	1000	--	--	--	ND(1)	ND(5)	ND(5)	--	--	0.31 J	--	20 JB
Tank Farm Wells	OW-63	03/10/22	--	--	ND(0.2)	--	27	--	ND(1)	ND(5)	--	--	--	2.7 J	15 JB
Tank Farm Wells	OW-63	06/08/22	--	--	ND(0.2)	--	28	--	ND(1)	ND(5)	--	--	--	2.7 J	14 JB
Tank Farm Wells	OW-63	09/20/22	--	--	ND(0.2)	--	28	--	ND(1)	1.5 J	--	--	--	4.5J/ND(50)U*	12 JB
Tank Farm Wells	OW-63	12/07/22	--	--	ND(0.2)	--	22	--	ND(5)	ND(5)	--	--	--	ND(50)	9.3J/ND(10)U*
Tank Farm Wells	OW-64	12/29/21	--	310	--	--	--	ND(10)	ND(5)	ND(5)	--	--	10	--	19 JB
Tank Farm Wells	OW-64	03/24/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	3.5 J	8.1J/ND(10)U*
Tank Farm Wells	OW-64	06/08/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	3.5 J	5.4J/ND(10)U*
Tank Farm Wells	OW-64	09/20/22	--	--	0.17 J	--	ND(10)	--	ND(1)	ND(5)	--	--	--	7.4J/ND(50)U*	38 JB
Tank Farm Wells	OW-64	12/07/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	4.8 J	ND(10)
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Aluminum, Dissolved (ug/L)	Antimony, Dissolved (ug/L)	Arsenic, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Beryllium, Dissolved (ug/L)	Boron, Dissolved (ug/L)	Cadmium, Dissolved (ug/L)	Calcium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Copper, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lead, Dissolved (ug/L)
	Cleanup Levels		19,914	6	10	2,000	4	3,949	5	NA	100	5.98	790	13,822	NA
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	--	ND(1)	ND(1)	17	ND(2)	--	ND(2)	2900	1.3	--	ND(6)	24	ND(0.5)
Western Boundary Wells	BW-1C	08/14/19	20	0.46	0.15	17	ND(2)	1600	ND(2)	2900	ND(6)	ND(6)	ND(6)	22	ND(0.5)
Western Boundary Wells	BW-1C	09/20/20	18 J	ND(1)	ND(1)	18 J+	ND(2)	1600	ND(2)	3000	ND(6)	ND(6)	ND(6)	27 J	ND(0.5)
Western Boundary Wells	BW-1C	09/29/21	--	--	0.13 J	16	--	--	ND(2)	--	ND(6)	--	ND(1)	19 J	ND(0.5)
Western Boundary Wells	BW-1C	09/28/22	--	ND(1)	0.17 J	17	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-2A	09/12/18	--	ND(1)	7.6	150	ND(2)	--	ND(2)	8600	ND(6)	--	ND(6)	380	ND(0.5)
Western Boundary Wells	BW-2A	09/20/20	ND(20)	ND(1)	7.8	150 J+	ND(2)	780	ND(2)	8900	ND(6)	9	ND(6)	350 J	ND(0.5)
Western Boundary Wells	BW-2A	09/29/21	--	--	5.8	120	--	--	ND(2)	--	ND(6)	--	0.48J/ND(1)U*	120	0.13 J
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	--	ND(1)	0.73	41	ND(2)	--	ND(2)	12000	ND(6)	--	ND(6)	160	ND(0.5)
Western Boundary Wells	BW-2B	08/14/19	51	ND(1)	0.74	39	ND(2)	1700	ND(2)	12000	ND(6)	ND(6)	ND(6)	130	ND(0.5)
Western Boundary Wells	BW-2B	09/21/20	ND(20)	ND(1)	0.79 J	38	ND(2)	1800	ND(2)	12000	ND(6)	ND(6) UJ	ND(6)	190	ND(0.5)
Western Boundary Wells	BW-2B	09/29/21	--	--	0.67 J	37	--	--	ND(2)	--	ND(6)	--	1.7 JB	190	ND(0.5)
Western Boundary Wells	BW-2B	09/28/22	--	ND(1)	0.53 J	39	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-2C	09/18/18	--	--	0.77	18	--	--	ND(2)	2100	ND(6)	--	ND(6)	170	ND(0.5)
Western Boundary Wells	BW-2C	08/14/19	510	ND(1)	0.87	19	ND(2)	1100	ND(2)	2100	3.1	ND(6)	ND(6)	160	0.19
Western Boundary Wells	BW-2C	09/22/20	3600 J	ND(1) UJ	1.3	110 J	ND(2)	1200	ND(2)	11000 J	7.9	ND(6)	ND(6)	920 J	2.9 J
Western Boundary Wells	BW-2C	09/29/21	--	--	0.8 J	16	--	--	ND(2)	--	ND(6)	--	ND(1)	86	0.1 J
Western Boundary Wells	BW-2C	09/28/22	--	ND(1)	0.8 J	16	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	--	ND(1)	4.7	110	ND(2)	--	ND(2)	8000	ND(6)	--	ND(6)	410	ND(0.5)
Western Boundary Wells	BW-3B	08/14/19	ND(20)	ND(1)	5.9	100	ND(2)	980	ND(2)	8000	ND(6)	ND(6)	ND(6)	350	ND(0.5)
Western Boundary Wells	BW-3B	09/21/20	ND(20)	ND(1)	5.6	100	ND(2)	990	ND(2)	8300	ND(6)	ND(6) UJ	ND(6)	370	ND(0.5)
Western Boundary Wells	BW-3B	09/29/21	--	--	5.1	92	--	--	ND(2)	--	ND(6)	--	ND(1)	85	ND(0.5)
Western Boundary Wells	BW-3B	09/28/22	--	1.3	4.2	100	ND(2) UJ	--	ND(2)	--	ND(6)	2.5 J	--	--	0.07 J
Western Boundary Wells	BW-3C	09/18/18	--	--	1	35	--	--	ND(2)	3600	ND(6)	--	ND(6)	150	ND(0.5)
Western Boundary Wells	BW-3C	08/14/19	400	ND(1)	1	29	ND(2)	970	ND(2)	3200	2.4	ND(6)	ND(6)	120	0.061
Western Boundary Wells	BW-3C	09/22/20	2400	ND(1) UJ	0.98 J	140	ND(2)	970	ND(2)	5500	14	3.1 J	ND(6)	610	1
Western Boundary Wells	BW-3C	09/29/21	--	--	0.91 J	29	--	--	ND(2)	--	ND(6)	--	ND(1)	140	0.29 J
Western Boundary Wells	BW-3C	09/28/22	--	0.57 J	0.78 J	23	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	0.088 J
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	--	5.9	45	--	--	ND(2)	--	ND(6)	--	0.55 J	190	0.097 J
Western Boundary Wells	BW-4B	09/27/22	--	ND(1)	6.2	41	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-4B	12/22/22	--	ND(1)	6.7	38	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	--	0.87 J	250	--	--	ND(2)	--	ND(6)	--	ND(1)	ND(20)	ND(0.5)
Western Boundary Wells	BW-5B	03/08/22	--	ND(1)	0.79 J	260	ND(1)	--	ND(0.5)	--	0.69J/ND(1)U*	ND(6)	--	--	0.1 J
Western Boundary Wells	BW-5B	06/09/22	--	0.7 J	0.88 J	260	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	0.064 J
Western Boundary Wells	BW-5B	09/27/22	--	ND(1)	0.85 J	290	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-5B	12/22/22	--	ND(1)	1.7	260	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-5C	12/08/21	--	--	0.5 J	100	--	--	ND(2)	--	ND(6)	--	2.5 J	640	ND(2.5)
Western Boundary Wells	BW-5C	03/08/22	--	ND(5)	0.43 J	110	ND(1)	--	ND(2.5)	--	0.48J/ND(1)U*	ND(6)	--	--	ND(2.5)
Western Boundary Wells	BW-5C	06/09/22	--	ND(5)	0.55 J	99	ND(2)	--	ND(2)	--	ND(6)	2.9 J	--	--	ND(2.5)
Western Boundary Wells	BW-5C	09/27/22	--	ND(1)	0.31 J	93	ND(2) UJ	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)
Western Boundary Wells	BW-5C	12/22/22	--	ND(1)	1.3	72	ND(2)	--	ND(2)	--	ND(6)	ND(6)	--	--	ND(0.5)

TABLE 5-4. DISSOLVED METALS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Magnesium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Mercury, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)	Nickel, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Sodium, Dissolved (ug/L)	Thallium, Dissolved (ug/L)	Uranium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Zinc, Dissolved (ug/L)
	Cleanup Levels		NA	2,017	NA	98.7	372	NA	50	81.2	NA	2	NA	63.1	5,960
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	410	9.3	--	--	--	1000	ND(1)	ND(5)	320000	--	8.1	ND(50)	5.8
Western Boundary Wells	BW-1C	08/14/19	390	8	--	12	ND(10)	830	ND(1)	ND(5)	340000	ND(0.5)	7.8	--	11
Western Boundary Wells	BW-1C	09/20/20	410 J	9.1	--	13	ND(10) UJ	820 J	ND(1)	ND(5)	300000	ND(0.5)	7.6	--	9.3J/ND(10)U*
Western Boundary Wells	BW-1C	09/29/21	--	8.6	--	--	--	--	ND(1)	--	--	--	--	--	16
Western Boundary Wells	BW-1C	09/28/22	--	--	ND(0.2)	--	7.7 J	--	ND(1)	ND(5)	--	--	--	ND(50)	24 JB
Western Boundary Wells	BW-2A	09/12/18	3200	140	--	--	--	550	ND(1)	ND(5)	340000	--	ND(0.5)	ND(50)	8
Western Boundary Wells	BW-2A	09/20/20	3300	140	--	7.3 J	ND(10) UJ	340 J	ND(1)	ND(5)	320000	ND(0.5)	0.067 J	--	76 JB
Western Boundary Wells	BW-2A	09/29/21	--	87	--	--	--	--	ND(1)	--	--	--	--	--	9.1 J
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	2900	150	--	150	--	1300	ND(1)	ND(5)	580000	--	11	ND(50)	6.3
Western Boundary Wells	BW-2B	08/14/19	2900	150	--	22	ND(10)	1100	ND(1)	ND(5)	620000	ND(0.5)	10	--	8
Western Boundary Wells	BW-2B	09/21/20	3000	140	--	18	ND(10)	1000 J	ND(1)	ND(5)	570000	ND(0.5)	10	--	9.9 J
Western Boundary Wells	BW-2B	09/29/21	--	140	--	--	--	--	ND(1)	--	--	--	--	--	13 J
Western Boundary Wells	BW-2B	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	43 JB
Western Boundary Wells	BW-2C	09/18/18	390	12	--	--	--	720	ND(1)	ND(5)	300000	--	5.9	--	5
Western Boundary Wells	BW-2C	08/14/19	440	12	--	15	ND(10)	680	ND(1)	ND(5)	340000	ND(0.5)	5.4	--	9.8
Western Boundary Wells	BW-2C	09/22/20	4200	200 J	--	ND(8)	9.1 J	2900	ND(1)	ND(5)	320000	ND(0.5)	7.7	--	19
Western Boundary Wells	BW-2C	09/29/21	--	14	--	--	--	--	ND(1)	--	--	--	--	--	ND(10)
Western Boundary Wells	BW-2C	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	18 JB
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	2600	110	--	--	--	790	ND(1)	ND(5)	390000	--	0.19	ND(50)	7.6
Western Boundary Wells	BW-3B	08/14/19	2600	100	--	12	ND(10)	610	ND(1)	ND(5)	420000	ND(0.5)	0.11	--	5.1
Western Boundary Wells	BW-3B	09/21/20	2600	100	--	12	ND(10)	520 J	ND(1)	ND(5)	370000	ND(0.5)	0.086 J	--	6.5 J
Western Boundary Wells	BW-3B	09/29/21	--	96	--	--	--	--	ND(1)	--	--	--	--	--	27 J
Western Boundary Wells	BW-3B	09/28/22	--	--	ND(0.2)	--	ND(10)	--	ND(1)	ND(5)	--	--	--	ND(50)	300 J+
Western Boundary Wells	BW-3C	09/18/18	560	21	--	--	--	1000	ND(1)	ND(5)	350000	--	1.1	--	7.2
Western Boundary Wells	BW-3C	08/14/19	530	17	--	15	ND(10)	910	ND(1)	ND(5)	380000	ND(0.5)	1.2	--	7.8
Western Boundary Wells	BW-3C	09/22/20	6600	98	--	8.5	10	2500	ND(1)	ND(5)	360000	ND(0.5)	1.4	--	350 J
Western Boundary Wells	BW-3C	09/29/21	--	18	--	--	--	--	ND(1)	--	--	--	--	--	15
Western Boundary Wells	BW-3C	09/28/22	--	--	ND(0.2)	--	ND(10)	--	0.67 J	ND(5)	--	--	--	ND(50)	28 JB
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	16	--	--	--	--	ND(1)	--	--	--	60	--	10 JB
Western Boundary Wells	BW-4B	09/27/22	--	--	ND(0.2)	--	16	--	ND(1)	ND(5)	--	--	--	9.4 J	14 JB
Western Boundary Wells	BW-4B	12/22/22	--	--	0.1J/ND(0.2)U*	--	ND(10)	--	1.6	ND(5)	--	--	--	16 J	ND(10)
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	16	--	--	--	0.83 J	--	--	--	--	30	--	15 JB
Western Boundary Wells	BW-5B	03/08/22	--	--	0.1J/ND(0.2)U*	--	11	--	1.1	ND(5)	--	--	--	8.4 J	7.4J/ND(10)U*
Western Boundary Wells	BW-5B	06/09/22	--	--	ND(0.2)	--	ND(10)	--	0.55 J	ND(5)	--	--	--	9.6 J	9.6J/ND(10)U*
Western Boundary Wells	BW-5B	09/27/22	--	--	ND(0.2)	--	ND(10)	--	0.81 J	ND(5)	--	--	--	7 J	48 JB
Western Boundary Wells	BW-5B	12/22/22	--	--	0.13J/ND(0.2)U*	--	ND(10)	--	6.4	ND(5)	--	--	--	12 J	11
Western Boundary Wells	BW-5C	12/08/21	--	29	--	--	--	0.44 J	--	--	--	--	43	--	90
Western Boundary Wells	BW-5C	03/08/22	--	--	0.14J/ND(0.2)U*	--	2.5 J	--	0.45 J	ND(5)	--	--	--	ND(50)	7.3J/ND(10)U*
Western Boundary Wells	BW-5C	06/09/22	--	--	ND(0.2)	--	ND(10)	--	0.4 J	ND(5)	--	--	--	2.6 J	8.6J/ND(10)U*
Western Boundary Wells	BW-5C	09/27/22	--	--	ND(0.2)	--	ND(10)	--	0.36 J	2.2 J	--	--	--	ND(50)	36 JB
Western Boundary Wells	BW-5C	12/22/22	--	--	0.13J/ND(0.2)U*	--	ND(10)	--	10	1.3 J	--	--	--	3.4 J	8.8 J

-- = Not Measured
* = The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration by the data validator. The result was determined to be a false positive.
J = Estimated concentration
J- = Estimated concentration, possibly biased low
J+ = Estimated concentration, possibly biased high
JB = Estimated concentration due to blank contamination
ND(x) = Not detected, where x = the reporting limit
NS - Dry = Not sampled due to dry well
NS - SPH = Not sampled due to presence of Separate Phase Hydrocarbons
NS - UTA = Not sampled, unable to access location
Q = Quarter
U = Evaluated to be undetected at the reported concentration
ug/L = micrograms per liter
UJ = Estimated reporting limit

Notes:
Bolded detections and italicized non-detections exceeded the cleanup levels selected in Table 3-2.
Data prior to July 2019 was not validated and flags have not been applied.

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
	Cleanup Levels		30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Deep Monitoring Wells	OW-01	12/08/21	--	--	--	130000	--	--	220	--	240 JB	--	ND(100)	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	--	--	--	660000	--	--	340 J	--	1300	--	ND(500)	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	09/18/18	--	280	--	90000	--	--	1800	--	890	--	ND(500)	ND(10000)	--
Deep Monitoring Wells	OW-11	08/20/19	--	340	--	98000	--	--	2000	--	1600	--	ND(500)	--	ND(2500)
Deep Monitoring Wells	OW-11	09/20/20	--	ND(100)	--	77000	--	--	2300	--	220	--	ND(100)	ND(500)	--
Deep Monitoring Wells	OW-11	09/30/21	--	190	--	82000	--	--	2300	--	16J/ND(100)U*	--	ND(100)	ND(500)	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	09/17/20	--	--	--	--	--	--	--	--	7700	--	ND(100)	--	--
Deep Monitoring Wells	OW-12	09/30/21	--	160	--	20000	--	--	420	--	22J/ND(100)U*	--	ND(100)	ND(500)	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	12/07/21	--	500	--	36000	--	--	220	ND(1000) R	--	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	--	--	--	770000	--	--	ND(500)	--	ND(500)	--	ND(500)	--	--
Eastern Boundary Wells	OW-12A	03/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	--	--	--	--	--	2.42 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	12/30/21	--	1900	--	100000	--	--	ND(500)	--	59J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	12/07/21	--	1600	--	160000	--	--	140	ND(1000) R	--	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	--	--	--	--	5.32	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	--	--	--	--	--	5.34	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	--	--	--	--	--	4.74 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	--	--	--	--	--	5	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	12/30/21	--	1600	--	210000	--	--	ND(500)	--	64J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	--	--	--	--	5.62	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	--	--	--	--	--	7.13	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	--	--	--	--	--	7.14	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	--	--	--	--	--	7.27 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	--	--	--	42000	--	--	360	ND(1000) R	--	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	--	--	--	--	--	3.29 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	--	--	--	--	--	2.18 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	--	--	--	--	--	2.3 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	--	--	--	26000	--	--	510	ND(1000) R	--	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	--	--	--	150000	--	--	ND(500)	--	84J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-54	03/23/22	--	--	--	--	--	5.27 J-	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	--	--	--	--	--	5.61	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	--	--	--	--	--	5.33	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	--	--	--	--	--	5.83	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	--	--	--	160000	--	--	ND(500)	--	120J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-55	03/23/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	--	--	--	--	--	5.29	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	--	--	--	--	--	6.38	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	--	--	--	--	--	6.45	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	--	--	--	490000	--	--	ND(500)	--	78J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-56	03/23/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	--	--	--	--	--	8.01	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	--	--	--	--	--	3.73 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	--	--	--	--	--	5.84	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	12/07/21	--	1200	--	320000	--	--	ND(500)	ND(1000) R	--	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	--	--	--	--	7.56 J-	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	--	--	--	--	--	13.4	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	--	--	--	--	--	10.1	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	--	--	--	--	--	10.8	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	--	--	--	230000	--	--	ND(500)	--	98J/ND(500)U*	--	ND(500)	--	--
Eastern Boundary Wells	OW-70	03/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	--	--	--	--	--	4.04 J	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
	Cleanup Levels		600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Deep Monitoring Wells	OW-01	12/08/21	140000	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	03/15/22	--	0.022J/ND(0.064)U*	0.041J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	06/15/22	--	0.027J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	09/27/22	--	0.031J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-01	12/22/22	--	0.028JB/E/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/08/21	190000	0.049J/ND(0.064)U*	0.015 J	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	03/08/22	--	0.08	0.042J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	06/08/22	--	0.12 JB	0.012 J	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	09/27/22	--	0.068 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-10	12/22/22	--	0.069BE/ND(0.069)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	09/18/18	1000000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	08/20/19	940000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	09/20/20	940000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	09/30/21	1100000	0.025J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Deep Monitoring Wells	OW-12	09/19/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	09/17/20	--	ND(0.07) UJ	0.37	--	ND(600) UJ	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	09/30/21	160000	0.034J/ND(0.064)U*	0.12	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-12	2Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Deep Monitoring Wells	OW-12	12/07/22	--	0.022JB/ND(0.064)U*	1	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	12/07/21	140000	0.042J/ND(0.064)U*	0.11 JB	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	03/23/22	--	0.036J/ND(0.064)U*	0.15 JB	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	06/09/22	--	0.039J/ND(0.064)U*	0.11	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	09/07/22	--	0.076ND(0.076)U*	0.1	--	ND(80)	--	--	--	--	--	--	--	--
Deep Monitoring Wells	OW-13	12/28/22	--	0.061JB/ND(0.064)U*	0.098	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/22/21	120000	1.9	8.5	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	03/22/22	--	2.4	5.2 J-	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	06/28/22	--	2 J+	2.8 J+	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	09/15/22	--	1.9	3.6 J+	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-12A	12/07/22	--	5.8	14 J+	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	12/30/21	1600 J	3	41	--	94	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	03/24/22	--	3.7	61	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	06/30/22	--	2.5 J+	61	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	09/30/22	--	3.1 J+	53	--	170	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-14	12/29/22	--	3.4 J+	57	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	12/07/21	51000	0.41	2.8	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	03/08/22	--	0.42	3	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	06/09/22	--	0.4	2.6	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	09/07/22	--	0.44ND(0.44)U*	2.6	--	68J/ND(80)U*	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-29	12/27/22	--	0.43 JB	2.7 J-	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	12/30/21	34000	0.99	1.3	--	78 J	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	03/24/22	--	0.74	1.4	--	110 JB	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	06/30/22	--	2.6 J+	1.2	--	56J/ND(80)U*	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	09/30/22	--	7.9 J+	0.9	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-30	12/29/22	--	2 J+	0.94	--	110	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/07/21	130000	0.021J/ND(0.064)U*	0.049J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	03/08/22	--	0.03J/ND(0.064)U*	0.085 JB	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	06/09/22	--	0.046J/ND(0.064)U*	0.051	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	09/07/22	--	0.065ND(0.065)U*	0.055	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-50	12/27/22	--	0.023JB/ND(0.064)U*	0.062 J-	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/07/21	140000	ND(0.064)	0.012J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	03/08/22	--	0.026J/ND(0.064)U*	0.049J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	06/09/22	--	0.31	0.0094 J	--	720	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	09/07/22	--	0.029J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-52	12/27/22	--	0.045JB/ND(0.064)U*	ND(0.05) UJ	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-53	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Eastern Boundary Wells	OW-54	12/29/21	23000	2.1	1.4	--	140	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	03/23/22	--	2.2 J+	2	--	130	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	06/15/22	--	2.2 J+	1.7	--	1100	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	09/07/22	--	2 JB	1.3	--	120/ND(120)U*	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-54	12/27/22	--	2.2	1.4 J-	--	160	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/29/21	ND(2500)	3.8	23	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	03/23/22	--	3.6 J+	25	--	84	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	06/15/22	--	3.9 J+	23	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	09/07/22	--	4.5 JB	20	--	ND(400)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-55	12/27/22	--	4.4	27 J-	--	ND(160)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/23/21	9700	0.66	0.76	--	72J/ND(110)U*	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	03/23/22	--	1.1 J+	0.5	--	240 J+	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	06/15/22	--	1.1 J+	0.45 J+	--	64 J	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	09/07/22	--	--	0.27 J+	--	--	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-56	12/28/22	--	0.82 JB	0.22 J+	--	150	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	12/07/21	ND(2500)	3.3	85	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	03/23/22	--	6.6 J+	130	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	06/15/22	--	5.1 J+	85	--	ND(800)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	09/07/22	--	7.1 J+	170	--	ND(400)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-66	12/27/22	--	6.9	240 J-	--	ND(160)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/22/21	8400	1.2	0.65	--	61 J	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	03/22/22	--	1.1	0.67 J-	--	67 J	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	06/28/22	--	0.97 J+	0.38 J+	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	09/15/22	--	0.94	0.39 J+	--	ND(80)	--	--	--	--	--	--	--	--
Eastern Boundary Wells	OW-70	12/14/22	--	0.95 JB	0.2 J+	--	ND(80)	--	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
	Cleanup Levels		30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Evaporation Ponds	EP-2	12/21/20	39800	ND(100000)	644000	3250000	--	--	ND(100000)	--	280 J	280	ND(100) UJ	--	103 J-
Evaporation Ponds	EP-2	06/21/21	75000	3600	842000	3600000	17000	--	16000	--	210 J	--	ND(2000)	ND(2500)	--
Evaporation Ponds	EP-2	12/15/21	<26400 UJ	2500	437000	3800000	--	--	16000	--	ND(1000)	--	ND(1000)	--	--
Evaporation Ponds	EP-2	06/24/22	--	--	810000	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	09/09/22	46000 JB	--	464000	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	47100	ND(500000)	376000	7190000	--	--	ND(500000)	--	98 J	98	ND(100) UJ	--	97 J-
Evaporation Ponds	EP-3	06/21/21	<8100 UJ	17000	2750000	40000000	180000	--	18000	ND(40000) R	--	--	--	ND(2500)	--
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	40000	ND(500000)	336000	9130000	--	--	ND(500000)	--	ND(50) UJ	ND(50)	ND(100) UJ	--	ND(50) UJ
Evaporation Ponds	EP-4	06/21/21	<29100 UJ	17000	2390000	26000000	130000	--	22000	ND(40000) R	--	--	--	ND(2500)	--
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	12400	ND(500000)	217000	8970000	--	--	ND(500000)	--	ND(50) UJ	ND(50)	ND(100) UJ	--	253 J-
Evaporation Ponds	EP-5	06/21/21	37000 J	10000	3480000	18000000	86000	--	22000	--	ND(500)	--	590 J	ND(2500)	--
Evaporation Ponds	EP-5	12/15/21	94000	25000	4260000	65000000	--	--	27000	ND(100000) R	--	--	--	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	2350	ND(500000)	222000	10400000	--	--	ND(500000)	--	ND(50) UJ	ND(50)	ND(100) UJ	--	ND(50) UJ
Evaporation Ponds	EP-6	06/21/21	14000	6600	996000	11000000	51000	--	14000	--	260 J	--	ND(2000)	ND(2500)	--
Evaporation Ponds	EP-6	12/15/21	15000	6700	1550000	18000000	--	--	18000	--	ND(1000)	--	ND(10000)	--	--
Evaporation Ponds	EP-6	06/24/22	50000	--	4520000	--	--	4.4 J	--	--	--	--	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	14700	ND(500000)	2410000	171000000	--	--	ND(500000)	--	ND(50) UJ	ND(50)	ND(100) UJ	--	ND(50) UJ
Evaporation Ponds	EP-7	06/21/21	25000	220000	12800000	200000000	620000	--	140000	ND(200000) R	--	--	--	ND(10000)	--
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	23800	ND(500000)	3060000	201000000	--	--	ND(500000)	--	68 J	68 J	ND(100) UJ	--	ND(50)
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	51000	520000	126000000	220000000	--	--	30000	--	ND(10000)	--	--	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	11400	ND(500000)	2220000	183000000	--	--	ND(500000)	--	ND(50) UJ	ND(50)	ND(100) UJ	--	ND(50) UJ
Evaporation Ponds	EP-9	06/21/21	39000	270000	13500000	160000000	650000	--	150000	ND(100000) R	--	--	--	ND(10000)	--
Evaporation Ponds	EP-9	12/15/21	70000	590000	13100000	280000000	--	--	36000 J	--	ND(100000)	--	--	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	45300	ND(500000)	3430000	16800000	--	--	ND(500000)	--	97 J	97 J	ND(100) UJ	--	ND(50)
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	49000	ND(500000)	528000	198000000	--	--	ND(500000)	--	35600 J	35600 J-	ND(100) UJ	--	105
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	46400	ND(500000)	484000	10700000	--	--	ND(500000)	--	215 J	215 J-	ND(100) UJ	--	ND(50)
Evaporation Ponds	EP-12B	06/21/21	95000	15000	4190000	24000000	110000	--	18000	ND(20000) R	--	--	--	ND(2500)	--
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	<46800 UJ	--	277000	--	--	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	03/18/22	<37880	--	194000	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	--	234000	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	>67560 J-	--	190000 JB	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	400000 J-	--	152000	--	--	ND(5)	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	01/12/23	--	--	--	--	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	--	ND(500)	--	48000	--	ND(5)	800	--	49	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-1	12/06/18	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	08/12/19	--	ND(500)	--	47000	--	ND(5)	730	--	ND(500)	--	ND(500)	--	ND(2500)
Land Treatment Unit Wells	MW-1	09/22/20	--	ND(500)	--	48000	--	ND(10)	630	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-1	09/29/21	--	110	--	49000	--	--	510	--	34J/ND(100)U*	--	ND(100)	ND(500)	--
Land Treatment Unit Wells	MW-1	09/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	--	150	--	56000	--	ND(5)	870	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-2	12/06/18	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	08/13/19	--	ND(500)	--	54000	--	ND(5)	740	--	ND(500)	--	ND(500)	--	ND(2500)
Land Treatment Unit Wells	MW-2	09/18/20	--	ND(500)	--	55000	--	ND(10)	840	ND(1000)	--	--	--	ND(2500) UJ	--
Land Treatment Unit Wells	MW-2	09/17/21	--	--	--	56000	--	ND(5)	860	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-2	09/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	--	ND(500)	--	16000	--	ND(5)	420	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-4	12/06/18	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	08/13/19	--	ND(500)	--	16000	--	ND(5)	340	--	--	ND(1000)	--	--	ND(2500)
Land Treatment Unit Wells	MW-4	09/18/20	--	ND(500) UJ	--	16000 J	--	ND(10) UJ	300 J	--	ND(500) UJ	--	ND(500) UJ	ND(2500) UJ	--
Land Treatment Unit Wells	MW-4	09/17/21	--	--	--	16000	--	ND(5)	400 J	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-4	09/30/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	--	ND(500)	--	63000	--	ND(10)	700	--	ND(500)	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	MW-5	12/06/18	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	08/14/19	--	ND(500)	--	60000	--	ND(5)	770	--	ND(500)	--	ND(500)	--	ND(2500)
Land Treatment Unit Wells	MW-5	09/21/20	--	86 J	--	54000	--	ND(10)	600	--	ND(100)	--	ND(100)	ND(500)	--
Land Treatment Unit Wells	MW-5	09/29/21	--	100	--	57000	--	--	680	--	19J/ND(100)U*	--	ND(100)	ND(500)	--
Land Treatment Unit Wells	MW-5	09/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	--	--	--	4900000	--	--	ND(500)	--	170J/ND(500)U*	--	ND(500)	--	--
Land Treatment Unit Wells	OW-67	12/23/21	--	2900	--	5200000	--	30.1	ND(500)	--	ND(500)	--	94 J	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	--	--	--	--	41.2	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	--	--	--	--	--	37.3	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	--	--	--	--	--	31.4	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	--	--	--	5100000	--	--	6400	--	330J/ND(500)U*	--	140 J	--	--
Land Treatment Unit Wells	OW-68	12/23/21	--	2000	--	4200000	--	30.1	11000	--	2700	--	ND(2000)	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
	Cleanup Levels		600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Evaporation Ponds	EP-2	12/21/20	656000	--	--	--	--	6220000	327000	7130000	--	--	--	0.0000898	19.7 J
Evaporation Ponds	EP-2	06/21/21	1300000	--	--	--	--	--	--	--	--	144	7.81 J	--	--
Evaporation Ponds	EP-2	12/15/21	1500000	--	--	--	--	--	--	--	--	443	--	--	--
Evaporation Ponds	EP-2	06/24/22	--	0.045J/ND(0.064)U*	0.0096J/ND(0.05)U*	--	ND(80) R	--	--	--	10	--	--	--	--
Evaporation Ponds	EP-2	09/09/22	--	0.28 JB	0.0094 J	--	110 J	--	--	--	52	--	--	--	--
Evaporation Ponds	EP-2	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	12/21/20	1740000	--	--	--	--	13900000	353000	14500000	--	--	--	0.0000441	19.6 J
Evaporation Ponds	EP-3	06/21/21	12000000	--	--	--	--	--	--	--	--	10	7.37 J	--	--
Evaporation Ponds	EP-3	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-3	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-4	12/21/20	2890000	--	--	--	--	17900000	183000	18100000	--	--	--	0.0000354	19.5 J
Evaporation Ponds	EP-4	06/21/21	10000000	--	--	--	--	--	--	--	--	20	7.16 J	--	--
Evaporation Ponds	EP-4	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-4	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-5	12/21/20	3570000	--	--	--	--	19000000	97100	19000000	--	--	--	0.0000336	19.6 J
Evaporation Ponds	EP-5	06/21/21	8700000	--	--	--	--	--	--	--	--	10	7.32 J	--	--
Evaporation Ponds	EP-5	12/15/21	19000000	--	--	--	--	--	--	--	--	ND(10)	--	--	--
Evaporation Ponds	EP-5	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-6	12/21/20	3960000	--	--	--	--	18900000	57000	18300000	--	--	--	0.0000349	19.4 J
Evaporation Ponds	EP-6	06/21/21	5000000	--	--	--	--	--	--	--	--	ND(10)	7.39 J	--	--
Evaporation Ponds	EP-6	12/15/21	8600000	--	--	--	--	--	--	--	--	ND(1)	--	--	--
Evaporation Ponds	EP-6	06/24/22	--	0.9 J+	ND(0.05)	--	58 J	--	--	--	ND(10)	--	--	--	--
Evaporation Ponds	EP-6	4Q2022	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	12/21/20	14000000	--	--	--	--	283000000 J	3270000	263000000	--	--	--	ND(0.00004)	19.5 J
Evaporation Ponds	EP-7	06/21/21	45000000	--	--	--	--	--	--	--	--	ND(10)	7.28 J	--	--
Evaporation Ponds	EP-7	4Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-7	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-8	12/22/20	12400000	--	--	--	--	309000000 J	4180000	283000000	--	--	--	ND(0.00004)	20.3 J
Evaporation Ponds	EP-8	2Q2021	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA	NS - UTA
Evaporation Ponds	EP-8	12/28/21	37000000	--	--	--	--	--	--	--	--	ND(10)	--	--	--
Evaporation Ponds	EP-8	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-9	12/21/20	13100000	--	--	--	--	300000000 J	1760000	278000000	--	--	--	ND(0.00004)	19.7 J
Evaporation Ponds	EP-9	06/21/21	39000000	--	--	--	--	--	--	--	--	ND(10)	7.27 J	--	--
Evaporation Ponds	EP-9	12/15/21	36000000	--	--	--	--	--	--	--	--	ND(10)	--	--	--
Evaporation Ponds	EP-9	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	12/22/20	6130000	--	--	--	--	312000000 J	1010000	282000000	--	--	--	ND(0.00004)	20.3 J
Evaporation Ponds	EP-11	2Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-11	4Q2021	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA	NS- UTA
Evaporation Ponds	EP-11	2Q2022 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12A	12/22/20	15300000	--	--	--	--	34400000	1280000	32200000	--	--	--	0.0000199	19.4 J
Evaporation Ponds	EP-12A	2Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	EP-12B	12/22/20	4140000	--	--	--	--	19700000	270000	19300000	--	--	--	0.0000332	19.4 J
Evaporation Ponds	EP-12B	06/21/21	9400000	--	--	--	--	--	--	--	--	ND(10)	7.2 J	--	--
Evaporation Ponds	EP-12B	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Evaporation Ponds	STP-1 to EP-2	12/15/21	--	0.25	0.013 J	--	290	2300000 J	100000	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	03/18/22	--	0.59	0.044J/ND(0.05)U*	--	740	--	--	--	19863	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	06/24/22	--	0.04J/ND(0.064)U*	--	--	ND(0.05)	--	--	--	ND(80) UJ	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	09/09/22	--	0.18 JB	ND(0.05)	--	110 J	--	--	--	ND(10)	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	12/29/22	--	0.65 JB	ND(0.05)	--	760	--	--	--	--	--	--	--	--
Evaporation Ponds	STP-1 to EP-2	01/12/23	--	--	--	--	--	--	--	--	ND(10) J	--	--	--	--
Land Treatment Unit Wells	MW-1	09/13/18	160000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	12/06/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	08/12/19	170000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/22/20	160000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/21	150000	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-1	09/29/22	--	0.017J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/13/18	170000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	12/06/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	08/13/19	170000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/18/20	170000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/17/21	180000	0.018 J	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-2	09/29/22	--	0.038J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/13/18	150000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	12/06/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	08/13/19	160000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/18/20	160000 J	ND(0.07) UJ	ND(0.05) UJ	--	ND(600) UJ	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/17/21	160000	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-4	09/30/22	--	0.02J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/17/18	170000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	12/06/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	08/14/19	180000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/21/20	150000	ND(0.07) UJ	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/21	160000	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	MW-5	09/29/22	--	1.1	ND(0.05)	--	500	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/17/21	760000 J	0.56	0.41	--	64 J	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	12/23/21	590000	0.61	0.66	--	90 JB	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	06/16/22	--	0.77	0.27 J+	--	970	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	09/20/22	--	0.73 J+	0.12 J+	--	ND(80) UJ	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-67	12/28/22	--	0.67 JB	0.077 J+	--	60 J	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	09/17/21	800000 J	1.1	1.7	--	120	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	12/23/21	660000	1.5	2.1	--	88 JB	--	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
	Cleanup Levels		30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Land Treatment Unit Wells	OW-68	06/16/22	--	--	--	--	--	18.5	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	09/20/22	--	--	--	--	--	11.5	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	--	--	--	--	--	11.9	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	--	2300	--	2900000	--	--	ND(500)	--	ND(500)	--	ND(2000)	ND(2500)	--
Land Treatment Unit Wells	SMW-2	08/22/19	--	2800	--	2900000	--	37.4	93	--	ND(500)	--	3300	--	ND(2500)
Land Treatment Unit Wells	SMW-2	09/19/20	--	2800	--	2700000	--	33.7	ND(500)	--	ND(500)	--	ND(2000)	ND(2500)	--
Land Treatment Unit Wells	SMW-2	09/30/21	--	3100	--	3000000	--	--	ND(100)	--	140 JB	--	ND(2000)	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	--	--	--	--	28.4	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	--	210	--	59000	--	ND(5)	970	--	120	--	ND(500)	ND(2500)	--
Land Treatment Unit Wells	SMW-4	12/06/18	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	08/13/19	--	ND(500)	--	59000	--	ND(5)	1000	--	110	--	ND(500)	--	ND(2500)
Land Treatment Unit Wells	SMW-4	09/20/20	--	120	--	50000	--	ND(10)	770	--	34 J	--	ND(100)	ND(500)	--
Land Treatment Unit Wells	SMW-4	09/29/21	--	150	--	55000	--	ND(5)	900	--	60J/ND(100)U*	--	ND(100)	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	--	--	--	1000000	--	--	450 J	--	ND(500)	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	--	--	--	1900000	--	--	ND(100)	--	71J/ND(100)U*	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	--	--	--	--	12.9 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	--	--	--	240000	--	--	280 J	--	66J/ND(500)U*	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	--	--	--	--	8.01 J-	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	--	--	--	870000	--	--	660	--	ND(500)	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	--	--	--	1800000	--	--	580	--	86J/ND(500)U*	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	--	--	--	83000	--	--	1700	--	860	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	--	--	--	80000	--	ND(5)	--	--	590	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	--	--	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	--	--	--	180000	--	--	720	--	ND(500)	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	--	--	--	310000	--	--	530	--	120J/ND(500)U*	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	--	--	--	1300000	--	--	ND(100)	--	170 JB	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	--	--	--	770000	--	--	ND(500)	ND(1000) R	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	--	--	--	--	8.96 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	--	--	--	2400000	--	--	2000	--	520	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	--	--	--	--	11.8 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	--	--	--	--	16.3	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	--	--	--	--	7.99	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	--	--	--	--	6.14	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	--	--	--	860000	--	--	930	--	120J/ND(500)U*	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	--	--	--	--	7.86	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	--	--	--	2000000	--	--	480	--	370	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	--	--	--	--	7.41	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	--	--	--	--	6.31	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	--	--	--	--	6.02	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
	Cleanup Levels		600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Land Treatment Unit Wells	OW-68	06/16/22	--	1.4	0.95 J+	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	09/20/22	--	1.5 J+	0.84 J+	--	76 J+	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	OW-68	12/28/22	--	1.7 J+	0.85 J+	--	120	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/18/18	1500000	--	ND(1)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	08/22/19	1400000	1.1	0.21	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/19/20	1200000	0.1 J-	0.57	--	ND(600) UJ	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/21	1300000	0.38 JB	0.74	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-2	09/30/22	--	0.34 JB	0.11 J+	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/12/18	160000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	12/06/18	--	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	08/13/19	170000	--	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/20/20	140000	ND(0.07) UJ	ND(0.05)	--	ND(600) UJ	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/21	150000	--	ND(0.064)	--	ND(80)	--	--	--	--	--	--	--	--
Land Treatment Unit Wells	SMW-4	09/29/22	--	0.022J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	12/22/21	ND(2500)	1.4	23	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	03/17/22	--	1.3	21	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-01R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-02R	12/16/21	660000	0.19	0.54 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	03/16/22	--	0.24 JB	0.63 J	--	ND(80)	--	160000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-02R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-03	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-04R	12/22/21	92000	1.2	2.1	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	03/15/22	--	1.5 J+	3.7	--	ND(80)	--	540000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-04R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-05	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-06	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-07	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-08	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-09	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-10	12/16/21	ND(2500)	2.3	37 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	03/15/22	--	1.9 J+	41	--	ND(80)	--	270000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-10	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-11	12/16/21	15000	0.77	12 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	03/15/22	--	0.92 J+	19	--	ND(80)	--	90000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	06/21/22	--	1.3 J+	14	--	820	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-11	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-12	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-13	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-14	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-15	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-16	12/28/21	46000	0.35	0.061	--	230	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	03/23/22	--	--	0.8	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	06/21/22	--	--	0.3	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	09/15/22	28000	--	0.93	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-16	12/06/22	--	--	2.1 J+	--	--	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	12/21/21	4900	1.8	28	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	03/15/22	--	7 J+	78	--	ND(800)	--	80000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-17R	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-18R	12/21/21	ND(2500)	4.4	6.7	--	ND(800)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	03/15/22	--	4 J+	7.2	--	ND(800)	--	360000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	06/21/22	--	3.5 J+	10	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	09/13/22	--	3.1 J+	8.1	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-18R	12/06/22	--	2.5	8.4	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-19	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-20	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-21	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Marketing Tank Farm Wells	MKTF-22	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-23	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-24	12/16/21	13000	0.67	12 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	03/16/22	--	0.87	--	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-24	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-25	12/17/21	62000	0.6	3.3	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	03/16/22	--	0.36	0.97 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-25	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-26	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-27	12/14/21	140000	0.12	0.021 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	03/17/22	--	0.36	0.054 JB	--	160	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	06/24/22	--	0.19 JB	0.046J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	09/14/22	--	0.2 JB	0.03 J	--	68J/ND(80)U*	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-27	12/08/22	--	0.17 JB	0.034 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/14/21	170000	0.15	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	03/17/22	--	0.17 JB	0.039J/ND(0.05)U*	--	56 J	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	06/24/22	--	0.19 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	09/14/22	--	0.16 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-28	12/08/22	--	0.2 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	12/14/21	79000	0.34	0.029 J	--	55 J	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	03/17/22	--	0.38	0.058 JB	--	ND(80)	--	22000	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	06/28/22	--	0.57 J+	0.025J/ND(0.05)U*	--	570 J	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-29	09/14/22	--	1.2 J+	0.02 J	--	840/ND(840)U*	--	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
	Cleanup Levels		30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	--	--	--	670000	--	--	2800	--	ND(500)	--	98 J	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	--	--	--	--	2.91 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	--	--	--	500000	--	--	ND(100)	--	ND(100)	--	ND(2000)	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	--	--	--	--	9.64 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	--	--	--	--	8.3	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	--	--	--	--	12.4	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	--	--	--	--	5.99	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	--	--	--	340000	--	--	300	--	ND(100)	--	ND(100)	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	--	--	--	--	2.03 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	--	--	--	240000	--	--	480	--	5700	--	ND(100)	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	--	--	--	380000	--	--	700	--	110J/ND(500)U*	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	--	--	--	220000	--	--	800	--	2000	--	ND(100)	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	--	--	--	3300000	--	--	ND(500)	ND(4000) R	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	--	--	--	--	8.39 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	--	--	--	--	12.8	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	--	--	--	--	13.1	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	--	--	--	--	11.5 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	--	--	--	740000	--	--	450 J	--	5100	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	--	--	--	--	4.04 J	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	--	--	--	--	5.13	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	--	--	--	--	ND(10)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	--	--	--	890000	--	--	1000	--	ND(500)	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	--	--	--	--	6.93	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	--	--	--	15000000	--	--	ND(500)	ND(10000) R	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	--	--	--	150000	--	--	380 J	--	890	--	ND(500)	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	--	--	--	350000	--	--	390	--	970	--	ND(100)	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	--	--	--	--	ND(10)	--	--	--	--	ND(100)	--	--
Production Wells	PW-3	03/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Production Wells	PW-3	06/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Production Wells	PW-3	09/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Production Wells	PW-3	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Production Wells	PW-4	12/28/21	--	--	--	--	--	ND(5)	--	--	--	--	ND(100)	--	--
Production Wells	PW-4	03/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Production Wells	PW-4	06/14/22	--	--	--	--	--	14.2	--	--	--	--	--	--	--
Production Wells	PW-4	09/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
Cleanup Levels			600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Marketing Tank Farm Wells	MKTF-29	12/08/22	--	0.31 JB	0.023 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/14/21	630000	0.11	0.05 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	03/17/22	--	0.13 JB	0.066 JB	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	06/28/22	--	0.11 JB	0.022J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	09/14/22	--	0.15 JB	0.028 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-30	12/15/22	--	0.33 JB	0.02 J	--	98	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/16/21	61000	0.22	0.43 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	03/16/22	--	0.29 JB	0.55 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	06/22/22	--	0.21 JB	0.36	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	09/13/22	--	0.26 JB	0.48	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-31	12/08/22	--	0.23 JB	0.36	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/09/21	78000	0.22 J	0.93	--	ND(130)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	03/09/22	--	0.23 JB	1.1	--	ND(80)	--	91000 J	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	06/16/22	--	1.2	0.97	--	1200	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	09/27/22	--	0.21 JB	0.74	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-32	12/29/22	--	0.19 JB	0.76	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-33	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-34	12/09/21	310000	0.15 JB	0.48	--	ND(130)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	03/09/22	--	0.19 JB	1.1	--	200	--	27000 J	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-34	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-35	12/21/21	ND(2500)	1.6	29	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	03/10/22	--	2	43	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	06/21/22	--	3.2 J+	64 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-35	3Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-36	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-37	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-38	12/21/21	510000	0.15 JB	0.024 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	03/15/22	--	0.11 JB	0.047J/ND(0.05)U*	--	66 J	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	06/21/22	--	0.22 J+	0.034 J	--	240	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	09/13/22	--	0.73 J+	0.35 J+	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-38	12/06/22	--	0.43 JB	0.29 J+	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-39	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-40	12/17/21	500000	0.044J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	03/16/22	--	0.058J/ND(0.064)U*	0.038J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	06/22/22	--	0.053J/ND(0.064)U*	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	09/13/22	--	0.05JE/ND(0.064)U*	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-40	12/08/22	--	0.067B/ND(0.067)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/09/21	63000	1.6	0.082 JB	--	ND(130)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	03/09/22	--	1.7	0.085 JB	--	ND(80)	--	ND(4000) UJ	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	06/16/22	--	1.9	0.038 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	09/27/22	--	1.9 J+	0.014 J	--	61 J	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-41	12/29/22	--	1 JB	ND(0.05)	--	110	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	12/09/21	100000	26	0.5	--	ND(4000)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	03/09/22	--	23	0.21 JB	--	ND(1600)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-42	2Q2022 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-43	12/08/21	1600000	0.16 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	03/08/22	--	0.13	0.039J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	06/16/22	--	0.15 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	09/27/22	--	0.1 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-43	12/22/22	--	0.13 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/23/21	120000	0.018J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	03/24/22	--	0.028J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	06/29/22	--	0.042J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	09/27/22	--	0.048J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-44	12/22/22	--	0.024JBE/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-45	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-46	12/09/21	310000	0.17 JB	0.04J/ND(0.05)U*	--	ND(140)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	03/10/22	--	0.042J/ND(0.064)U*	0.061/ND(0.061)U*	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	06/21/22	--	0.07 JB	0.016 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	09/13/22	--	0.068 JB	0.025 J	--	ND(80) UJ	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-46	12/06/22	--	0.051JB/ND(0.064)U*	0.033 J	--	ND(80)	--	--	--	--	--	--	--	--
Marketing Tank Farm Wells	MKTF-47	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-48	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-49	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Marketing Tank Farm Wells	MKTF-50	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Production Wells	PW-3	12/16/21	--	ND(0.064)	0.014 J+	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-3	03/09/22	--	0.03J/ND(0.064)U*	0.041J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-3	06/14/22	--	0.036J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-3	09/08/22	--	0.058JE/ND(0.064)U*	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--
Production Wells	PW-3	12/06/22	--	0.019JB/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-4	12/28/21	--	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-4	03/09/22	--	0.022J/ND(0.064)U*	0.042J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-4	06/14/22	--	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Production Wells	PW-4	09/08/22	--	0.049JE/ND(0.064)U*	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
Cleanup Levels			30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	--	--	--	360000	--	--	420	--	390	--	ND(100)	ND(500)	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	--	--	--	--	12.1	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	--	--	--	--	12.9	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	--	--	--	--	11.4	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	--	--	--	--	7.04	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	--	--	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/18/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	--	--	--	--	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	--	--	--	300000	--	--	1400	--	63 J	--	ND(500)	ND(2500)	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	--	--	--	--	12.3	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	--	--	--	--	14	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	--	--	--	--	17.1	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	--	--	--	--	13	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	--	--	--	360000	--	--	590	--	330	--	ND(100)	ND(500)	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	--	--	--	--	9.35	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	--	--	--	--	12.6	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	--	--	--	--	8.56	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	--	--	--	--	10.1	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	--	--	--	1400000	--	79.5	1800	--	ND(500)	--	ND(500)	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	--	--	--	--	67.9	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	--	--	--	--	64	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	--	--	--	--	42.9	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	--	--	--	--	75.1	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	--	--	--	2100000	--	--	ND(500)	--	320J/ND(500)U*	--	76 J	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	--	--	--	--	19.1 J-	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	--	--	--	--	19.3	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	--	--	--	--	18.9	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	--	--	--	--	19.4	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	--	--	--	1700000	--	--	290 J	19000 J-	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	--	--	--	--	9.28 J-	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	--	--	--	--	11.5	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	--	--	--	--	6.39	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	--	--	--	--	7.1	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	--	--	--	2200000	--	--	ND(2000)	--	25000	--	ND(2000)	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	--	--	--	--	55	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	--	--	--	--	55.6	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	--	--	--	--	55	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	--	--	--	--	53.8	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	--	--	--	98000	--	--	480 J	--	68 J	--	ND(500)	--	--
Tank Farm Wells	OW-57	03/10/22	--	--	--	--	--	ND(5) UJ	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	06/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	09/15/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	12/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/21	--	--	--	190000	--	--	ND(500)	--	110 J	--	ND(500)	--	--
Tank Farm Wells	OW-58	03/10/22	--	--	--	--	--	5.15 J-	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	06/29/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	09/20/22	--	--	--	--	--	5.7	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	12/14/21	--	--	--	160000	--	--	ND(500)	--	ND(500)	--	ND(500)	--	--
Tank Farm Wells	OW-58A	03/10/22	--	--	--	--	--	5.27 J-	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	06/29/22	--	--	--	--	--	5.19	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	09/20/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	--	--	--	94000	--	--	600	ND(1000) R	--	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	--	--	--	--	--	7.73 J-	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	06/08/22	--	--	--	--	--	11.2	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	09/20/22	--	--	--	--	--	12	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	12/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/29/21	--	--	--	26000	--	--	4300	--	ND(500)	--	ND(500)	--	--
Tank Farm Wells	OW-64	03/24/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	06/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	09/20/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/07/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
Cleanup Levels			600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Solid Waste Management Unit 1 Wells	GWM-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	GWM-2	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	GWM-3	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	KA-3	12/14/21	41000	0.57	0.2	--	86	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	03/22/22	--	0.56	0.31 JB	--	88	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	06/24/22	--	1.2 J+	0.15 JB	--	910	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	09/14/22	--	0.61 J+	0.12 J+	--	110/ND(110)U*	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	KA-3	12/14/22	--	0.57 JB	0.071	--	78 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/17/21	--	2.9	0.95	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	03/19/22	--	3.1	1.3	--	ND(800)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	06/14/22	--	3.6 J+	0.41 J+	--	61 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	09/08/22	--	3.3 J+	0.35 J+	--	210 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - East	12/06/22	--	2.8	0.52 J+	--	130	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/17/21	--	1.6	0.2	--	ND(81)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	2.4 J+	0.27 JB	--	120 J+	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	03/18/22	--	2	0.28 JB	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	06/14/22	--	2.3 J+	0.05 J	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	09/08/22	--	3 J+	0.055	--	73 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	LDU - West	12/06/22	--	2.9	0.31 J+	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/21	ND(2500)	2	0.34	--	120	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	03/22/22	--	2.4 J+	3.5 J-	--	160 J+	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	06/24/22	--	1.7 J+	4.2 J	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	09/14/22	--	2.7 J+	4.1 J+	--	140/ND(140)U*	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-2	12/14/22	--	2.5	3.6	--	190	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/21	4100	0.76	0.41	--	94	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	03/22/22	--	0.65 J+	0.69 J-	--	91 J+	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	06/24/22	--	0.54 J+	0.9 J+	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	09/14/22	--	0.86 J+	0.47 J+	--	86/ND(86)U*	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	NAPIS-3	12/14/22	--	0.79 JB	0.2 J+	--	70 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/14/21	11000	6.5	0.5	--	950	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	03/22/22	--	7 J+	0.56 J-	--	960 J+	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	06/28/22	--	6 J+	0.48 J+	--	670	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	09/14/22	--	7.3 J+	0.34	--	1000 JB	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OAPIS-1	12/15/22	--	8.3	0.44 J+	--	1000	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	Oil Sump LDU	4Q2021	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Solid Waste Management Unit 1 Wells	Oil Sump LDU	1Q2022 - 4Q2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Solid Waste Management Unit 1 Wells	OW-59	12/23/21	2100000	0.37	2	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	03/23/22	--	0.49 J+	2.3	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	06/15/22	--	0.58 J+	0.35 J+	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	09/30/22	--	0.39 JB	0.28 J+	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-59	12/28/22	--	0.5 JB	0.26 J+	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/07/21	670000	0.066 JB	0.023J/ND(0.05)U*	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	03/23/22	--	0.092 JB	0.066 JB	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	06/16/22	--	0.082 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	09/20/22	--	0.097 JB	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	OW-60	12/28/22	--	0.15 JB	ND(0.05)	--	120	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/14/21	150000	0.17	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	03/24/22	--	0.19 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	06/28/22	--	0.17 JB	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	09/20/22	--	0.16 JB	ND(0.05)	--	ND(80) UJ	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-NW	12/15/22	--	0.2 JB	ND(0.05)	--	74 J	--	--	--	--	--	--	--	--
Solid Waste Management Unit 1 Wells	STP1-SW	4Q2021 - 4Q2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Tank Farm Wells	OW-57	12/14/21	ND(2500)	4.6	26	--	ND(800)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	03/10/22	--	5.4	27	--	ND(800)	--	29000	--	--	--	--	--	--
Tank Farm Wells	OW-57	06/29/22	--	4.7 J+	34	--	ND(800)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	09/15/22	--	6.2	30	--	ND(160)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-57	12/07/22	--	5 J	27	--	ND(800) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/21	ND(2500)	5.6	58	--	ND(800)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	03/10/22	--	6.5 J+	58	--	ND(800)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	06/29/22	--	5.9 J+	74	--	ND(800)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	09/20/22	--	7.3 J	67	--	ND(160) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58	12/14/22	--	5.8	70	--	ND(400)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	12/14/21	ND(2500)	3.7	23	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	03/10/22	--	4.2 J+	24	--	ND(800)	--	30000	--	--	--	--	--	--
Tank Farm Wells	OW-58A	06/29/22	--	3.2 J+	27	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	09/20/22	--	16 J	58 J+	--	ND(400) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-58A	4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-61	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-62	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	OW-63	12/17/21	ND(2500)	2.9	28	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	03/10/22	--	3.3 J+	28	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	06/08/22	--	3.5 J+	26	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	09/20/22	--	2.8 J	26	--	ND(80) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-63	12/07/22	--	2.8 J	26	--	ND(80) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/29/21	16000	0.41	1.1	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	03/24/22	--	0.54	0.66 J+	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	06/08/22	--	0.4 J+	0.53 J+	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	09/20/22	--	0.57 J	0.52 J+	--	ND(80) UJ	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-64	12/07/22	--	0.54 JB	0.47 J+	--	ND(80)	--	--	--	--	--	--	--	--
Tank Farm Wells	OW-65	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-1	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-2R	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-5	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Tank Farm Wells	RW-6	4Q2021 - 4Q2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Biochemical Oxygen Demand (ug/L)	Bromide (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Conductivity (umhos/cm)	Cyanide, Total (ug/L)	Fluoride, Total (ug/L)	Nitrate & Nitrite (ug/L)	Nitrogen, Nitrate (ug/L)	Nitrogen, Nitrate & Nitrite (ug/L)	Nitrogen, Nitrite (ug/L)	Ortho-Phosphate (ug/L)	Ortho-Phosphorus (ug/L)
	Cleanup Levels		30,000	NA	125,000	250,000	NA	1.46	1,600	NA	10,000	10,000	1,000	NA	NA
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	--	160	--	33000	--	--	2400	ND(1000)	--	--	--	ND(2500)	--
Western Boundary Wells	BW-1C	08/14/19	--	150	--	33000	--	--	2200	--	ND(500)	--	66	--	ND(2500)
Western Boundary Wells	BW-1C	09/20/20	--	ND(500)	--	34000	--	--	2500	--	ND(500)	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-1C	09/29/21	--	120	--	34000	--	--	2300	--	25J/ND(100)U*	--	ND(100)	ND(500)	--
Western Boundary Wells	BW-1C	09/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	09/12/18	--	430	--	38000	--	--	1000	ND(1000)	--	--	--	710	--
Western Boundary Wells	BW-2A	08/14/19	--	460	--	38000	--	--	1100	--	ND(500)	--	ND(500)	--	ND(2500)
Western Boundary Wells	BW-2A	09/20/20	--	500 J	--	39000	--	--	1200	--	100J/ND(500)U*	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-2A	09/29/21	--	540	--	38000	--	--	1300	--	90J/ND(500)U*	--	78 J	ND(2500)	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	--	740	--	31000	--	--	1700	--	ND(500)	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-2B	08/14/19	--	710	--	31000	--	--	1500	--	65	--	68	--	ND(2500)
Western Boundary Wells	BW-2B	09/21/20	--	620	--	29000	--	--	1600	--	630	--	ND(100)	ND(500)	--
Western Boundary Wells	BW-2B	09/29/21	--	590	--	32000	--	--	1500	--	ND(100)	--	ND(100)	ND(500)	--
Western Boundary Wells	BW-2B	09/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/18/18	--	140	--	48000	--	--	1700	400	--	--	--	910	--
Western Boundary Wells	BW-2C	08/14/19	--	ND(500)	--	46000	--	--	1800	--	ND(500)	--	ND(500)	--	ND(2500)
Western Boundary Wells	BW-2C	09/22/20	--	ND(500)	--	47000	--	--	1700	--	ND(500)	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-2C	09/29/21	--	ND(500)	--	48000	--	--	1700	--	51J/ND(500)U*	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-2C	09/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	--	450	--	31000	--	--	1300	--	63	--	ND(500)	1200	--
Western Boundary Wells	BW-3B	08/14/19	--	410	--	31000	--	--	1400	--	ND(500)	--	ND(500)	--	ND(2500)
Western Boundary Wells	BW-3B	09/21/20	--	420 J	--	30000	--	--	1200	--	ND(500)	--	ND(500)	1400 J	--
Western Boundary Wells	BW-3B	09/29/21	--	450 J	--	31000	--	--	1400	--	64J/ND(500)U*	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-3B	09/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/18/18	--	180	--	38000	--	--	1300	--	61	--	ND(500)	850	--
Western Boundary Wells	BW-3C	08/14/19	--	ND(500)	--	36000	--	--	1500	--	ND(500)	--	ND(500)	--	ND(2500)
Western Boundary Wells	BW-3C	09/22/20	--	ND(500)	--	37000	--	--	1200	--	ND(500)	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-3C	09/29/21	--	ND(500)	--	38000	--	--	1400	--	60J/ND(500)U*	--	ND(500)	ND(2500)	--
Western Boundary Wells	BW-3C	09/28/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	--	ND(500)	--	58000	--	--	940	--	340J/ND(500)U*	--	ND(500)	ND(2500) R	--
Western Boundary Wells	BW-4B	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	--	500	--	660000	--	--	45 J	--	68J/ND(100)U*	--	ND(2000)	ND(500) R	--
Western Boundary Wells	BW-5B	03/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	06/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/08/21	--	970	--	1700000	--	--	ND(500)	--	ND(500)	--	ND(500)	ND(2500) R	--
Western Boundary Wells	BW-5C	03/08/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	06/09/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	09/27/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/22/22	--	--	--	--	--	ND(5)	--	--	--	--	--	--	--

TABLE 5-5. GENERAL CHEMISTRY AND TOTAL PETROLEUM HYDROCARBON ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Sulfate (ug/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil (mg/L)	Oil Range Organics (ug/L)	Total Dissolved Solids (ug/L)	Solids, Total Suspended (ug/L)	Soluble Salt (ug/L)	Coliform, E-Coli (MPN/100ml)	E-Coli (MPN/100mL)	pH (Std Units)	Resistivity (Mohm/cm)	Temperature (oC)
	Cleanup Levels		600,000	16.7	10.1	85.8	85.8	500	NA	NA	500	500	6.6 – 8.6	NA	NA
Western Boundary Wells	BW-1A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1B	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-1C	09/12/18	230000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	08/14/19	250000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/20/20	260000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/29/21	260000	ND(0.12)	ND(0.05)	--	ND(150)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-1C	09/28/22	--	0.025J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	09/12/18	7300	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	08/14/19	6800	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	09/20/20	7700	ND(0.07) UJ	ND(0.05)	--	ND(600) UJ	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	09/29/21	55000	0.038J/ND(0.15)U*	ND(0.05)	--	ND(180)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2A	2022	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH	NS - SPH
Western Boundary Wells	BW-2B	09/12/18	190000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	08/14/19	200000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/21/20	170000	ND(0.07) UJ	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/29/21	180000	ND(0.13)	ND(0.05)	--	ND(160)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2B	09/28/22	--	0.049J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/18/18	270000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	08/14/19	260000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/22/20	260000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/29/21	270000	0.14J/ND(0.15)U*	ND(0.05)	--	ND(180)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-2C	09/28/22	--	0.65	ND(0.05)	--	620	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-3B	09/12/18	44000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	08/14/19	48000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/21/20	48000	ND(0.07) UJ	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/29/21	46000	ND(0.14)	ND(0.05)	--	ND(170)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3B	09/28/22	--	0.021J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/18/18	320000	ND(1)	ND(0.05)	--	ND(5000)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	08/14/19	330000	ND(1)	ND(0.05)	ND(5)	--	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/22/20	330000	ND(0.07)	ND(0.05)	--	ND(600)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/29/21	340000	ND(0.13)	ND(0.05)	--	ND(160)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-3C	09/28/22	--	ND(0.064)	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-4B	12/08/21	160000	0.047 J	ND(0.05)	--	ND(180)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	09/27/22	--	0.041J/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-4B	12/22/22	--	0.063JBE/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5A	2018 - 2022	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Western Boundary Wells	BW-5B	12/08/21	61000	0.047J/ND(0.064)U*	0.018 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	03/08/22	--	0.031J/ND(0.064)U*	0.054 JB	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	06/09/22	--	0.03J/ND(0.064)U*	0.014 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	09/27/22	--	0.06J/ND(0.064)U*	0.013 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5B	12/22/22	--	0.039JBE/ND(0.064)U*	ND(0.05)	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/08/21	230000	0.059 J	0.028 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	03/08/22	--	0.069 JB	0.062 JB	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	06/09/22	--	0.078 JB	0.023 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	09/27/22	--	0.064J/ND(0.064)U*	0.023 J	--	ND(80)	--	--	--	--	--	--	--	--
Western Boundary Wells	BW-5C	12/22/22	--	0.081 JB	0.02 J	--	ND(80)	--	--	--	--	--	--	--	--

-- = Not Measured
* = The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration by the data validator. The result was determined to be a false positive.
< = greater than
> = less than
J = Estimated concentration
J- = Estimated concentration, possibly biased low
J+ = Estimated concentration, possibly biased high
JB = Estimated concentration due to blank contamination
Mohm/cm = Megahms per centimeter
MPN/100ml = Most Probable Number per 100 milliliters
ND(x) = Not detected, where x = the reporting limit
NS - Dry = Not sampled due to dry well
NS - SPH = Not sampled due to presence of Separate Phase Hydrocarbons
NS - UTA = Not sampled, unable to access location
°C = degrees Celsius
Q = Quarter
R = Rejected, Data not usable
Std Units = Standard Units
TPH = Total Petroleum Hydrocarbons
U = Evaluated to be undetected at the reported concentration
ug/L = micrograms per liter
UJ = Estimated reporting limit
umhos/cm = micromhos per centimeter

Notes:
Bolded detections and italicized non-detections exceeded the cleanup levels selected in Table 3-2.
Data prior to July 2019 was not validated and flags have not been applied.

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Deep Monitoring Wells	OW-01	03/14/22	1470	1.34	219.7	8.79	955.5	11.7
Deep Monitoring Wells		06/15/22	1410	1.13	92.3	8.79	916.5	18.2
Deep Monitoring Wells		09/27/22	1460	2.4	60.3	8.33	939	17
Deep Monitoring Wells		12/01/22	1420	2.45	68.3	8.34	927.5	15.2
Deep Monitoring Wells	OW-10	03/07/22	3370	2.71	128.9	7.44	2196.5	9.4
Deep Monitoring Wells		06/08/22	3350	2.67	129.5	7.48	2230.5	9.7
Deep Monitoring Wells		09/21/22	3260	0.52	0	7.61	2119	14.8
Deep Monitoring Wells		12/01/22	3200	0.64	44.4	7.6	2345.5	13.4
Deep Monitoring Wells	OW-12	12/07/22	970	0.85	8.5	9.1	630.5	12.7
Deep Monitoring Wells	OW-13	03/22/22	1050	0.57	91.2	8.14	789.5	12.7
Deep Monitoring Wells		06/09/22	1180	0.11	98.3	8.19	466.5	12.8
Deep Monitoring Wells		09/07/22	1050	0.97	77	8.2	682.5	13.8
Deep Monitoring Wells		12/01/22	1040	1.04	78.6	8.15	682.5	14.3
Eastern Boundary Wells	OW-12A	03/21/22	4140	0.16	-46.6	7.08	2691.5	12.9
Eastern Boundary Wells		06/28/22	3630	0.95	-68.1	6.94	3359	14.9
Eastern Boundary Wells		09/15/22	3570	0.88	-59.5	7.27	2123.5	16.1
Eastern Boundary Wells		12/01/22	4440	0.9	257.1	6.58	2886.5	13.9
Eastern Boundary Wells	OW-14	03/23/22	1570	1.85	-77.7	7.19	1029.5	13.3
Eastern Boundary Wells		06/30/22	1500	1.82	-83.3	7.03	975	15.5
Eastern Boundary Wells		09/30/22	1590	1.96	-81.3	7.01	968.5	14.1
Eastern Boundary Wells		12/01/22	1520	1.97	85.7	6.98	928	14.2
Eastern Boundary Wells	OW-29	03/07/22	2240	1.7	89.5	7.19	1460.5	11.3
Eastern Boundary Wells		06/01/22	1980	1.86	96.4	7.02	1150	9.1
Eastern Boundary Wells		09/07/22	1670	1.11	-0.08	7.06	1085.5	15
Eastern Boundary Wells		12/27/22	1630	0.83	-1.8	7.09	1050	14.3
Eastern Boundary Wells	OW-30	03/23/22	2010	2.9	3.2	7.3	1250.5	11
Eastern Boundary Wells		06/30/22	1790	1.9	-27	7.11	1168	14
Eastern Boundary Wells		09/30/22	2210	1.7	11.2	7.19	1436.5	18.3
Eastern Boundary Wells		12/01/22	1830	1.92	20.5	7.12	1189.5	13.4
Eastern Boundary Wells	OW-50	03/07/22	1100	2.03	99.6	8.22	715	11.3
Eastern Boundary Wells		06/09/22	1100	3.19	123.8	8.23	724	12
Eastern Boundary Wells		09/07/22	1010	0.7	153.2	8.42	656.5	13.8
Eastern Boundary Wells		12/01/22	1030	0.86	148.6	8.52	650.5	13
Eastern Boundary Wells	OW-52	03/07/22	950	2.45	35.2	8.22	598.5	10.1
Eastern Boundary Wells		06/09/22	930	0.51	170.5	8.58	591.5	14.3
Eastern Boundary Wells		09/07/22	850	0.77	-73.2	8.13	552.5	13.9
Eastern Boundary Wells		12/01/22	850	0.5	74.7	8.14	538.5	14.3

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Eastern Boundary Wells	OW-54	03/22/22	1740	0.12	55.1	7.16	1140.5	11.8
Eastern Boundary Wells		06/15/22	1740	1.91	-66.7	7.26	1133.5	14.8
Eastern Boundary Wells		09/07/22	1580	0.9	-87.5	7.08	1027	13.6
Eastern Boundary Wells		12/01/22	1720	1.48	86.5	7.12	1214	13.4
Eastern Boundary Wells	OW-55	03/22/22	1770	0.12	-77.6	7.07	1164	12.8
Eastern Boundary Wells		06/15/22	1780	0.75	-103.3	7.13	1151.5	14.3
Eastern Boundary Wells		09/07/22	1600	0.81	-83.8	6.94	1040	14.2
Eastern Boundary Wells		12/01/22	1630	0.95	88.5	6.95	1095.5	13.8
Eastern Boundary Wells	OW-56	03/22/22	2370	0.11	6.6	7.31	1560.5	10.2
Eastern Boundary Wells		06/15/22	2160	4.24	101.5	7.32	1388.5	18.3
Eastern Boundary Wells		09/07/22	2080	1.81	32.9	7.12	1326	14.8
Eastern Boundary Wells		12/01/22	2140	1.82	38.7	7.11	1355.5	14.5
Eastern Boundary Wells	OW-66	03/22/22	2400	0.1	-91.6	7.06	1591.5	12.1
Eastern Boundary Wells		06/15/22	2290	0.99	-95.4	7.16	1501.5	13.8
Eastern Boundary Wells		09/07/22	2170	0.91	-96.1	6.97	1410	14.4
Eastern Boundary Wells		12/01/22	2120	1.08	91.5	6.9	1455	14
Eastern Boundary Wells	OW-70	03/21/22	1390	0.14	72	7.72	803.5	12.5
Eastern Boundary Wells		06/28/22	1150	1.05	49.2	7.65	780	15
Eastern Boundary Wells		09/15/22	1120	0.83	156.5	8.11	718	16
Eastern Boundary Wells		12/01/22	1100	0.81	166.8	8.08	865.5	13.2
Evaporation Ponds	EP-2	06/24/22	11150	5.28	210	7.7	8430	3.8
Evaporation Ponds	EP-6	06/24/22	20210	3.1	232.6	7.45	16101.5	5.1
Evaporation Ponds	STP-1 to EP-2	03/18/22	3500	3.38	201.5	8.31	1810	2.3
Evaporation Ponds		06/24/22	3100	3.95	203.2	8.24	2016	12.3
Evaporation Ponds		12/30/22	420	5.93	84.2	7.8	202	14.2
Land Treatment Unit Wells	MW-1	09/27/22	1020	2.07	10.5	9.29	663	14.1
Land Treatment Unit Wells	MW-2	09/29/22	1120	1.26	-19.2	9.2	728	13.5
Land Treatment Unit Wells	MW-4	09/30/22	1180	1.32	42.4	8.75	767	14.5
Land Treatment Unit Wells	MW-5	09/29/22	1150	1.57	35.8	9.11	723.5	13.4
Land Treatment Unit Wells	SMW-2	09/30/22	12000	1.8	29.2	7.08	7800	14.9
Land Treatment Unit Wells	SMW-4	09/28/22	1210	1.38	52.1	--	786.5	14.7
Land Treatment Unit Wells	OW-67	06/16/22	16000	2.03	98.6	6.6	10240.5	14.7
Land Treatment Unit Wells		09/20/22	15560	1.02	60.3	6.5	10088	13.2
Land Treatment Unit Wells		12/01/22	15320	1.05	61.5	6.51	10112	12.9
Land Treatment Unit Wells	OW-68	06/16/22	14040	1.49	-89.5	6.85	9130.5	14.1
Land Treatment Unit Wells		09/20/22	12610	0.91	-76.8	6.84	8196.5	13.5
Land Treatment Unit Wells		12/01/22	12700	1.4	79.3	6.81	8254	14.1

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Marketing Tank Farm Wells	MKTF-01R	03/16/22	4200	0.7	-80.1	7	2760	13
Marketing Tank Farm Wells	MKTF-02R	03/15/22	7070	1.5	25.1	7.25	4620	13.3
Marketing Tank Farm Wells	MKTF-04R	03/14/22	2070	1.7	-62.2	7.1	1345.5	13.8
Marketing Tank Farm Wells	MKTF-10	03/15/22	3270	1.3	-39.8	6.93	2120.5	11.9
Marketing Tank Farm Wells	MKTF-11	03/14/22	5010	1.19	-33.6	7	3246.5	12
Marketing Tank Farm Wells		06/21/22	4250	0.83	-31.3	6.96	2783	19.1
Marketing Tank Farm Wells	MKTF-16	03/22/22	803	7.97	362.3	6.83	373.2	9
Marketing Tank Farm Wells		06/21/22	780	1.04	-22.8	7.2	507	20.3
Marketing Tank Farm Wells		09/15/22	690	1.18	12.8	7.4	430	17.1
Marketing Tank Farm Wells		12/01/22	760	2.04	-33.4	7.45	420	13.8
Marketing Tank Farm Wells	MKTF-17R	03/14/22	1900	1.19	-106.5	7.28	1225.5	12.9
Marketing Tank Farm Wells	MKTF-18R	03/14/22	2080	0.69	-72.3	7.09	1352	13.4
Marketing Tank Farm Wells		06/21/22	1920	0.47	-98.8	6.91	1248	15.1
Marketing Tank Farm Wells		09/15/22	1790	1.98	-103.8	6.84	1163.5	16.2
Marketing Tank Farm Wells		12/01/22	2150	0.84	-282.3	6.72	1397.5	15.8
Marketing Tank Farm Wells	MKTF-24	03/15/22	4600	1	32.4	6.9	2981.5	16
Marketing Tank Farm Wells	MKTF-25	03/15/22	4310	1.2	147.2	7	2801.5	10.6
Marketing Tank Farm Wells	MKTF-27	03/16/22	16640	0.65	229	6.86	10809.5	9.9
Marketing Tank Farm Wells		06/24/22	10900	1.42	163.5	6.79	7130	14.6
Marketing Tank Farm Wells		09/14/22	7850	1.54	179.1	7.06	5037	17.2
Marketing Tank Farm Wells		12/01/22	7870	1.63	80.2	6.91	4699	12.2
Marketing Tank Farm Wells	MKTF-28	03/16/22	3970	0.57	277.5	7.36	2580.5	11.6
Marketing Tank Farm Wells		06/24/22	4000	1.57	194.5	7.14	2600.5	14.9
Marketing Tank Farm Wells		09/14/22	3420	2.14	138	7.25	2219.5	18.1
Marketing Tank Farm Wells		12/01/22	3890	2.17	95	7.09	1993.5	14.3
Marketing Tank Farm Wells	MKTF-29	03/16/22	6580	0.47	280	6.9	4277	10.9
Marketing Tank Farm Wells		06/28/22	6100	1.58	93.7	6.74	3965	12.3
Marketing Tank Farm Wells		09/14/22	5770	2.68	256.7	6.92	3685.5	17.3
Marketing Tank Farm Wells		12/01/22	3780	2.17	95	7.09	2293.5	14.3
Marketing Tank Farm Wells	MKTF-30	03/16/22	4200	0.88	268.2	7.34	2755.5	9.1
Marketing Tank Farm Wells		06/28/22	3710	3.3	240.3	7.3	2411.5	14.5
Marketing Tank Farm Wells		12/01/22	3700	4.22	233.6	7.38	2411	13.8
Marketing Tank Farm Wells	MKTF-31	03/15/22	2490	3.04	170.5	7.24	1640.5	9.8
Marketing Tank Farm Wells		06/22/22	2720	2.32	214.3	7.19	1720	16
Marketing Tank Farm Wells		09/14/22	2210	1.7	11.2	7.19	1436.5	18.3
Marketing Tank Farm Wells		12/01/22	2140	1.99	59.2	7.08	1144.33	12.7
Marketing Tank Farm Wells	MKTF-32	03/08/22	2440	1.02	227.8	7.76	1581.5	12.5

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Marketing Tank Farm Wells	MKTF-32	06/16/22	2360	0.9	187.4	7.78	1538.5	17.2
Marketing Tank Farm Wells		09/21/22	2190	2.25	-8	7.94	1423.5	14.2
Marketing Tank Farm Wells		12/01/22	2200	1.64	13.5	7.18	1378.5	17.2
Marketing Tank Farm Wells	MKTF-34	03/08/22	1750	1.09	-64	7.19	1126	13.2
Marketing Tank Farm Wells	MKTF-35	03/09/22	2360	0.62	-63.3	7	1534	10.9
Marketing Tank Farm Wells		06/21/22	2310	0.59	-98.2	6.86	1437.5	17.4
Marketing Tank Farm Wells	MKTF-38	03/14/22	1880	2.4	58.7	7.49	1237.5	13.4
Marketing Tank Farm Wells		06/21/22	1930	2.37	57.4	7.51	1280	14.1
Marketing Tank Farm Wells		09/13/22	1980	2.54	55.3	7.52	1356	13
Marketing Tank Farm Wells		12/01/22	2500	1.46	28.4	6.91	1625	13.6
Marketing Tank Farm Wells	MKTF-40	03/15/22	12020	3.14	126.2	7.04	7813	13.3
Marketing Tank Farm Wells		06/22/22	10920	4.82	165.3	7.27	7089.5	15.3
Marketing Tank Farm Wells		09/13/22	10290	4.3	35	7.07	6688.5	16.9
Marketing Tank Farm Wells		12/01/22	10060	2.44	47.5	6.83	6545	14.5
Marketing Tank Farm Wells	MKTF-41	03/08/22	3000	0.98	196.5	8.13	1950	13.1
Marketing Tank Farm Wells		06/16/22	2930	0.88	84.4	8.11	1900.5	14.5
Marketing Tank Farm Wells		09/27/22	2730	0.97	-9.7	8.09	1781	14.2
Marketing Tank Farm Wells		12/01/22	2700	1.1	8.9	7.9	1650.5	13.5
Marketing Tank Farm Wells	MKTF-42	03/08/22	3420	1.58	40.9	7.98	2223	13.3
Marketing Tank Farm Wells	MKTF-43	03/07/22	28230	2.02	145.8	6.69	18355.5	8.5
Marketing Tank Farm Wells		06/16/22	31220	1.36	101.5	6.56	2044.5	13.9
Marketing Tank Farm Wells		09/27/22	40680	1.19	-67.3	6.47	26448	17.6
Marketing Tank Farm Wells		12/01/22	47200	1.15	68.5	6.45	2548.5	16.8
Marketing Tank Farm Wells	MKTF-44	03/23/22	1800	6.01	156.5	8.1	1166	14
Marketing Tank Farm Wells		06/29/22	1630	3.61	202.3	8.36	1054	15
Marketing Tank Farm Wells		09/27/22	1730	3.25	63.5	8.23	1124.5	16
Marketing Tank Farm Wells		12/01/22	1680	3.33	68.7	8.2	1155.5	15
Marketing Tank Farm Wells	MKTF-46	03/09/22	2060	1.01	161.1	7.02	1332	12.8
Marketing Tank Farm Wells		06/21/22	1770	1.77	183.6	6.92	1150	14.1
Marketing Tank Farm Wells		09/13/22	1670	2.14	244.5	6.91	1085	16.4
Marketing Tank Farm Wells		12/01/22	1950	2.63	18.9	6.86	1263.5	12.9
Production Wells	PW-3	03/09/22	1560	4.12	111.3	7.44	1014	17.9
Production Wells		06/14/22	1270	3.03	109.1	7.32	825	18.4
Production Wells		09/08/22	1300	3.93	26.1	7.54	845	19
Production Wells		12/06/22	1180	2.83	102.4	7.2	765.5	16.2
Production Wells	PW-4	03/09/22	634	1.57	37.4	7.17	412.1	10.3
Production Wells		06/15/22	950	2.69	65.5	7.14	617.5	18.2

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Production Wells	PW-4	09/08/22	950	1.07	-75	7.26	617.5	19.4
Solid Waste Management Unit 1 Wells	OW-59	03/22/22	10400	0.1	236.3	7.39	6748.5	13
Solid Waste Management Unit 1 Wells		06/15/22	9630	1.46	92.7	7.31	6259.5	15.1
Solid Waste Management Unit 1 Wells		09/30/22	11380	2.7	102.8	7.46	7079	14.9
Solid Waste Management Unit 1 Wells		12/01/22	11350	2.4	143.5	7.48	7473.5	13.3
Solid Waste Management Unit 1 Wells	OW-60	03/22/22	5900	5.63	233.5	7.51	4150	10.3
Solid Waste Management Unit 1 Wells		06/16/22	6730	5.86	244.5	7.58	4740	12.1
Solid Waste Management Unit 1 Wells		09/20/22	6830	4.91	24.2	7.05	3789.5	16
Solid Waste Management Unit 1 Wells		12/01/22	6770	4.62	24.2	7.11	3785.5	14.2
Solid Waste Management Unit 1 Wells	NAPIS-2	03/21/22	2040	0.13	77.2	7.19	1326	10.7
Solid Waste Management Unit 1 Wells		06/23/22	2010	0.58	-55.2	7.01	1306.5	17
Solid Waste Management Unit 1 Wells		09/14/22	1970	0.75	-70.3	7.19	1780.5	18
Solid Waste Management Unit 1 Wells		12/01/22	1850	0.79	78.5	7.19	1188	15.6
Solid Waste Management Unit 1 Wells	NAPIS-3	03/21/22	2400	0.19	-75.2	6.92	1568	13.2
Solid Waste Management Unit 1 Wells		06/24/22	2310	1.42	-56.9	7.08	1501.5	15.7
Solid Waste Management Unit 1 Wells		09/14/22	1410	1.16	-97.8	7.19	911.5	17.3
Solid Waste Management Unit 1 Wells		12/01/22	1400	1.2	98.5	7.19	830	15.8
Solid Waste Management Unit 1 Wells	KA-3	03/21/22	2420	0.13	172.9	7.38	1573	13.3
Solid Waste Management Unit 1 Wells		06/24/22	2300	1.35	68.3	7.3	1439	17
Solid Waste Management Unit 1 Wells		09/14/22	2280	1.57	29	7.2	1482	17.8
Solid Waste Management Unit 1 Wells		12/01/22	2180	1.5	26.8	7.28	1411.5	16.1
Solid Waste Management Unit 1 Wells	OAPIS-1	03/21/22	5430	0.14	149.9	7.28	3529.5	12
Solid Waste Management Unit 1 Wells		06/28/22	5120	0.48	-87.6	6.68	3230.5	14
Solid Waste Management Unit 1 Wells		09/14/22	4900	2.03	139.1	7.33	3185	15.5
Solid Waste Management Unit 1 Wells		12/15/22	4800	2.03	136.5	7.38	2760.5	14
Solid Waste Management Unit 1 Wells	STP1-NW	03/23/22	7300	3.72	177.5	7.72	4732.5	13.7
Solid Waste Management Unit 1 Wells		06/28/22	6600	2.92	63.9	7.75	4290	14.7
Solid Waste Management Unit 1 Wells		09/20/22	6160	4.08	55.2	7.82	4017	15.3
Solid Waste Management Unit 1 Wells		12/15/22	6200	4.68	73.2	7.61	4098	13.8
Tank Farm Wells	OW-57	03/09/22	1520	1.74	-63.4	7.12	988	12.4
Tank Farm Wells		06/29/22	1530	0.78	-40.1	7.04	1.58	12.7
Tank Farm Wells		09/15/22	1330	0.94	-83.2	7.05	870	16.1
Tank Farm Wells		12/01/22	1350	0.68	68	6.68	877.5	12.9
Tank Farm Wells	OW-58	03/09/22	1980	1.7	-63.4	6.88	1287	12.9
Tank Farm Wells		06/29/22	1800	1.85	-80.2	6.81	1169	15.2
Tank Farm Wells		09/20/22	1690	1.5	-81.8	6.81	1098.5	16
Tank Farm Wells		12/01/22	1050	1.79	87.5	6.88	1244.5	13.2

TABLE 5-6. FIELD PARAMETERS (2022)
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH (Std Units)	Solids, Total Dissolved (mg/L)	Temperature (oC)
Tank Farm Wells	OW-58A	03/09/22	2200	0.98	-66.9	7.14	1450.5	10.7
Tank Farm Wells		06/29/22	2290	1.03	-66.3	7.18	1468	10.4
Tank Farm Wells		09/20/22	2090	0.65	-70.2	7.1	1330.5	16.3
Tank Farm Wells	OW-63	03/09/22	1500	1.33	-66.8	6.99	1001.5	13.2
Tank Farm Wells		06/08/22	1510	1.47	-97.5	7.02	958.5	14.7
Tank Farm Wells		09/20/22	1390	1.32	-98.3	6.97	903.5	15.3
Tank Farm Wells	OW-64	12/01/22	1620	1.39	156.6	6.62	1040	13.2
Tank Farm Wells		03/23/22	1760	2.24	-90.1	7.69	1144	10.1
Tank Farm Wells		06/08/22	1570	3.35	89.8	7.52	1010.5	15.1
Tank Farm Wells		09/20/22	1590	3.01	-15.6	7.73	1033.4	17.4
Tank Farm Wells		12/01/22	1580	2.15	33.6	7.62	1020.5	13
Western Boundary Wells	BW-1C	09/28/22	1320	1.32	30.7	8.78	858	14.5
Western Boundary Wells	BW-2B	09/28/22	7210	1.63	-147.3	7.72	1436.5	13.9
Western Boundary Wells	BW-2C	09/28/22	1330	1.23	-172.7	--	864.5	15.1
Western Boundary Wells	BW-3B	09/28/22	1580	1.05	132.7	8.24	1014	16.8
Western Boundary Wells	BW-3C	09/28/22	1480	1.32	-139.7	8.6	962	16.9
Western Boundary Wells	BW-4B	09/27/22	1530	1.67	164.9	8.23	994.5	16.3
Western Boundary Wells	BW-5B	06/09/22	5450	1.49	-25.5	7.49	3550.5	13.4
Western Boundary Wells		09/27/22	3110	2.07	110.3	8.29	2021.5	14.1
Western Boundary Wells	BW-5C	03/07/22	5640	3.22	-21.8	7.49	3680.5	10.8
Western Boundary Wells		06/09/22	5500	3.21	-19.8	7.47	3750	11
Western Boundary Wells		09/27/22	5960	0.71	-102.9	7.36	3874	13.3

Notes:

oC = Degrees Celsius

ID = identification

mg/L = Milligrams per liter

mV = Millivolts

ORP - Oxidation Reduction Potential

Std = Standard

umhos/cm = Micromhos per centimeter

TABLE 5-7. PFAS ANALYTICAL DATA
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Location Group Name	Location ID	Date Sampled	Perfluorobutanoic acid (PFBA) (ng/L)	Perfluoropentanoic acid (PFPeA) (ng/L)	Perfluorobutanesulfonic acid (PFBS) (ng/L)	4:2 Fluorotelomer sulfonic acid (4:2 FTS) (ng/L)	Perfluorohexanoic acid (PFHxA) (ng/L)	Perfluoropentanesulfonic acid (PFPeS) (ng/L)	Perfluoroheptanoic acid (PFHpA) (ng/L)	Perfluorohexanesulfonic acid (PFHxS) (ng/L)	6:2 Fluorotelomer sulfonic acid (6:2 FTS) (ng/L)
Tank Farm Wells	OW-63	03/10/22	ND(2.09)	486	41.9	ND(2.09)	347	41.7	128	263	679
Tank Farm Wells	OW-63	06/08/22	ND(2.08)	445	40.2	ND(2.08)	442	53.3	128	232	712
Tank Farm Wells	OW-63	09/20/22	121	470	35.1	ND(2.01)	352	42.5	134	255	556
Tank Farm Wells	OW-63	12/07/22	140	505	34.9	ND(2.03)	344	34.4	124	258	562
Cleanup Level			NA	NA	6.016	NA	NA	NA	NA	0.401	NA

Location Group Name	Location ID	Date Sampled	Perfluorooctanoic acid (PFOA) (ng/L)	Perfluoroheptanesulfonic acid (PFHpS) (ng/L)	Perfluorononanoic acid (PFNA) (ng/L)	Perfluorooctanesulfonamide (PFOSA) (ng/L)	Perfluorooctanesulfonic acid (PFOS) (ng/L)	Perfluorodecanoic acid (PFDA) (ng/L)	8:2 Fluorotelomer sulfonic acid (8:2 FTS) (ng/L)	Perfluorononanesulfonic acid (PFNS) (ng/L)	2-(N-methyl-perfluorooctane sulfonamido) acetic acid (NMeFOSAA) (ng/L)
Tank Farm Wells	OW-63	03/10/22	124	9.19	523	ND(2.09)	351	11.2	70.8	ND(2.09)	ND(2.09)
Tank Farm Wells	OW-63	06/08/22	110	13.2	604	ND(2.08)	360	13.2	71.7	ND(2.08)	ND(2.08)
Tank Farm Wells	OW-63	09/20/22	108	8.81	482	ND(2.01)	316	12.3	71.4	ND(2.01)	ND(2.01)
Tank Farm Wells	OW-63	12/07/22	106	7.25	479	ND(2.03)	331	12.1	70.1	ND(2.03)	ND(2.03)
Cleanup Level			11.128	NA	0.060	NA	0.060	NA	NA	NA	NA

Location Group Name	Location ID	Date Sampled	2-(N-ethyl-perfluorooctane sulfonamido) acetic acid (EtFOSAA) (ng/L)	Perfluoroundecanoic acid (PFUnA) (ng/L)	Perfluorodecanesulfonic acid (PFDS) (ng/L)	Perfluorododecanoic acid (PFDoA) (ng/L)	Perfluorotridecanoic acid (PFTrDA) (ng/L)	Perfluorotetradecanoic acid (PFTeDA) (ng/L)
Tank Farm Wells	OW-63	03/10/22	ND(2.09)	ND(2.09)	ND(2.09)	ND(2.09)	ND(2.09)	ND(2.09)
Tank Farm Wells	OW-63	06/08/22	ND(2.08)	103	ND(2.08)	ND(2.08)	ND(2.08)	ND(2.08)
Tank Farm Wells	OW-63	09/20/22	ND(2.01)	71.7	ND(2.01)	ND(2.01)	ND(2.01)	ND(2.01)
Tank Farm Wells	OW-63	12/07/22	ND(2.03)	76.8	ND(2.03)	ND(2.03)	ND(2.03)	ND(2.03)
Cleanup Level			NA	NA	NA	NA	NA	NA

NA = Not applicable
ND(x) = Not detected, where x = the reporting limit
ng/L = Nanograms per liter
PFAS = Per- and Polyfluoroalkyl Substances

Notes:
Bolded detections exceeded the New Mexico Environment Department, Risk Assessment Guidance, Table A-1, Tap Water, November 2022 cleanup levels

TABLE 6-1. STANDPIPES AND RETENTION DITCH RECOVERY DATA - 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Standpipes Recovery Records			
Date	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Total Fluid Pumped (gal)
1/12/2022	0	4,000	4,000
2/8/2022	0	4,200	4,200
3/9/2022	0	6,000	6,000
1st Qtr Totals	0	14,200	14,200
4/20/2022	0	5,900	5,900
5/10/2022	0	5,000	5,000
6/27/2022	0	4,500	4,500
2nd Qtr Totals	0	15,400	15,400
7/20/2022	0	5,000	5,000
8/10/2022	0	4,500	4,500
9/20/2022	0	4,500	4,500
3rd Qtr Totals	0	14,000	14,000
10/19/2023	0	4,700	4,700
11/17/2023	0	4,500	4,500
4th Qtr Totals	0	9,200	9,200
2022 Totals	0	52,800	52,800

Retention Ditch			
Date	Truck Loads	Water/Oil Mixture (gal)	Oil (gal)
1st Qtr 2022	Dry	Dry	Dry
2nd Qtr 2022	Dry	Dry	Dry
3rd Qtr 2022	Dry	Dry	Dry
4th Qtr 2022	Dry	Dry	Dry
2022 Total	Dry	Dry	Dry

gal = Gallons

Qtr = Quarter

TABLE 6-2. WELL RECOVERY DATA - 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

	Monitoring Well Recovery													
Date	MKTf-3		MKTf-5		MKTf-6		MKTf-7		MKTf-8		MKTf-13		MKTf-14	
	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)
January 2022	NA	NA	0.17	2.60	0.00	0.00	0.03	2.16	0.11	4.92	2.92	5.44	0.18	8.79
February 2022	NA	NA	0.10	2.46	0.00	0.00	0.00	2.46	0.04	5.29	0.00	0.00	0.00	0.00
March 2022	NA	NA	0.10	2.32	0.00	0.00	0.00	2.31	0.05	5.02	2.42	4.93	0.00	8.39
1st Qtr Totals	NA	NA	0.37	7.39	0.00	0.00	0.03	6.93	0.20	15.23	5.34	10.37	0.18	17.18
April 2022	NA	NA	0.00	2.10	0.81	3.29	0.01	2.04	0.06	4.74	1.26	5.16	0.00	7.65
May 2022	NA	NA	0.05	1.69	0.93	2.89	0.02	1.85	0.28	4.32	0.76	5.22	0.19	7.24
June 2022	NA	NA	0.06	1.46	0.96	2.72	0.02	1.69	0.60	3.90	1.01	5.16	0.33	7.11
2nd Qtr Totals	NA	NA	0.11	5.25	2.70	8.89	0.06	5.58	0.94	12.96	3.03	15.54	0.51	22.00
July 2022	NA	NA	0.11	2.22	0.00	0.00	0.02	1.72	0.29	4.33	0.00	0.00	0.19	8.12
August 2022	NA	NA	2.92	0.00	0.00	0.00	0.04	1.91	0.50	4.33	1.30	5.00	0.00	7.65
September 2022	NA	NA	1.25	1.31	0.00	0.00	0.09	1.89	1.05	3.86	1.06	5.19	0.08	7.42
3rd Qtr Totals	NA	NA	4.28	3.53	0.00	0.00	0.15	5.51	1.84	12.52	2.35	10.20	0.27	23.19
October 2022	2.38	5.93	0.93	1.57	0.00	0.00	0.41	1.92	2.55	2.70	1.22	4.97	0.12	7.73
November 2022	2.52	5.99	0.82	1.78	0.00	0.00	0.36	1.98	2.41	2.85	0.98	5.54	0.02	8.07
December 2022	1.81	6.05	0.39	1.47	0.00	0.00	0.26	1.81	2.22	2.75	0.67	5.02	0.10	7.42
4th Qtr Totals	6.72	17.97	2.15	4.82	0.00	0.00	1.02	5.71	7.18	8.30	2.87	15.53	0.24	23.21
2022 Totals	6.72	17.97	6.91	20.99	2.70	8.89	1.26	23.73	10.16	49.02	13.60	51.64	1.21	85.59

gal = Gallons
NA = Not applicable
Qtr = Quarter

TABLE 6-2. WELL RECOVERY DATA - 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

	Monitoring Well Recovery													
Date	MKTf-15		MKTf-17R		MKTf-19		MKTf-20		MKTf-22		MKTf-26		MKTf-33	
	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)
January 2022	NA	NA	0.00	2.01	NA	NA	0.00	0.55	0.35	1.26	0.00	1.32	0.00	1.64
February 2022	NA	NA	0.00	1.99	NA	NA	0.00	0.00	0.19	1.40	0.00	1.34	0.00	1.66
March 2022	NA	NA	0.00	1.95	NA	NA	0.00	0.00	0.09	1.48	0.00	1.37	0.00	1.68
1st Qtr Totals	NA	NA	0.00	5.95	NA	NA	0.00	0.55	0.63	4.14	0.00	4.02	0.01	4.98
April 2022	NA	NA	0.04	1.88	NA	NA	0.00	0.27	0.07	1.44	0.00	1.34	0.00	1.64
May 2022	NA	NA	0.08	1.83	NA	NA	0.00	0.00	0.16	1.35	0.00	1.33	0.00	1.61
June 2022	NA	NA	0.03	1.83	NA	NA	0.00	0.00	0.37	1.16	0.00	1.28	0.01	1.57
2nd Qtr Totals	NA	NA	0.15	5.54	NA	NA	0.00	0.27	0.60	3.95	0.00	3.96	0.02	4.82
July 2022	NA	NA	0.04	1.83	NA	NA	0.00	0.00	0.32	1.25	0.00	0.00	0.00	0.00
August 2022	NA	NA	0.03	1.87	NA	NA	0.00	0.61	0.26	1.31	0.00	1.33	0.00	1.62
September 2022	NA	NA	0.03	1.92	NA	NA	0.00	0.61	0.37	1.19	0.00	1.29	0.01	1.59
3rd Qtr Totals	NA	NA	0.10	5.62	NA	NA	0.00	1.23	0.95	3.75	0.00	2.62	0.01	3.21
October 2022	0.13	0.83	0.02	1.26	0.38	0.55	NA	NA	0.40	1.29	NA	NA	NA	NA
November 2022	0.12	0.83	0.02	1.28	0.15	0.74	NA	NA	0.33	1.34	NA	NA	NA	NA
December 2022	0.10	0.82	0.02	1.29	0.07	0.81	NA	NA	0.30	1.33	NA	NA	NA	NA
4th Qtr Totals	0.35	2.48	0.06	3.83	0.61	2.10	NA	NA	1.02	3.95	NA	NA	NA	NA
2022 Totals	0.35	2.48	0.30	20.94	0.61	2.10	0.00	2.04	3.21	15.80	0.00	10.60	0.04	13.01

gal = Gallons
NA = Not applicable
Qtr = Quarter

TABLE 6-2. WELL RECOVERY DATA - 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

	Monitoring Well Recovery													
Date	MKTf-39		MKTf-45		MKTf-48		MKTf-49		OW-61		OW-65		RW-1	
	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)
January 2022	0.36	14.20	0.00	11.50	NA	NA	0.36	6.41	0.16	3.55	4.23	1.61	1.51	8.05
February 2022	0.68	13.82	0.00	11.70	NA	NA	0.15	1.38	0.17	3.26	3.34	2.25	0.70	8.63
March 2022	0.13	3.19	0.00	11.41	NA	NA	0.21	1.33	0.10	3.03	4.51	1.23	0.47	8.90
1st Qtr Totals	1.17	31.22	0.00	34.61	NA	NA	0.72	9.12	0.44	9.84	12.08	5.09	2.68	25.58
April 2022	0.62	13.61	0.00	11.29	NA	NA	1.39	5.44	0.00	2.82	3.59	1.70	0.19	9.03
May 2022	0.50	6.53	0.00	11.10	NA	NA	0.00	2.45	0.46	2.13	4.21	0.90	0.30	8.78
June 2022	0.08	3.01	0.10	10.80	NA	NA	0.34	1.10	0.91	1.57	3.20	1.41	0.10	8.81
2nd Qtr Totals	1.20	23.15	0.10	33.19	NA	NA	1.73	8.98	1.37	6.52	11.00	4.02	0.59	26.62
July 2022	0.04	3.11	0.13	10.86	NA	NA	0.33	1.10	0.95	1.53	1.13	2.92	0.07	8.71
August 2022	0.03	3.15	0.13	11.01	NA	NA	0.26	1.20	1.00	1.65	0.40	3.43	0.04	8.59
September 2022	0.03	3.18	0.07	11.23	NA	NA	0.28	1.19	1.08	1.64	0.27	3.37	0.02	8.51
3rd Qtr Totals	0.10	9.43	0.33	33.09	NA	NA	0.87	3.49	3.03	4.82	1.80	9.72	0.13	25.81
October 2022	0.03	0.76	0.01	11.47	0.01	1.19	0.24	0.37	1.15	6.71	0.20	5.23	0.01	8.78
November 2022	0.02	0.76	0.00	11.52	0.00	0.85	0.20	0.41	1.15	6.77	0.11	5.35	0.01	8.68
December 2022	0.02	0.74	0.00	11.48	0.00	1.12	0.19	0.41	0.00	0.00	0.00	0.00	0.16	8.55
4th Qtr Totals	0.07	2.26	0.01	34.48	0.01	3.17	0.62	1.19	2.31	13.48	0.31	10.58	0.19	26.01
2022 Totals	2.54	66.06	0.44	135.37	0.01	3.17	3.95	22.79	7.15	34.67	25.18	29.42	3.60	104.02

gal = Gallons
NA = Not applicable
Qtr = Quarter

TABLE 6-2. WELL RECOVERY DATA - 2022
WESTERN REFINING SOUTHWEST LLC, D/B/A MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

	Monitoring Well Recovery					
Date	RW-2R		RW-5		RW-6	
	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)	Hydrocarbon Recovered (gal)	Water Pumped (gal)
January 2022	1.68	11.05	1.66	5.13	1.76	5.91
February 2022	1.67	10.98	1.76	5.02	1.21	6.31
March 2022	1.69	4.77	1.75	4.93	1.30	6.14
1st Qtr Totals	5.05	26.80	5.17	15.07	4.27	18.37
April 2022	1.72	10.83	1.77	4.85	1.14	6.20
May 2022	1.90	10.55	1.88	4.64	1.14	6.07
June 2022	1.75	4.39	1.83	4.52	1.98	5.82
2nd Qtr Totals	5.37	25.77	5.47	14.01	4.26	18.09
July 2022	1.67	4.24	1.77	4.46	1.32	5.66
August 2022	1.69	4.09	1.67	4.48	1.36	5.55
September 2022	1.65	3.92	1.58	4.48	1.43	5.42
3rd Qtr Totals	5.01	12.25	5.01	13.43	4.11	16.64
October 2022	1.58	3.86	1.47	4.45	1.37	5.38
November 2022	1.61	3.73	1.41	4.46	1.32	5.37
December 2022	1.61	3.74	1.32	4.57	1.32	5.42
4th Qtr Totals	4.80	11.32	4.20	13.48	4.00	16.17
2022 Totals	20.22	76.15	19.85	56.00	16.64	69.26

gal = Gallons
NA = Not applicable
Qtr = Quarter

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811 S. First St., Artesia, NM 88210
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1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 209359

CONDITIONS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 209359
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
scwells	Accepted for Records Retention Purposes	4/20/2023