

GW – 028

2015 AGWMR

PART 12 OF 25

03 / 2016



HollyFrontier Navajo Refining LLC
Artesia Refinery

2015 Annual Groundwater Report
RCRA Permit No. NMD048918817
Discharge Permit GW-028

March 2016



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2015 Annual Groundwater Report

RCRA Permit No. NMD048918817
Discharge Permit GW-028

Prepared for:

New Mexico Environment Department
Hazardous Waste Bureau
and
New Mexico Energy, Minerals and Natural
Resources Department - Oil Conservation
Division

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TX000836.0004.00004

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**2015 Annual
Groundwater Report**

HollyFrontier Navajo Refining LLC
Artesia, New Mexico

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or 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.

A handwritten signature in blue ink, appearing to read "Scott M. Denton", written over a horizontal line.

Scott M. Denton
Environmental Manager, HollyFrontier Navajo Refining LLC

List of Acronyms

1,2,4-TMB	1,2,4-trimethylbenzene
1,3,5-TMB	1,3,5-trimethylbenzene
ABT	aggressive biological treatment
AOC	Area of Concern
Arcadis	Arcadis U.S., Inc.
CGWSL	Critical Groundwater Screening Level
COC	constituent of concern
DAF	dissolved air flotation
DO	dissolved oxygen
DRO	diesel range organics
FWGMWP	Facility-Wide Groundwater Monitoring Work Plan
EP	Evaporation Pond
GRO	gasoline range organics
HMI	Hydrologic Monitoring, Inc.
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
MTBE	methyl tert-butyl ether
Navajo	HollyFrontier Navajo Refining LLC
NCL	North Colony Landfarm
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NWS	National Weather Service
OCD	New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division
ORP	oxidation-reduction potential

OSE	Office of the State Engineer
PCC Permit	Post-Closure Care Permit
PSH	phase-separated hydrocarbon
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RO	reverse osmosis
SWMU	Solid Waste Management Unit
USEPA	United States Environmental Protection Agency
UTL	upper tolerance limit
TDS	total dissolved solids
TEL	tetra ethyl lead
TMD	Three Mile Ditch
TPH	total petroleum hydrocarbon
VOC	volatile organic compound
WQCC	Water Quality Control Commission

Executive Summary

HollyFrontier Navajo Refining LLC (Navajo) owns and operates the Artesia Refinery (refinery) in Artesia, New Mexico (Figure 1). The refinery has been in operation since the 1920s and processes crude oil into asphalt, fuel oil, gasoline, diesel, jet fuel, and liquefied petroleum gas. Navajo maintains a groundwater monitoring program according to the requirements of the Post-Closure Care Permit (PCC Permit), which is administered by the New Mexico Environment Department (NMED) Hazardous Waste Bureau. The PCC Permit (NMED 2010) was modified and reissued in December 2010 with an effective date of January 14, 2011. The PCC Permit (NMED 2010) also requires Navajo (the Permittee) to recover phase-separated hydrocarbons (PSHs), where present, from the shallow groundwater.

The refinery is also regulated by the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division (OCD). The OCD issued a renewal to Discharge Permit GW-028 (OCD 2012) dated August 22, 2012. Among other requirements, the Discharge Permit (OCD 2012) requires semiannual facility-wide groundwater monitoring and submittal of an annual report summarizing the groundwater monitoring and remediation conducted throughout each year.

On behalf of Navajo, Arcadis U.S., Inc. (Arcadis) prepared the 2014 Facility-Wide Groundwater Monitoring Work Plan (2014 FWGMWP; Arcadis 2014a) submitted to the NMED and the OCD on June 27, 2014, as required by the PCC Permit (NMED 2010). Approval of the 2014 FWGMWP was received from the NMED in a letter dated February 18, 2015 (NMED 2015a). As required by the PCC Permit, the 2014 FWGMWP was updated in 2015 and submitted to the NMED and OCD on June 29, 2015 (Arcadis 2015b). NMED provided disapproval of the 2015 FWGMWP in a letter dated October 16, 2015 (NMED 2015c). The 2015 FWGMWP was revised and re-submitted to the NMED and the OCD in a letter dated December 21, 2015 (Arcadis 2015d). This 2015 Annual Groundwater Report (report) follows the format specified in Appendix E.4 of the PCC Permit (NMED 2010) and summarizes the activities performed throughout 2015 to comply with the 2014 FWGMWP (Arcadis 2014a).

The activities performed during 2015 included installation of new monitoring well MW-138, collection of field data, collection of groundwater samples for chemical analyses, and remediation system monitoring. Section 2 of this report describes the groundwater monitoring activities completed, including any exceptions to the planned activities.

Field measurements, analytical data, and remediation system documentation are summarized in Sections 4.1, 4.2, 5.3, and 6 of this report. Maps showing the

monitoring well locations and depicting the groundwater gradient, thickness of PSH, and groundwater screening level exceedance areas for constituents of concern (COCs) are also provided. Detailed plots of select COCs in specific monitoring wells through time as well as plots of the static water level in those monitoring wells versus time are provided in an appendix to the report.

The following conclusions are based upon the information obtained in 2015 and a comparison to data from prior years:

- Groundwater flow direction and gradient remains generally consistent with that measured during past years. Discharge of the RO reject water to the RO reject fields has shown localized influence on the groundwater gradient, creating a slight mound beneath the South RO reject field. High precipitation in 2015 has resulted in a higher than normal potentiometric surface in both the shallow and deeper water bearing zones, and have resulted in slight changes to the flow direction and gradient in localized areas.
- The PSH plume shapes were modified, as shown in Figures 8 and 9, based on diminishing PSH thicknesses and the disappearance of PSH in wells at the North Refinery Area, South Refinery Area, and field east of the refinery.
- Groundwater concentrations of organic constituents have generally remained stable, although increasing trends were noted in specific areas. The overall shapes of the constituent plumes remain similar to previous years, although slight changes were observed primarily due to slight variations in COC concentrations near the CGWSL through time and fluctuations in PSH presence at thicknesses above and below 0.03 feet in multiple wells that dictated when wells could be sampled.
- Although the background groundwater evaluation has been completed and statistical evaluation confirmed that some of the inorganic COCs are present above the WQCC standards or EPA MCLs, alternative screening levels have not yet been approved for those COCs. It should be noted however, that many of the concentrations of inorganic COCs (manganese, chloride, fluoride, nitrate/nitrite, sulfate, TDS) depicted as “exceedances” in this report may actually be similar to and reflective of background groundwater concentrations.
- The PSH recovery system continued to operate throughout 2015, although for most of the year only the PSH pumps were in use and the groundwater pumps were not operated. Diminishing PSH recovery was observed in each successive quarter in 2015 correlating with declining PSH thickness measured in the

subsurface, likely due to elevated groundwater levels. This, in conjunction with lack of drawdown by the groundwater pumps, contribute to reduced PSH recovery.

According to the requirements of the updated PCC Permit (NMED 2010), an updated FWGMWP will be submitted in June 2016.

1. Introduction

HollyFrontier Navajo Refining LLC (Navajo) owns and operates the Artesia Refinery (refinery) in Artesia, New Mexico (Figure 1). The refinery has been in operation since the 1920s and processes crude oil into asphalt, fuel oil, gasoline, diesel, jet fuel, and liquefied petroleum gas. The facility is regulated under the Resource Conservation and Recovery Act (RCRA). In October 2003, the Secretary of the New Mexico Environment Department (NMED) issued a Post-Closure Care Permit (PCC Permit) to Navajo for the Artesia Refinery Facility (United States Environmental Protection Agency ID number NMD048918817). The PCC Permit was modified and reissued in December 2010 (NMED 2010), with an effective date of January 14, 2011.

The PCC Permit (NMED 2010) authorizes and requires Navajo (the Permittee) to conduct post-closure care at the closed tetra ethyl lead (TEL) surface impoundment and the North Colony Landfarm (NCL) and to take appropriate actions to achieve RCRA closure of the inactive Evaporation Ponds (EPs). These areas and the locations of all existing monitoring and recovery wells are shown on Figures 2 and 3.

Among other action items, the PCC Permit (NMED 2010) requires the Permittee to maintain a groundwater monitoring program to evaluate the effectiveness of the corrective action program for groundwater and to meet the requirements of 20.4.1.500 New Mexico Administrative Code (NMAC) (incorporating 40 Code of Federal Regulations Part 264, Subpart F) during the post-closure care period. The PCC Permit (NMED 2010) also requires the Permittee to recover phase-separated hydrocarbons (PSHs), where present, from the shallow groundwater.

The refinery is also regulated by the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division (OCD). The OCD issued a renewal to Discharge Permit GW-028 (OCD 2012) dated August 22, 2012. Among other requirements, the Discharge Permit (OCD 2012) requires semiannual facility-wide groundwater monitoring and submittal of an annual report summarizing the groundwater monitoring and remediation conducted throughout each year.

On behalf of Navajo, Arcadis U.S., Inc. (Arcadis) prepared the 2014 Facility-Wide Groundwater Monitoring Work Plan (2014 FWGMWP; Arcadis 2014a) submitted to the NMED and the OCD on June 27, 2014, as required by the PCC Permit (NMED 2010). Approval of the 2014 FWGMWP was received from the NMED in a letter dated February 18, 2015 (NMED 2015a). As required by the PCC Permit, the 2014 FWGMWP was updated in 2015 and submitted to the NMED and OCD on June 29, 2015 (Arcadis 2015b). NMED provided disapproval of the 2015 FWGMWP in a letter

dated October 16, 2015 (NMED 2015c). The 2015 FWGMWP was revised and re-submitted to the NMED and the OCD in a letter dated December 21, 2015 (Arcadis 2015d).

The semiannual monitoring events of 2015 were performed according to the approved 2014 FWGMWP (Arcadis 2014a).

This 2015 Annual Groundwater Report (report) follows the format specified in Appendix E.4 of the PCC Permit (NMED 2010) and summarizes the activities performed throughout 2015 to comply with the 2014 FWGMWP (Arcadis 2014a).

2. Scope of Services

This section describes groundwater monitoring and associated activities performed during 2015. The first semiannual sampling event was conducted from April 14 to April 17, 2015. The second semiannual sampling was conducted from October 19 to October 20, 2015.

2.1 Monitoring Well Installation and Repairs

One monitoring well, MW-138, was installed in August 2015 near the Main API Separator, which is listed as Solid Waste Management Unit 22 (SWMU 22) in the PCC Permit. Monitoring well MW-138 was surveyed by a licensed surveyor to determine the location and elevation of the top of casing. The survey data is included in the well completion log provided in Appendix A and provided in Table 1.

In August 2015, the standalone PVC casings at wells MW-18 and NCL-49 were provided with protective installations. Outer steel casings complete with lids and locks were installed around each of the well's stickup casings. Additionally, bollards were set in around each well. The wells' inner casings were not changed, therefore no re-survey was done.

2.2 Phase-Separated Hydrocarbon and Water Level Measurements

At the beginning of each of the two semiannual sampling events, Hydrologic Monitoring, LLC (HMI) measured the depth to PSH, depth to water, and total depth in the monitoring and recovery wells. Measurements were obtained using an oil/water interface probe attached to a measuring tape marked in 0.01-foot increments. The measurements were made in relation to the surveyed datum on each well casing. If the survey datum mark was not visible, measurements were obtained at the northern side of each well riser, which is the default survey datum location. Measurements were recorded on the field data sheets for each event.

Well gauging for the first semiannual sampling event was conducted on April 14, 2015 following 2 days of rainfall observed in the Artesia area. Rainfall was observed in the Artesia area during the 2 days prior to gauging; however, 0.09 inches of rainfall was recorded at the NWS gauging station on April 13, 2015 while no rainfall was recorded at the gauging station on April 12, 2015. No rainfall was recorded at the refinery during the day gauging took place; however, 0.79 inches of rainfall was recorded at the National Weather Service (NWS) gauging station, located approximately 6 miles south of the refinery on April 14, 2015. A total of 0.92 inches of rainfall was recorded during

the month of April 2015. A copy of the NWS data for April 2015 is provided in Appendix A.

Well gauging for the second semiannual event was conducted on October 19, 2015. No rainfall was recorded at the refinery or the NWS gauging station during the day gauging took place; however, a total of 4.37 inches of rainfall was recorded during the month of October 2015. A copy of the NWS data for October 2015 is provided in Appendix A.

Table 1 summarizes the gauging data collected during both semiannual sampling events for 2015. Figures 4 through 7 depict the potentiometric surface maps for the shallow saturated zone and valley fill zone based on measurements collected during the two semiannual sampling events. Figure 8 and 9 depict the PSH thickness measured during the two semiannual sampling events.

Periodic gauging of wells MW-105, NCL-34A, and RW-7 was also conducted throughout 2015. In accordance with a recommendation made in an Additional Corrective Action Investigation report for SWMU/AOC Group 2 (Arcadis 2013) submitted to the NMED on April 12, 2013, Navajo collected monthly gauging data at MW-105 in 2015. Per an approval with modification letter from NMED dated March 5, 2014 (NMED 2014) regarding the investigation of potential PSH sources in NCL-34, Navajo was directed by the NMED to collect quarterly gauging data at NCL-34A and RW-7 for two years; Navajo collected gauging data on a monthly basis at NCL-34A and on a weekly basis at RW-7 in 2015.

Tables G.1, G.2, and G.3 in Appendix G summarize the periodic gauging data collected in 2015 at wells MW-105, NCL-34A, and RW-7, respectively.

2.3 Groundwater Sample Collection and Handling

Groundwater samples were collected during each of the two semiannual sampling events. The wells designated for sample collection during the first and second semiannual sampling event were listed in the 2014 FWGMWP (Arcadis 2014a). According to the 2014 FWGMWP (Arcadis 2014a), if a well designated for sample collection contained PSH at a thickness greater than or equal to 0.03 foot, no sample was collected from that well during that event.

Samples were collected from monitoring wells using low-flow sampling procedures, where possible, consistent with 2014 FWGMWP (Arcadis 2014a). Samples collected from irrigation wells were collected from a valve in the irrigation piping as near to the

well as possible. Table 2 indicates the method by which each well was purged and sampled.

Prior to collection of samples, each monitoring and recovery well was purged by pumping groundwater using a peristaltic pump and dedicated tubing. During the well purging process, water quality parameters, including pH, conductivity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP), were measured at regular intervals using a multiparameter water quality meter. The water quality parameters were recorded on the field log for each well and a copy of the field logs is provided in Appendix A. The final water quality parameters measured at each well are summarized in Table 2.

For monitoring wells that were sampled using low-flow procedures, purging was considered complete when at least four of the purge parameters had stabilized. The specified stabilization criteria are ± 0.2 standard unit for pH, ± 0.2 degree Celsius for temperature, ± 0.2 milligram per liter (mg/L) for DO, ± 0.02 Siemen per meter for specific conductance, and ± 20 millivolts for ORP.

Samples were collected by directing the flow of water from the tubing directly into the prepared sample containers. Care was taken to not overflow the containers and potentially remove preservatives from pre-preserved containers. Samples that were to be analyzed for dissolved metals were collected by attaching a disposable 0.45 micron filter to the tubing and directing the flow through the filter into the sample container.

Samples collected during the two semiannual events were submitted to an analytical laboratory for analyses of various COCs according to the 2014 FWGMWP (Arcadis 2014a) and as discussed in Section 5 of this report. The appropriate containers for each set of analyses were shipped to the field by the laboratory. Sample labels were completed for each container and included the well identifier, sample identifier, date and time, sampler's initials, and analytical method(s) to be performed. Glass sample containers were placed in padded packing sleeves to prevent breakage. Sample containers were packed with ice in a shipping container. Shipping containers were sent overnight via Federal Express to the analytical laboratory.

Chain of custody forms were completed for each shipment to indicate which samples were included in that shipment and what analyses to perform for each sample. Copies of the chain of custody forms are included in Appendix B with the analytical data reports.

2.4 Equipment Decontamination Procedures

The oil/water interface probes used to gauge the PSH and water levels were decontaminated between uses in each well. Decontamination of the probes consisted of washing the probe and the attached tape measure in a mixture of water and non-phosphate detergent (Alconox™). The equipment was then rinsed with clean water. The clean water used for washing and rinsing was either laboratory provided deionized water or distilled water purchased from a local store.

The flow-through cell used for low-flow purging and sample collection was decontaminated between uses in each well. The probes of the water parameter meters were also decontaminated between uses in each well. Decontamination of this equipment included submersing the flow-through cell in a mixture of water and non-phosphate detergent (Alconox™), washing the cell with a soft brush, submersing the probe end of the meters in the soapy water mixture, and brushing the end of the probe with a soft brush. The equipment was then rinsed with distilled water purchased from a local store.

Dedicated tubing was used for sample collection from each well; therefore, decontamination of sample collection tubing was not required. The dedicated tubing was left in the well between sampling events, with the upper portion coiled to ensure that the lower portion did not remain in the water column. At the beginning of each sampling event, the tubing was inspected and replaced if staining or mold was noted.

2.5 Investigation-Derived Waste

All purge water and decontamination liquids were contained in a portable tank in the sampling trailer. The liquids were disposed of daily in the refinery process wastewater system upstream of the oil/water separator, by releasing the liquids into a sump designated by refinery personnel (either the sump adjacent to the Main Gate Entrance or the sump adjacent to the North Bundle Cleaning Pad). The volumes of purge water collected at each well were recorded on the HMI field logs and a copy of the field logs is provided in Appendix A.

Solid wastes included disposable gloves, paper towels, plastic bags, and used tubing. All solid waste was bagged and placed in the refinery trash receptacles for later disposal.

2.6 Exceptions to Groundwater Monitoring Work Plan

Exceptions to the planned groundwater monitoring are discussed below:

- First semiannual sampling event (April 14 to April 17, 2015):
 - A pressure gauge on RA-313 prevented the well from initially being sampled, so the pressure gauge was removed (with a Navajo representative present) and replaced with a temporary sample port. The Navajo representative turned the well on so the sampling crew could collect the groundwater sample, and then after sampling was complete the temporary sample port was removed and the pressure gauge was re-installed on RA-313. This change in sample collection location (temporary port instead of tap) does not affect the sample results.
 - KWB-3AR and RA-1227 were not gauged or sampled because access was denied by the landowner (Jack Joy). Navajo will request removal of these wells from the sampling plan due to continued denial of access.
 - RA-3156 was not sampled because the landowner (Chris Kuykendall) denied access due to “multiple valves being open” at that time for irrigation purposes.
 - KWB-9 was not gauged or sampled because a hard obstruction was encountered in the well at a depth of 15.11 feet from top of casing. The source of the obstruction will be investigated and repair and/or replacement will be considered.
 - RW-#11-0 was not sampled because it was dry.
- Second semiannual sampling event (October 19 to October 20, 2015)
 - KWB-3AR was not gauged or sampled because access was denied by the landowner (Jack Joy). Navajo will request removal of this well from the sampling plan due to continued denial of access.
 - KWB-9 was not gauged because a hard obstruction was encountered in the well at a depth of 15.11 feet from top of casing. The source of the obstruction will be investigated and repair and/or replacement will be considered.

- MW-97 was not gauged or sampled because the sampling crew could not access the well due to turnaround activities (replacement of catalyst).

3. Regulatory Criteria

Regulatory standards used to evaluate the data collected for the groundwater monitoring program are based on the presumption that the shallow groundwater might be used as a source of drinking water. The screening level value used for each COC is the lower value of either the New Mexico Water Quality Control Commission (WQCC) standards from 20.6.2.3103 NMAC or the Maximum Contaminant Level (MCL) from the USEPA Regional Screening Levels (USPEA 2015). For COCs where neither a WQCC standard or MCL exists, the screening level value used is the NMED Tap Water Standard listed in the Risk Assessment Guidance for Site Investigations and Remediation (NMED 2015b). If no NMED Tap Water value is available, then the screening level value used is the USEPA Tap Water value (USEPA 2015).

NMED did not publish total petroleum hydrocarbons (TPH) screening guidelines for groundwater in the 2015 update to the risk assessment guidance document (NMED 2015b). The TPH screening value for potable groundwater for “unknown oil” included in Table 6-2 of the 2012 guidance document (NMED 2012), as corrected by subsequent correspondence from the NMED, was used as a conservative measure for all areas except the EPs. Based on the approved investigation report for the EPs (Arcadis 2015a), the screening value for potable groundwater for “Diesel #2/New Crankcase Oil” (Table 6-2, NMED 2012) is used for the EP area.

Table 3 lists the screening levels from each source and summarizes the Critical Groundwater Screening Level (CGWSL) for each COC. The CGWSL for each COC is also provided in the data summary tables, which are discussed later in this report.

An evaluation of background groundwater quality was conducted between July 2014 and June 2015 for the purpose of determining the concentrations of COCs that may be present in the background. The evaluation was performed according to an approved work plan (Arcadis 2014b) and a report summarizing the evaluation was submitted to NMED and OCD in September 2015 (Arcadis 2015c). The background groundwater investigation included statistical evaluation of COCs and calculation of upper tolerance limits (UTLs), where a statistically valid set of data was available. Navajo requested to use the background groundwater evaluation to develop alternative screening standards for specific COCs where the background data set demonstrates that the COCs are present above the WQCC standards or MCLs. The alternative standards have not been included in this report because the NMED and OCD are currently reviewing the background groundwater investigation report. However, it should be noted that concentrations of manganese, chloride, fluoride, sulfate, nitrate/nitrite and TDS that

exceed the screening levels using the WQCC standards or EPA MCLs may not exceed background concentrations.

4. Monitoring Results

Groundwater monitoring events occurred semiannually, as required by the PCC Permit (NMED 2010) and the Discharge Permit (OCD 2012). This section describes the results of the relevant field activities conducted during 2015.

4.1 Groundwater Gauging Results

The first semiannual sampling event was conducted from April 14 to April 17, 2015. The second semiannual sampling event was conducted from October 19 to October 20, 2015. As discussed in Section 2, the depth to PSH (if present) and depth to water was measured in each well at the beginning of each sampling event. These measurements are summarized in Table 1.

The measurements of depth to groundwater and depth to PSH (if present) were used to create groundwater gradient maps and PSH thickness maps for the 2015 semiannual events (Figures 4 through 9). For those wells where PSH was present, the groundwater elevation measurement was adjusted to determine the potentiometric surface elevation, assuming a specific gravity of 0.8 for the PSH. Plots of the groundwater elevation in each well through time are provided in electronic form in Appendix C, at the OCD's request.

The groundwater potentiometric surface for the 2015 first semiannual event is depicted on Figures 4 and 5 for the shallow saturated zone and for the valley fill zone, respectively. The groundwater potentiometric surface for the 2015 second semiannual event is depicted on Figures 6 and 7 for the shallow saturated zone and for the valley fill zone, respectively. As shown on these figures, the groundwater flow direction beneath the refinery is consistently to the east, toward the Pecos River, although slight variations to flow direction are present in localized areas. The groundwater flow direction beneath the EPs is generally to the southeast.

The influence of discharge of RO reject water to the RO reject fields is shown through the mounding at MW-114 and MW-115 during both semiannual gauging events. Additionally, groundwater sinks that had been present around various recovery wells in previous years were not observed during either of the semiannual gauging events in 2015; this is likely due to the cessation of site-wide groundwater pumping at the recovery wells in 2015 paired with upwelling in both the shallow and deeper water bearing zones caused by heavy precipitation.

As discussed in Section 2, in addition to the groundwater gauging that took place during the semiannual events, periodic gauging took place in 2015 for MW-105 on a monthly basis, NCL-34A on a monthly basis, and RW-7 on a weekly basis. The depth to PSH (if present) and depth to water was measured in each well during the periodic gauging events. The measurements and periodic gauging event dates are summarized in Tables G.1 through G.3 (Appendix G).

4.2 Phase-Separated Hydrocarbons

PSH thicknesses are shown on Figures 8 and 9 for the 2015 first and second semiannual events, respectively. As shown, PSH is present in four distinct areas at the refinery: two small isolated areas in the northern portion of the refinery (NCL and North Refinery Area), one large segmented area in the southeastern portion of the refinery extending east through the field east of the refinery to Bolton Road, and one small isolated area on the western end of the EPs near the former discharge point into Pond 1. Trend plots of PSH thickness and water elevations for all wells with measurable PSH are provided in electronic form in Appendix C.

PSH observations within each area of interest are discussed in the following subsections. Additional information on recovery activities is provided in Section 6.

4.2.1 North Colony Landfarm Area

PSH was present southeast of the NCL only during the 2015 first semiannual event. As shown in Table 1 and on Figures 8 and 9, PSH was present in MW-94 in April 2015 with a reported thickness of 0.04 foot. PSH in this well has steadily decreased over time since 2010 from a maximum PSH thickness of greater than 10 feet to not measurable in October 2015. The PSH thickness increase in MW-94 in September 2010 was attributed to leaking underground piping in the area. This leak may have caused the presence of PSH in NCL-34A, RW-7, MW-67, and MW-91 in September 2011 because PSH was not observed in these wells between 2008 and 2011.

By the end of 2015, PSH was not measurable in any of the wells in the vicinity of the NCL which is most likely attributed to elevated groundwater preventing additional drainage of any PSH into the well casings. The wells in this area appear to have been remediated of all PSH but will continue to be monitored to evaluate the effectiveness of the recovery efforts. No additional recovery of PSH beyond the utilization of the automated pumping recovery system occurred at the refinery in 2015.

4.2.2 Tetra Ethyl Lead Area

As shown in Table 1 and on Figures 8 and 9, no PSH was measured in the TEL wells during either 2015 semiannual event.

4.2.3 Evaporation Ponds Area

As shown in Table 1 and on Figures 8 and 9, PSH is present in MW-85 and MW-86, which are located near the original discharge point in EP 1. The PSH thickness measured in April 2015 was 0.45 and 0.86 feet in MW-85 and MW-86, respectively. In October 2015, the PSH thickness was 1.1 and 0.13 feet in MW-85 and MW-86, respectively. The PSH thicknesses in these wells are slightly elevated compared with those measured during the 2014 events, but are overall less than the thicknesses observed between 2010 and 2012, which ranged from 1 foot to over 2 feet. PSH has historically been periodically removed from these two wells by bailing and then placed in the refinery's waste oil system for recycling; however, no additional recovery of PSH occurred in 2015. These wells will continue to be monitored to evaluate the presence and extent of PSH.

4.2.4 Three Mile Ditch

As shown in Table 1 and on Figures 8 and 9, no measurable PSH was present in any wells along Three Mile Ditch (TMD) during 2015.

4.2.5 North Refinery Area

As shown in Table 1 and on Figures 8 and 9, PSH was present in MW-92 and MW-97 in April 2015 with reported thickness of 0.05 foot and 0.27 foot, respectively. In October 2015, PSH was observed in MW-92 with reported thickness of 0.04 foot; however, MW-97 could not be gauged in October 2015 due to inaccessibility. Additionally, as shown in Table G.3 (Appendix G), PSH was present in RW-7 during the 2015 periodic gauging events on July 24, August 14, and August 21 with reported thickness of 0.10 foot, 0.03 foot, and 0.01 foot, respectively.

Although intermittent fluctuations in the PSH thicknesses influenced by PSH removal and fluctuations in the potentiometric surface are shown in the wells listed above, PSH thicknesses in these wells show a continued overall decrease over time. PSH thickness fluctuates in the wells with active PSH recovery. PSH is routinely removed from this plume by automated pumping from RW-1R, RW-2R, RW-7, and RW-8R; PSH was recovered from all of these recovery wells in 2015 with the exception of RW-1R.

The recovered PSH is pumped to Tank 49 within the refinery, then to the crude tank(s) (Tank 1225 or 437) for processing. PSH has historically been periodically removed from multiple monitoring wells in the North Refinery Area by bailing, however no additional recovery of PSH beyond the utilization of the automated pumping recovery system occurred at the refinery in 2015.

4.2.6 South Refinery Area

As shown in Table 1 and on Figures 8 and 9, PSH was present in MW-48, MW-64, MW-65, RW-15C, RW-19, KWB-2R, and KWB-4 in April 2015, with reported thickness of 0.01 foot, 0.18 foot, 0.01 foot, 0.12 foot, 0.46 foot, 0.01 foot, and 0.12 foot, respectively. PSH was also present in MW-64, MW-65, RW-5R, RW-15C, RW-19, KWB-2R, KWB-4, and KWB-6, in October 2015, with reported thicknesses of 0.18 foot, 0.05 foot, 0.04 foot, 0.12 foot, 0.26 foot, 0.01 foot, 0.7 foot, and 0.01 foot, respectively.

Although intermittent fluctuations in PSH thicknesses influenced by PSH removal and fluctuations in the potentiometric surface are shown in the monitoring wells listed above, PSH thicknesses in these monitoring wells show a continued overall decrease over time. PSH thicknesses fluctuate in the wells with active PSH recovery. PSH is routinely removed from this plume by automated pumping from RW-4R, RW-5R, RW-6R, RW-15, and RW-19; PSH was recovered from all of these recovery wells in 2015 with the exception of RW-4R. The recovered PSH is pumped to Tank 49 within the refinery, then to the crude tank(s) (Tank 1225 or 437) for processing. PSH has historically been periodically removed from multiple monitoring wells in the South Refinery Area by bailing, however no additional recovery of PSH beyond the utilization of the automated pumping recovery system occurred at the refinery in 2015.

4.2.7 Field East of Refinery

As shown in Table 1 and on Figures 8 and 9, PSH is present in KWB-8, KWB-10R, MW-58, MW-112, MW-129, MW-132, RW-12R, RW-13R, RW-14R, and RW-22 in April 2015 with reported thicknesses of 0.13 foot, 0.01 foot, 0.01 foot, 0.03 foot, 0.02 foot, 0.41 foot, 0.03 foot, 0.1 foot, 0.16 foot, and 0.02 foot, respectively. PSH was present in KWB-8, KWB-10R, MW-58, MW-112, MW-129, MW-132, MW-133, RW-13R, RW-14R, and RW-22 in October 2015 with reported thicknesses of 0.04 foot, 0.01 foot, 0.01 foot, 0.04 foot, 0.01 foot, 0.45 foot, 0.04 foot, 0.55 foot, 0.16 foot, and 0.02 foot, respectively.

PSH thicknesses generally decreased over time in most of the locations identified above. PSH thicknesses fluctuate in the wells with active PSH recovery. PSH is routinely removed from this plume by automated pumping from RW-12R, RW-13R,

RW-14R, RW-20, and RW-22. The recovered PSH is pumped to Tank 49 within the refinery, then to the crude tank(s) (Tank 1225 or 437) for processing. PSH has historically been periodically removed from multiple monitoring wells in the Field East of Refinery by bailing, however no additional recovery of PSH beyond the utilization of the automated pumping recovery system occurred at the refinery in 2015.

5. Chemical Analytical Data

5.1 Sample Analyses

The samples collected during the first semiannual sampling event conducted in April 2015 and the second semiannual event conducted in October 2015 were analyzed for various COCs, according to the 2014 FWGMWP (Arcadis 2014a). The COCs and analytical methods conducted for the first and second semiannual sampling events included the following:

- TPH - diesel range organics (DRO) by Method 8015 Modified.
- TPH - gasoline range organics (GRO) by Method 8015 Modified.
- Volatile organic compounds (VOCs) by Method 8260.
- Metals by Methods 6020 and 7470. The standard analyte list included analysis of arsenic, barium, chromium, iron, lead, manganese, and selenium. In select wells, an additional analyte list included analysis of mercury, nickel, and vanadium. Total metals were analyzed in samples from both the first and second semiannual events. Field-filtered samples were collected to analyze the same list of metals in dissolved form during the first semiannual event.
- Cyanide by Method 4500.
- Major cations and anions (calcium, chloride, fluoride, potassium, sodium, sulfate) by Methods 6020 and 300.
- Nitrates/nitrites (as nitrogen) by Method 300.
- Total dissolved solids (TDS) by Method 2540.

Not every sample was analyzed by every method listed above. The specific analytical suite chosen for each sample was based on the approved 2014 FWGMWP (Arcadis 2014a).

The laboratory analytical reports are included in electronic format in Appendix B.

5.2 Data Validation

The analytical data were reviewed and validated following the guidelines of the PCC Permit (NMED 2010). The data validation and a discussion of any data quality exceptions are included in electronic form in Appendix D. Data qualifier flags were added to the data based on the data validation results and are included in tabulated form in Appendix B.

Although some data quality exceptions were noted, the data are generally usable for the purpose intended.

5.3 Discussion of Analytical Data

The PCC Permit (NMED 2010) requires that this report include the analytical data for the current monitoring event and the three prior sampling events. Because some wells are sampled semiannually, some wells are sampled annually, and some wells are sampled biennially, the timeframe required to provide data for three prior sampling events varies by well. To simplify the data presentation, the monitoring data for 2013 through 2015 are presented in Appendix B for all wells sampled and for all compounds analyzed. This provides data for three prior events for the majority of the wells and at least two prior events for those wells sampled annually. The CGWSL is provided at the top of the data table and exceedances of the CGWSL are highlighted in yellow. The data are presented by well numeric order in the tables in Appendix B. The tables have been divided by major analytical group.

Table 4 summarizes the analytical data for the wells sampled during 2015, sorted by the area in which the well is located. Table 4 includes the following subset of the compounds analyzed:

- GRO
- DRO
- Total metals (arsenic, barium, chromium, iron, lead, manganese, mercury, nickel, selenium, and vanadium)
- VOCs (compounds that have had at least one detected value reported above the CGWSL in more than one well)

- Cyanide
- Major cations and anions (calcium, chloride, fluoride, potassium, sodium, and sulfate)
- Water quality parameters (TDS and nitrate/nitrite)

Data from 2013 through 2015 are provided in Table 4 to provide comparison to at least three prior sampling events for those wells that are sampled semiannually. The CGWSL used for comparison against the analytical results from each well are presented at the top of the table; concentrations of COCs that exceed the screening levels are highlighted.

Historical concentrations from 2004 through 2015 of select COCs that have consistently been detected at concentrations above the groundwater screening levels in samples collected from site wells are presented in trend plots provided in electronic form in Appendix C. These plots are organized by well within major areas of interest and include trend plots for the following indicator COCs:

- GRO
- DRO
- Benzene
- Ethylbenzene
- Toluene
- Total xylenes
- Methyl tert-butyl ether (MTBE)
- Naphthalene
- Arsenic

Appendix C also includes trend plots of water level elevations.

Figures 10 through 19 depict the extent of the groundwater screening level exceedance areas for the following major COCs for both the first and second semiannual 2015 sampling events:

- DRO
- Arsenic
- Benzene
- Naphthalene
- MTBE

Figures 20 through 29 depict the extent of the following water quality COCs for both the first and second semiannual 2015 events, as per the discharge permit requirements (OCD 2012):

- Chloride
- Fluoride
- Sulfate
- Nitrate/Nitrite
- TDS

The general shape of the dissolved-phase plumes for major COCs changed in 2015, but detailed comparison of wells sampled since 2013 shows that plume shape differences are primarily due to slight variations in COC concentrations near the CGWSL through time and fluctuations in PSH presence at thicknesses above and below 0.03 feet in multiple wells that dictated when wells could be sampled.

The analytical results for 2015 are discussed in the following subsections by major areas of interest.

5.3.1 North Colony Landfarm

Groundwater monitoring is ongoing beneath and near the closed NCL. As shown in Table 4, concentrations of several COCs exceeded the CGWSL in samples collected during 2015 from wells in and near the NCL, as discussed in the following subsections.

5.3.1.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Samples were collected from groundwater in MW-54B and MW-55 during the first semiannual sampling event and analyzed for GRO. Samples were collected from groundwater in MW-55 during the second semiannual sampling event and analyzed for GRO. GRO was not detected in any of the samples at concentrations above the reporting limits.

5.3.1.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Samples were collected from groundwater in 14 wells in and near the NCL during the 2015 first semiannual sampling event and analyzed for DRO. These wells included MW-18, MW-45, MW-53, MW-54A, MW-54B, MW-55, MW-56, MW-108, NCL-31, NCL-32, NCL-33, NCL-34A, NCL-44, and NCL-49. DRO was detected in samples collected from all of these wells. The DRO concentrations in the samples collected from NCL-49 (including one field duplicate) were below the CGWSL, while the DRO concentrations in the samples collected from the remaining twelve wells were above the CGWSL.

Samples were collected from groundwater in 11 wells in and near the NCL during the 2015 second semiannual sampling event and analyzed for DRO. These wells included MW-45, MW-54A, MW-55, MW-56, MW-108, NCL-31, NCL-32, NCL-33, NCL-34A, NCL-44, and NCL-49. DRO was detected in samples collected from all of these wells. The DRO concentrations in the samples collected from NCL-49 (including one field duplicate) were below the CGWSL, while the DRO concentrations in the samples collected from the remaining ten wells were above the CGWSL.

Concentrations in individual wells fluctuated slightly between sampling events, but demonstrate an overall stable to slightly increasing trend.

5.3.1.3 Volatile Organic Compounds

Samples were collected from groundwater in 14 wells in and near the NCL and were analyzed for VOCs during the 2015 first semiannual sampling event. These wells included MW-18, MW-45, MW-53, MW-54A, MW-54B, MW-55, MW-56, MW-108, NCL-31, NCL-32, NCL-33, NCL-34A, NCL-44, and NCL-49. Benzene and 1,2,4-trimethylbenzene (1,2,4-TMB) concentrations exceed the CGWSLs in the samples collected from MW-108 and NCL-34A. The concentrations for benzene, 1,2,4-TMB, and all other VOC analytes were below the reporting limits and CGWSLs in samples from all of the other wells in and near the NCL.

Samples were collected from groundwater in 11 wells in and near the NCL during the 2015 second semiannual sampling event and were analyzed for VOCs. These wells included MW-45, MW-54A, MW-55, MW-56, MW-108, NCL-31, NCL-32, NCL-33, NCL-34A, NCL-44, and NCL-49. Benzene and 1,2,4-TMB concentrations exceed the CGWSLs in the samples collected from MW-108 and NCL-34A. The concentrations for benzene, 1,2,4-TMB, and all other VOC analytes were below the reporting limits and CGWSLs in samples from all of the other wells in and near the NCL.

The concentrations of VOCs fluctuated slightly between sampling events, but demonstrate an overall stable trend.

5.3.1.4 Total Metals

Groundwater from the 14 wells in and near the NCL sampled during the 2015 first semiannual event and 11 wells in and near the NCL sampled during the 2015 second semiannual event that were analyzed for DRO were also analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium, chromium, iron, lead, manganese, and selenium). Groundwater samples from wells MW-18, MW-45, and MW-55 were also analyzed for the additional analyte list for total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No exceedances of the CGWSLs were present in any of the groundwater samples collected from the wells in and near the NCL in 2015 for barium, chromium, mercury, nickel, selenium, or vanadium. Exceedances of the CGWSLs occurred for arsenic, iron, lead, and manganese as follows:

- The reported concentrations of arsenic exceeded the CGWSL in groundwater samples collected from well NCL-44 during the 2015 first and second semiannual events.
- The reported concentrations of iron exceeded the CGWSL in groundwater samples collected from well MW-45 during only the 2015 first semiannual event; well NCL-31 during only the 2015 second semiannual event; and wells NCL-32, NCL-33, and NCL-44 during both the 2015 first and second semiannual events.
- The reported concentrations of lead exceeded the CGWSL in groundwater samples collected from well NCL-32 during the 2015 first and second semiannual events.
- The reported concentration of manganese exceeded the CGWSL in the groundwater sample collected from well MW-53 during the 2015 first semiannual event; no samples were collected from MW-53 during the 2015 second semiannual event. The reported concentrations of manganese exceeded the CGWSL in the groundwater samples collected from wells MW-45, MW-54A, MW-56, NCL-31, NCL-32, and NCL-44 during both the 2015 first and second semiannual events.

The concentrations of total metals demonstrates an overall stable trend with fluctuations between sampling events, with the exception of new detections of lead above the CGWSL at NCL-32.

5.3.1.5 Cyanide

Groundwater samples collected from three select wells (MW-18, MW-45, and MW-55) at the NCL were analyzed for cyanide. No detectable concentrations of cyanide were present in the groundwater samples collected from these wells.

5.3.1.6 Water Quality Parameters

Concentrations of chloride, fluoride, nitrate/nitrite, sulfate, and TDS exceed the respective CGWSLs in groundwater samples from various wells in and near the NCL. The reported concentrations of these constituents exhibit an overall stable trend.

5.3.2 Tetra Ethyl Lead Surface Impoundment

Groundwater monitoring beneath the closed TEL surface impoundment is ongoing. Groundwater samples were collected from the four TEL wells (TEL-1, TEL-2, TEL-3, and TEL-4) and MW-49 during the 2015 semiannual monitoring events. As shown in Table 4, concentrations of several COCs exceed the CGWSLs in groundwater samples collected from the TEL wells, as discussed in the following subsections.

5.3.2.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

GRO was reported above reporting limits in groundwater samples collected from TEL-1, TEL-2, TEL-3, TEL-4, and MW-49 during the 2015 first and second semiannual events. The NMED TPH guidance document does not provide a screening value for GRO, but indicates that individual VOCs should be analyzed. The reported concentrations of GRO appear to be stable in groundwater samples from this area.

5.3.2.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Reported concentrations for DRO exceed the CGWSL in groundwater samples collected from TEL-1, TEL-2, TEL-3, TEL-4, and MW-49 during the 2015 first and second semiannual events. Concentrations in samples from individual wells fluctuated between sampling events, but demonstrate an overall stable to decreasing trend.

5.3.2.3 Volatile Organic Compounds

All of the groundwater samples collected from this area were analyzed for VOCs during both 2015 semiannual events. The reported concentrations of all of the VOCs were below the CGWSLs with the exception of 1,2,4-TMB and benzene. Exceedances of the CGWSLs occurred for 1,2,4-TMB and benzene as follows:

- The reported concentrations of 1,2,4-TMB were above the CGWSL for samples collected from well TEL-3 during the 2015 first semiannual event and from wells TEL-2 and TEL-4 during both the 2015 first and second semiannual events.
- The reported concentrations of benzene were above the CGWSL for samples collected from wells MW-49, TEL-2, TEL-3, and TEL-4 during both the 2015 first and second semiannual events.

The concentrations of 1,2,4-TMB and benzene fluctuated slightly between sampling events, but demonstrate an overall stable to slightly decreasing trend.

5.3.2.4 Total Metals

Groundwater samples were collected from TEL-1, TEL-2, TEL-3, TEL-4, and MW-49 and analyzed for the standard metals analyte list identified in Section 5.1 including: arsenic, barium, chromium, iron, lead, manganese, and selenium. Groundwater samples from well MW-49 were also analyzed for the additional analyte list for total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No exceedances of the CGWSLs have been reported during the past three years for barium, lead, mercury, nickel, selenium, or vanadium in groundwater samples from any of the TEL wells. Exceedances of the CGWSLs have not been reported for any metal in groundwater samples from wells TEL-1 and TEL-3. Exceedances of the CGWSLs were reported for arsenic, chromium, iron, and manganese as follows:

- The reported concentrations of arsenic exceeded the CGWSL in the groundwater samples collected from well TEL-4 during the 2015 second semiannual event and from well TEL-2 during both 2015 semiannual events.
- The reported concentrations of chromium exceeded the CGWSL in the groundwater samples collected from well TEL-4 (including one field duplicate) during the 2015 first and second semiannual events.

- The reported concentrations of iron exceeded the CGWSL in the groundwater samples collected from well TEL-4 (including one field duplicate) during the 2015 first semiannual event.
- The reported concentrations of manganese exceeded the CGWSL in the groundwater samples collected from wells MW-49 and TEL-4 during the 2015 first and second semiannual events.

The concentrations of total metals fluctuated between sampling events. A sharp increase in iron concentration was noted in the sample collected from TEL-4 in the 2015 first semiannual event, compared to previous concentrations and the subsequent concentrations in samples collected during the 2015 second semiannual event.

The total metals concentrations at the TEL wells demonstrate an overall stable trend.

5.3.2.5 Cyanide

Groundwater samples collected from MW-49 were analyzed for cyanide. The concentration of cyanide at MW-49 during the 2015 first semiannual event was below the reporting limit; the concentration during the 2015 second semiannual event was estimated and was below the CGWSL.

5.3.2.6 Water Quality Parameters

Concentrations of chloride, fluoride, sulfate, and TDS exceeded the respective CGWSLs in groundwater samples collected during the 2015 semiannual events from various wells in the TEL surface impoundment. The reported concentrations of these constituents exhibit an overall stable trend except for the following:

- A significant increase in reported chloride concentrations was observed in the groundwater samples collected at TEL-2, TEL-3, and TEL-4 during the 2015 first semiannual event, followed by a decrease during the 2015 second semiannual event to concentrations similar to those reported in previous events.
- An overall increase in reported fluoride, sulfate, and TDS concentrations was observed in the groundwater samples collected at TEL-4 during the 2015 second semiannual event.

5.3.3 Evaporation Ponds

Groundwater monitoring is ongoing beneath the inactive former EPs. As shown in Table 4, concentrations of several COCs exceed the CGWSLs in groundwater samples collected from the EP wells, as discussed in the following subsections.

5.3.3.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Groundwater samples were collected from 51 wells in and around the EPs during the 2015 first semiannual sampling event. Samples from 49 of these wells were analyzed for GRO, including: MW-2A, MW-3, MW-4A, MW-4B, MW-5A, MW-5B, MW-5C, MW-6A, MW-6B, MW-7A, MW-7B, MW-10, MW-11A, MW-11B, MW-15, MW-18B, MW-22A, MW-22B, MW-70, MW-72, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-87, MW-88, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6, OCD-7AR, OCD-7B, OCD-8A, and OCD-8B. GRO concentrations were above reporting limits in groundwater samples collected from 23 of these 49 wells.

Groundwater samples were collected from 32 wells in and around the EPs during the 2015 second semiannual sampling event. Samples from 30 of these wells were analyzed for GRO, including: MW-2A, MW-3, MW-4A, MW-5A, MW-7A, MW-10, MW-22A, MW-70, MW-74, MW-75, MW-76, MW-77, MW-79, MW-83, MW-84, MW-87, MW-88, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6, OCD-7AR, and OCD-8A. GRO concentrations were above reporting limits in groundwater samples collected from 24 of these 30 wells.

The NMED (NMED 2012) does not provide a specific screening value for GRO, but indicates that individual VOCs should be analyzed. The reported concentrations of GRO fluctuate through time, but in general show a stable to slightly decreasing trend.

5.3.3.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples were collected from 51 wells in and around the EPs and analyzed for DRO during the 2015 first semiannual sampling event. These wells included MW-1R, MW-2A, MW-3, MW-4A, MW-4B, MW-5A, MW-5B, MW-5C, MW-6A, MW-6B, MW-7A, MW-7B, MW-10, MW-11A, MW-11B, MW-15, MW-18A, MW-18B, MW-22A, MW-22B, MW-70, MW-72, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-87, MW-88, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6,

OCD-7AR, OCD-7B, OCD-8A, and OCD-8B. The reported DRO concentrations were above the CGWSL in groundwater samples collected from 35 of these 51 wells.

Groundwater samples collected from 31 wells in and around the EPs were analyzed for DRO during the 2015 second semiannual sampling event. These wells included MW-2A, MW-3, MW-4A, MW-5A, MW-7A, MW-10, MW-18A, MW-22A, MW-70, MW-74, MW-75, MW-76, MW-77, MW-79, MW-83, MW-84, MW-87, MW-88, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6, OCD-7AR, and OCD-8A. The reported DRO concentrations were above the CGWSL in groundwater samples collected from 22 of these 31 wells.

In general, the DRO concentrations in groundwater samples collected from the EPs exhibit a stable to increasing trend; increasing trends are mostly present in the shallow saturated zone wells within the evaporation ponds, which is reflective of increased rainfall and infiltration into shallow groundwater beneath the evaporation ponds.

5.3.3.3 Volatile Organic Compounds

Groundwater from the 51 wells in and around the EPs sampled during the 2015 first semiannual event and the 31 wells in and around the EPs sampled during the 2015 second semiannual event that were analyzed for DRO were also analyzed for VOCs.

Benzene was the only VOC reported at a concentration above the CGWSL in the groundwater samples collected during the 2015 first semiannual event with exceedances reported in the samples collected from MW-77 and MW-78. No VOCs were reported above their respective CGWSLs in the groundwater samples collected during the 2015 second semiannual event.

5.3.3.4 Total Metals

Groundwater from the 51 wells in and around the EPs sampled during the 2015 first semiannual event and the 31 wells in and around the EPs sampled during the 2015 second semiannual event that were analyzed for DRO were also analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium, chromium, iron, lead, manganese, and selenium). Groundwater samples from wells MW-18A and OCD-8A were also analyzed for the additional analyte list for total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No exceedances of the CGWSLs were present in any of the groundwater samples collected from the wells in and near the EPs in 2015 for barium, lead, mercury, nickel,

or vanadium. Exceedances of the CGWSLs did occur for arsenic, chromium, iron, manganese, and selenium as follows:

- For the 2015 first semiannual sampling event, arsenic concentrations were above the CGWSL in groundwater samples collected from 36 of the 51 wells sampled in and near the EPs. For the 2015 second semiannual sampling event, arsenic concentrations were above the CGWSL in groundwater samples collected from 21 of the 31 wells sampled for total metals in and near the EPs.
- For the 2015 first semiannual sampling event, the chromium concentration was above the CGWSL in the groundwater sample collected from well MW-78. For the 2015 second semiannual sampling event, chromium concentrations were below the CGWSL for all the groundwater samples collected from wells sampled for total metals in and near the EPs.
- For the 2015 first semiannual sampling event, iron concentrations were above the CGWSL in groundwater samples collected from 31 of the 51 wells sampled in and near the EPs. For the 2015 second semiannual sampling event, iron concentrations were above the CGWSL in groundwater samples collected from 20 of the 31 wells sampled for total metals in and near the EPs.
- For the 2015 first semiannual sampling event, manganese concentrations were above the CGWSL in groundwater samples collected from 31 of the 51 wells sampled in and near the EPs. For the 2015 second semiannual sampling event, manganese concentrations were above the CGWSL in groundwater samples collected from 30 of the 31 wells sampled for total metals in and near the EPs.
- For the 2015 first semiannual sampling event, selenium concentrations were above the CGWSL in groundwater samples collected from MW-3, MW-18A, and MW-74. For the 2015 second semiannual sampling event, the selenium concentration was above the CGWSL in the groundwater sample collected from well MW-74.

Total metals concentrations fluctuate through time but exhibit an overall stable trend.

5.3.3.5 Cyanide

Groundwater samples collected from two select wells (MW-18A and OCD-8A) downgradient from the EPs were analyzed for cyanide. No detectable concentrations of cyanide were present in the groundwater samples collected from these wells.

5.3.3.6 *Water Quality Parameters*

Groundwater samples collected from all of the 51 wells in and around the EPs during the 2015 first semiannual event that were analyzed for DRO were also analyzed for all water quality parameters. During the 2015 second semiannual event, groundwater samples collected from 26 of the 32 total wells sampled in and around the EPs were analyzed for all water quality parameters. These wells included MW-2A, MW-3, MW-4A, MW-5A, MW-7A, MW-10, MW-11A, MW-18A, MW-22A, MW-74, MW-75, MW-76, MW-77, MW-79, MW-83, MW-84, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-5, OCD-6, OCD-7AR, and OCD-8A.

Concentrations of chloride, fluoride, nitrate/nitrite, sulfate, and TDS exceeded the respective CGWSLs in groundwater from various wells in and around the EPs. The reported concentrations of these constituents exhibit an overall stable to slightly increasing trend. Chloride and sulfate data from groundwater samples collected at MW-75, MW-76, MW-77, MW-78, and MW-83 (as well as fluoride data at MW-78) were below their respective CGWSLs during the 2015 first semiannual event, however these data were not adjusted for dilution due to laboratory error; see Table 4 for qualifiers to these data.

5.3.4 *Three Mile Ditch*

Groundwater monitoring is ongoing along the inactive, backfilled TMD. As shown in Table 4, concentrations of several COCs exceed the CGWSLs in groundwater samples collected from the TMD wells, as discussed in the following subsections.

5.3.4.1 *Total Petroleum Hydrocarbons – Gasoline Range Organics*

Groundwater samples were collected from 13 wells along TMD during the 2015 first semiannual sampling event. Samples from two of these wells, MW-8 and MW-21, were analyzed for GRO. Reported concentrations of GRO for the samples from both of these wells were below the reporting limit.

Groundwater samples were collected from two wells along TMD during the 2015 second semiannual sampling event. A sample from one of these wells, MW-21, was analyzed for GRO. The reported concentration of GRO for the sample from this well was below the reporting limit.

5.3.4.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples collected from 11 of the 13 wells sampled along TMD during the 2015 first semiannual sampling event were analyzed for DRO. These wells included: MW-8, MW-16, MW-20, MW-21, MW-25, MW-26, MW-27, MW-46R, MW-68, MW-71, and MW-89. Reported concentrations for DRO exceed the CGWSL in groundwater samples collected from MW-49 MW-8, MW-16, MW-25, and MW-89.

A groundwater sample collected from one of the two wells sampled along the TMD during the 2015 second semiannual sampling event, well MW-21, was analyzed for DRO. The reported concentration for DRO was detected below the CGWSL in the groundwater sample collected from MW-21.

Reported concentrations of DRO exhibit a stable to increasing trend.

5.3.4.3 Volatile Organic Compounds

Groundwater samples collected from 13 wells along TMD during the 2015 first semiannual event were analyzed for VOCs. These wells included: MW-8, MW-16, MW-20, MW-21, MW-25, MW-26, MW-27, MW-46R, MW-68, MW-71, MW-89, NP-1, and NP-6.

Groundwater samples collected from two wells along TMD during the 2015 second semiannual event were analyzed for VOCs, including wells MW-21 and NP-1.

MTBE is the only VOC reported at a concentration above the CGWSL in groundwater samples collected from wells along TMD. The reported MTBE concentrations exceeded the CGWSL in the samples collected from NP-1 during the 2015 first and second semiannual events. The MTBE concentration in this well has fluctuated through time, with a sharp decrease in 2014 and a recent increase in concentrations. The reported concentrations in 2015 are similar to the concentrations reported in 2007 (Appendix C). MTBE has not been detected at concentrations exceeding the CGWSL in any of the samples collected from other wells along TMD in the last three years.

5.3.4.4 Total Metals

Groundwater samples collected from the 11 wells along TMD that were analyzed for DRO during the 2015 first semiannual event were also analyzed for the standard analyte list for total metals identified in Section 5. 1 (arsenic, barium, chromium, iron, lead, manganese, and selenium). Groundwater from MW-71 was also analyzed for the

additional analyte list for total metals identified in Section 5.1 (mercury, nickel, and vanadium) during the 2015 first semiannual event.

The groundwater sample collected from MW-21 along TMD during the 2015 second semiannual event was analyzed for the standard analyte list for total metals (arsenic, barium, chromium, iron, lead, manganese, and selenium).

No exceedances of the CGWSLs were present in any of the groundwater samples collected during 2015 from the wells along TMD for barium, iron, lead, mercury, nickel, selenium, or vanadium. The reported concentrations of arsenic, chromium, and manganese were above the CGWSLs as follows:

- The concentration of arsenic reported in the groundwater sample collected from well MW-8 during the 2015 first semiannual sampling event exceeded the CGWSL; however, all other reported concentrations of arsenic in groundwater samples collected from wells along TMD in 2015 were below the CGWSL.
- The concentration of chromium reported in the groundwater sample collected from well MW-8 during the 2015 first semiannual sampling event exceeded the CGWSL; however, all other reported concentrations of chromium in groundwater samples collected from wells along TMD in 2015 were below the CGWSL.
- The reported concentrations of manganese exceeded the CGWSL in groundwater samples from wells MW-8, MW-21, MW-25, and MW-26 during the 2015 first semiannual events. The reported concentration of manganese in the groundwater sample from well MW-21 exceeded the CGWSL during the 2015 second semiannual event.

Reported concentrations of total metals fluctuate through time but exhibit an overall stable trend.

5.3.4.5 Cyanide

Groundwater sampled from well MW-71 during the 2015 first semiannual event were analyzed for cyanide. Cyanide was not detected in the groundwater sample collected from this well.

5.3.4.6 *Water Quality Parameters*

Groundwater samples collected from the wells along TMD that were analyzed for DRO were also analyzed for water quality parameters. Concentrations of chloride, fluoride, nitrate/nitrite, sulfate, and TDS exceeded the respective CGWSLs in groundwater from various wells along TMD. The reported concentrations of these constituents exhibit an overall stable to slightly increasing trend.

5.3.5 North Refinery Area

Groundwater monitoring is ongoing in the northern portion of the active refinery. As shown in Table 4, concentrations of several COCs exceeded the CGWSLs in groundwater samples collected from the North Refinery Area, as discussed in the following subsections.

5.3.5.1 *Total Petroleum Hydrocarbons – Gasoline Range Organics*

Groundwater samples were collected from 26 wells in the North Refinery Area during the 2015 first semiannual event, 24 of which were analyzed for GRO. These 24 wells included: MW-23, MW-29, MW-39, MW-40, MW-41, MW-42, MW-43, MW-59, MW-60, MW-61, MW-62, MW-67, MW-90, MW-91, MW-93, MW-95, MW-96, MW-98, RW-1, RW-2, RW-7, RW-9, RW-10, and RW-17. GRO was detected in groundwater samples from 19 of these 24 wells.

Groundwater samples were collected from 16 wells in the North Refinery Area during the 2015 second semiannual event, all of which were analyzed for GRO. These wells included: MW-23, MW-29, MW-39, MW-43, MW-60, MW-61, MW-62, MW-67, MW-90, MW-91, MW-93, MW-94, MW-96, MW-98, MW-137, and MW-138. GRO was detected in groundwater samples from all 16 of these wells.

The NMED (NMED 2012) does not provide a specific screening value for GRO, but indicates that individual VOCs should be analyzed.

The reported concentrations of GRO fluctuate through time in groundwater samples from most of the wells in this area, but in general show a stable to decreasing trend except for increases noted in 2015 compared to previous years in wells MW-43 and MW-91.

5.3.5.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples were collected from 26 wells in the North Refinery Area and analyzed for DRO during the 2015 first semiannual sampling event. These wells included: MW-23, MW-29, MW-39, MW-40, MW-41, MW-42, MW-43, MW-59, MW-60, MW-61, MW-62, MW-67, MW-90, MW-91, MW-93, MW-95, MW-96, MW-98, RW-1, RW-2, RW-7, RW-8, RW-9, RW-10, RW-16, and RW-17. DRO concentrations were reported above the CGWSL for all groundwater samples collected from these 26 wells.

Groundwater samples were collected from 16 wells in the North Refinery Area and analyzed for DRO during the 2015 second semiannual sampling event. These wells included: MW-23, MW-29, MW-39, MW-43, MW-60, MW-61, MW-62, MW-67, MW-90, MW-91, MW-93, MW-94, MW-96, MW-98, MW-137, and MW-138. DRO concentrations were reported above the CGWSL for all groundwater samples collected from these 16 wells.

The DRO concentrations in groundwater samples from the North Refinery Area show a stable to slightly increasing trend.

5.3.5.3 Volatile Organic Compounds

Groundwater samples collected from the 26 wells during the 2015 first semiannual event and the 16 wells during the 2015 second semiannual event in the North Refinery Area that were analyzed for DRO were also analyzed for VOCs. Various VOCs were present above the CGWSLs, as follows:

- 1,2,4-TMB was present above the CGWSL in groundwater samples collected during the 2015 first and second semiannual events from wells MW-43, MW-61, MW-91, MW-93, and MW-98. 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells MW-42, RW-2, and RW-7 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells MW-94, MW-137, and MW-138 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual event. The concentration of 1,2,4-TMB was above the CGWSL in the groundwater sample from MW-23 collected during the 2015 first semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. The concentration of 1,2,4-TMB was above the CGWSL in the groundwater sample from MW-62 collected during the 2015

second semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.

- 1,2-Dichloropropane was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-43, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- 1,3,5-TMB was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-61, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. 1,3,5-TMB was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-62, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- Benzene was present above the CGWSL in the groundwater samples collected from wells MW-23, MW-43, MW-61, MW-62, MW-67, MW-91, MW-93, and MW-98 during the 2015 first and second semiannual events. Benzene was present above the CGWSL in the groundwater samples collected from wells MW-40, MW-42, MW-59, RW-1, RW-2, RW-7, RW-8, and RW-9 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Benzene was present above the CGWSL in the groundwater samples collected from wells MW-94, MW-137, and MW-138 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual event. Benzene was present above the CGWSL in the groundwater samples collected from wells MW-60 and MW-90 during the 2015 first semiannual event; benzene was detected below the CGWSL in the MW-60 groundwater samples (including a field duplicate) and was reported below the reporting limit in the MW-90 groundwater sample during the 2015 second semiannual event.
- Cis-1,2-Dichloroethene was present above the CGWSL in the groundwater samples collected from wells RW-1 and RW-2 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event.
- Dichloromethane was present above the CGWSL in the groundwater samples collected from wells MW-42, RW-8, and RW-9 during the 2015 first semiannual

event; no groundwater samples were collected from these wells during the 2015 second semiannual event.

- Ethylbenzene was present above the CGWSL in the groundwater sample collected from RW-2 during the 2015 first semiannual event; a groundwater sample was not collected from this well during the 2015 second semiannual event. Ethylbenzene was present above the CGWSL in the groundwater sample collected from MW-137 during the 2015 second semiannual event; a groundwater sample was not collected from this well during the 2015 first semiannual event. Ethylbenzene was present above the CGWSL in the groundwater sample collected from MW-98 during the 2015 first semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- MTBE was present above the CGWSL in groundwater samples collected from wells MW-67 and MW-96 during the 2015 first and second semiannual events. MTBE was present above the CGWSL in the groundwater sample collected from well RW-8 during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. MTBE was present above the CGWSL in the groundwater sample collected from well MW-94 during the 2015 second semiannual event; no groundwater sample was collected from this well during the 2015 first semiannual event.
- Naphthalene was present above the CGWSL in groundwater samples collected from wells MW-23, MW-61, MW-62, MW-91, MW-93, and MW-98 during the 2015 first and second semiannual events. Naphthalene was present above the CGWSL in the groundwater sample RW-2 during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. Naphthalene was present above the CGWSL in the groundwater samples from wells MW-94, MW-137, and MW-138 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual events. Naphthalene was present above the CGWSL in the groundwater sample collected from well MW-43 during the 2015 second semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- o-Xylene was present above the CGWSL in the groundwater samples for wells MW-94 and MW-137 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual event. o-Xylene was present above the CGWSL in the groundwater samples for well MW-

43 during the 2015 second semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.

- Total xylenes were present above the CGWSL in the groundwater samples collected from wells MW-91 and MW-98 during the 2015 first and second semiannual events. Total xylenes were present above the CGWSL in the groundwater sample collected from well MW-137 during the 2015 second semiannual event; no groundwater sample was collected from this well during the 2015 first semiannual event. Total xylenes were present above the CGWSL in the groundwater samples collected from wells MW-23 and MW-61 during the 2015 first semiannual event, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event. Total xylenes were present above the CGWSL in the groundwater samples collected from wells MW-43 and MW-62 during the 2015 second semiannual event, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 first semiannual event.
- Toluene was present above the CGWSL in the groundwater sample collected from well MW-137 during the 2015 second semiannual event; no groundwater sample was collected from this well during the 2015 first semiannual event. Toluene was present above the CGWSL in the groundwater sample collected from well MW-91 during the 2015 first semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. Toluene was present above the CGWSL in the groundwater sample collected from well MW-43 during the 2015 second semiannual event, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- Trichloroethene was present above the CGWSL in the groundwater sample collected from well RW-2 during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event.

The reported concentrations of VOCs have fluctuated through time, but in general appear stable in most of the wells in this area with the exception of increases noted in well MW-43 and decreases noted in wells MW-41, MW-42, MW-60, MW-61, and MW-95.

5.3.5.4 Total Metals

Groundwater samples collected from the 26 wells during the 2015 first semiannual event and the 16 wells during the 2015 second semiannual event in the North Refinery Area that were analyzed for DRO were also analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium, chromium, iron, lead, manganese, and selenium). Groundwater samples collected from wells MW-43, MW-60, and MW-67 during the 2015 first and second semiannual events and groundwater samples collected from MW-137 and MW-138 during the 2015 second semiannual event were also analyzed for the additional analyte list for total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No exceedances of the CGWSLs were present in any of the groundwater samples collected from the wells in the North Refinery Area during 2015 for chromium, lead, mercury, nickel, or vanadium. The following total metals were present above the CGWSLs:

- Arsenic was present above the CGWSL in the groundwater samples collected from wells MW-23 and MW-43 during the 2015 first and second semiannual events. Arsenic was present above the CGWSL in the groundwater samples collected from wells MW-59, RW-2, RW-16, and RW-17 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Arsenic was present above the CGWSL in the groundwater samples collected from wells MW-94 and MW-137 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual event. Arsenic was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-62, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- Barium was present above the CGWSL in the groundwater sample collected from well MW-94 during the 2015 second semiannual event; no groundwater sample was collected from this well during the 2015 first semiannual event. Barium was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-62, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. Barium was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-23, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.

- Iron was present above the CGWSL in the groundwater samples collected from well MW-93 during the 2015 first and second semiannual events. Iron was present above the CGWSL in the groundwater samples collected from wells MW-137 and MW-138 during the 2015 second semiannual event; no groundwater samples were collected from these wells during the 2015 first semiannual event. Iron was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-90, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- Manganese was present above the CGWSL in the groundwater samples collected from wells MW-29 and MW-60 during the 2015 first and second semiannual events. Manganese was present above the CGWSL in the groundwater samples collected from wells MW-41, MW-59, RW-2, RW-9, RW-10, and RW-16 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Manganese was present above the CGWSL in the groundwater sample collected from well MW-138 during the 2015 second semiannual event; no groundwater sample was collected from this well during the 2015 first semiannual event. Manganese was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells MW-23, MW-39, MW-43, MW-90, and MW-93 but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.
- Selenium was present above the CGWSL in the groundwater samples collected from well MW-93 during the 2015 first and second semiannual events. Selenium was present above the CGWSL in the groundwater sample collected from well RW-2 during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. Selenium was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells MW-23, MW-43, MW-61, and MW-98 but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.

Reported concentrations of total metals exhibit an overall stable to slightly increasing trend.

5.3.5.5 Cyanide

Groundwater samples collected from select wells (MW-43, MW-60, MW-67, MW-137, and MW-138) were analyzed for cyanide. Cyanide was not detected above the CGWSL in the groundwater samples collected from these wells.

5.3.5.6 Water Quality Parameters

Concentrations of chloride, fluoride, sulfate, and TDS exceeded the respective CGWSL in groundwater collected from various wells in the North Refinery Area. One concentration of nitrate/nitrite was reported above the CGWSL at the North Refinery Area in the groundwater sample collected from well RW-17 during the 2015 first semiannual event; this concentration is a significant increase from the nitrate/nitrite detection at this well in 2013. The reported concentrations of these constituents exhibit an overall stable or increasing trend.

5.3.6 South Refinery Area

Groundwater monitoring is ongoing in the southern portion of the active refinery. As shown in Table 4, concentrations of several COCs exceed the CGWSL in groundwater samples collected from the South Refinery Area, as discussed in the following subsections.

5.3.6.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Groundwater samples were collected from 23 wells in the South Refinery Area during the 2015 first semiannual event, 15 of which were analyzed for GRO. These 15 wells included: MW-28, MW-48, MW-52, MW-65, MW-66, MW-99, MW-101, MW-102, MW-103, MW-104, MW-105, MW-106, MW-107, MW-109, and MW-110. GRO was detected in groundwater samples from 14 of these 15 wells.

Groundwater samples were collected from 17 wells in the South Refinery Area during the 2015 second semiannual event, 13 of which were analyzed for GRO. These 13 wells included: MW-28, MW-48, MW-52, MW-66, MW-99, MW-101, MW-102, MW-104, MW-105, MW-106, MW-107, MW-109, and MW-110. GRO was detected in groundwater samples from 12 of these 13 wells.

The NMED (NMED 2012) does not provide a specific screening value for GRO, but indicates that individual VOCs should be analyzed.

The reported concentrations of GRO fluctuate through time, but in general show a stable to declining trend during the past three years. The exception is at MW-28; GRO concentrations reported in the groundwater samples from that well show an increasing trend.

5.3.6.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples collected from 22 of the 23 wells sampled in the South Refinery Area during the 2015 first semiannual sampling event were analyzed for DRO. These wells included: KWB-2R, KWB-5, KWB-6, MW-28, MW-48, MW-50, MW-52, MW-65, MW-66, MW-99, MW-101, MW-102, MW-103, MW-104, MW-105, MW-106, MW-107, MW-109, MW-110, RW-4, RW-5R, and RW-6. DRO concentrations were reported above the CGWSL for all groundwater samples collected from these 22 wells.

Groundwater samples were collected from 17 wells in the South Refinery Area and analyzed for DRO during the 2015 second semiannual sampling event. These wells included: KWB-2R, KWB-5, KWB-6, MW-28, MW-48, MW-50, MW-52, MW-66, MW-99, MW-101, MW-102, MW-104, MW-105, MW-106, MW-107, MW-109, and MW-110. DRO concentrations were reported above the CGWSL for the groundwater samples collected from 15 of these 17 wells.

The DRO concentrations in the South Refinery Area show a generally stable trend during the past three years, except wells MW-101 and MW-103 which show increasing trends.

5.3.6.3 Volatile Organic Compounds

Groundwater collected from the wells in the South Refinery Area that was analyzed for DRO was also analyzed for VOCs. In addition, a groundwater sample was collected from an irrigation well, RA-313, located near the southeastern portion of the refinery and analyzed for VOCs during the 2015 first semiannual event. Various VOCs were reported above the CGWSLs, as follows:

- 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells KWB-2R, KWB-6, MW-28, MW-48, MW-99, MW-102, MW-105, and MW-106 during the 2015 first and second semiannual events. 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells MW-65, RW-5R, and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. 1,2,4-TMB was present above the CGWSL in the groundwater sample

collected during the 2015 first semiannual event from well KWB-5, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. 1,2,4-TMB was present above the CGWSL in the groundwater samples collected during the 2015 second semiannual event from wells MW-107 and MW-110, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 first semiannual event.

- 1,2-Dichloroethane was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells KWB-6 and MW-102, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.
- 1,3,5-TMB was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well KWB-6, but the concentration was reported below the reporting limit in the groundwater sample collected during the 2015 second semiannual event.
- Benzene was present above the CGWSL in the groundwater samples collected from wells KWB-2R, KWB-6, MW-28, MW-48, MW-66, MW-99, MW-102, MW-104, MW-105, MW-106, MW-107, MW-109, and MW-110 during the 2015 first and second semiannual events. Benzene was present above the CGWSL in the groundwater samples collected from wells MW-65, RW-4, RW-5R, and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Benzene was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-101, but the concentration was below the reporting limit in the groundwater sample collected during the 2015 second semiannual event. Benzene was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well KWB-5, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- Ethylbenzene was present above the CGWSL in the groundwater samples collected from wells KWB-2R and KWB-6 during the 2015 first and second semiannual events. Ethylbenzene was present above the CGWSL in the groundwater samples collected from wells MW-65 and RW-5R during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Ethylbenzene was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event

from well MW-102, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.

- MTBE was present above the CGWSL in the groundwater samples collected from wells MW-28, MW-48, MW-66, MW-102, and MW-107 during the 2015 first and second semiannual events. MTBE was present above the CGWSL in the groundwater samples collected from wells MW-65, RW-5R, and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. MTBE was present above the CGWSL in the groundwater samples collected during the 2015 second semiannual event from wells KWB-5, KWB-6, and MW-99, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 first semiannual event.
- Naphthalene was present above the CGWSL in the groundwater samples collected from wells MW-66, MW-99, and MW-102 during the 2015 first and second semiannual events. Naphthalene was present above the CGWSL in the groundwater samples collected from wells MW-65, RW-5R, and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Naphthalene was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells KWB-5, KWB-6, and MW-105, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event. Naphthalene was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-106, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- o-Xylene was present above the CGWSL in the groundwater samples collected from wells KWB-6 and MW-102 during the 2015 first and second semiannual events. o-Xylene was present above the CGWSL in the groundwater sample collected from well RW-5R during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. o-Xylene was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-99, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- Total xylenes were present above the CGWSL in the groundwater samples collected from wells KWB-6 and MW-102 during the 2015 first and second

semiannual events. Total xylenes were present above the CGWSL in the groundwater sample collected from well RW-5R during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. Total xylenes were present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-99, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.

- Toluene was present above the CGWSL in the groundwater samples collected from well MW-102 during the 2015 first and second semiannual events. Toluene was present above the CGWSL in the groundwater sample collected from well RW-5R during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event. Toluene was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well KWB-6, but the concentration was below the reporting limit in the groundwater sample collected during the 2015 second semiannual event.

The reported concentrations of VOCs have fluctuated through time, but in general show a stable or decreasing trend with the exception of increases noted in well MW-28.

5.3.6.4 *Total Metals*

Groundwater collected from wells in the South Refinery Area during the 2015 first and second semiannual events that was analyzed for DRO was also analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium, chromium, iron, lead, manganese, and selenium). Groundwater samples collected from well KWB-6 during the 2015 second semiannual event and wells MW-28, MW-52, and MW-66 during the 2015 first and second semiannual events were also analyzed for the additional list of total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No reported concentrations exceeded the CGWSLs for chromium, mercury, nickel, or vanadium in any of the groundwater samples collected from the South Refinery Area. The following total metals were present above the CGWSLs:

- Arsenic was present above the CGWSL in the groundwater samples collected from wells KWB-5 and MW-101 during the 2015 first and second semiannual events. Arsenic was present above the CGWSL in the groundwater samples collected from wells MW-65 and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual

event. Arsenic was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-107, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. Arsenic was present above the CGWSL in the groundwater samples collected during the 2015 second semiannual event from wells KWB-6, MW-48, MW-102, and MW-110 but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 first semiannual event.

- Barium was present above the CGWSL in the groundwater samples collected from wells KWB-5, MW-66, and MW-107 during the 2015 first and second semiannual events. Barium was present above the CGWSL in the groundwater samples collected from wells MW-65, MW-103, and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Barium was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-102, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- Iron was present above the CGWSL in the groundwater samples collected from wells KWB-5, MW-101, and MW-105 during the 2015 first and second semiannual events. Iron was present above the CGWSL in the groundwater samples collected from wells MW-65 and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Iron was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-106, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- Lead was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-106, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- Manganese was present above the CGWSL in the groundwater samples collected from wells KWB-5, KWB-6, MW-50, MW-101, and MW-110 during the 2015 first and second semiannual events. Manganese was present above the CGWSL in the groundwater samples collected from wells MW-65 and RW-6 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Manganese was present above the CGWSL in

the groundwater sample collected during the 2015 first semiannual event from well KWB-2R, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event. Manganese was present above the CGWSL in the groundwater samples collected during the 2015 second semiannual event from wells MW-48 and MW-66, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 first semiannual event.

- Selenium was present above the CGWSL in the groundwater sample collected from well MW-103 during the 2015 first semiannual event; no groundwater sample was collected from this well during the 2015 second semiannual event.

Reported concentrations of total metals exhibit an overall stable to declining trend with the exception of increases noted in well MW-101.

5.3.6.5 Cyanide

Groundwater samples collected from select wells (MW-28, MW-52, and MW-66) were analyzed for cyanide. Cyanide was not detected above the CGWSL in the groundwater samples collected from these wells.

5.3.6.6 Water Quality Parameters

Concentrations of chloride, fluoride, sulfate, TDS, and nitrate/nitrite exceed the respective CGWSLs in groundwater collected from various wells in the South Refinery Area. The reported concentrations of these constituents fluctuate through time but exhibit an overall stable trend.

5.3.7 Field East of Refinery

Groundwater monitoring is ongoing in the field east of the refinery, between the refinery and the EPs. The wells in the pecan orchard east of the field have been included in this group. As shown in Table 4, concentrations of several COCs exceeded the CGWSLs in groundwater samples collected from the field east of the refinery, as discussed in the following subsections.

5.3.7.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Groundwater samples were collected from 29 wells in the field east of the refinery during the 2015 first semiannual event, 18 of which were analyzed for GRO. These 18

wells included: KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-57, MW-111, MW-113, MW-125, MW-126A, MW-126B, MW-127, MW-128, MW-129, MW-130, MW-131, MW-133, MW-134, and MW-135. GRO was detected in groundwater samples from 7 of these 18 wells.

Groundwater samples were collected from 23 wells in the field east of the refinery during the 2015 second semiannual event, 17 of which were analyzed for GRO. These 17 wells included all of the wells analyzed for GRO during the 2015 first semiannual event with the exception of MW-133. GRO was detected in groundwater samples from 7 of these 17 wells.

The NMED (NMED 2012) does not provide a specific screening value for GRO, but indicates that individual VOCs should be analyzed. The reported concentrations of GRO fluctuate through time, but in general show a stable to declining trend.

5.3.7.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples collected from 26 of the 29 wells sampled in the field east of the refinery during the 2015 first semiannual sampling event were analyzed for DRO.

These wells included: KWB-1A, KWB-1C, KWB-7, KWB-10R, KWB-11A, KWB-11B, KWB-12A, KWB-12B, KWB-P4, MW-57, MW-58, MW-111, MW-113, MW-125, MW-126A, MW-126B, MW-127, MW-128, MW-129, MW-130, MW-131, MW-133, MW-134, MW-135, RW-20, and RW-22. DRO concentrations were reported above the CGWSL for the groundwater samples collected from 17 of these 26 wells; note that the DRO concentration exceeded the CGWSL at KWB-12A only for the field duplicate.

Groundwater samples collected from 21 of the 23 wells sampled in the field east of the refinery during the 2015 second semiannual sampling event were analyzed for DRO.

These wells included: KWB-1A, KWB-7, KWB-10R, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-57, MW-58, MW-111, MW-113, MW-125, MW-126A, MW-126B, MW-127, MW-128, MW-129, MW-130, MW-131, MW-134, and MW-135. DRO concentrations were reported above the CGWSL for the groundwater samples collected from 12 of these 21 wells.

Reported concentrations of DRO fluctuate through time but exhibit an overall stable to decreasing trend with the exception of increases noted at wells KWB-11A and MW-58.

5.3.7.3 Volatile Organic Compounds

Groundwater collected from wells in the field east of the refinery that were analyzed for DRO was also analyzed for VOCs during the 2015 semiannual sampling events. In addition, groundwater samples were collected from RA-4196 and RA-4798 during both sampling events and RW-18 during the first sampling event and were analyzed for VOCs. Various VOCs were present above the CGWSLs, as follows:

- 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells KWB-10R, KWB-11A, MW-58, MW-127, and MW-131 during the 2015 first and second semiannual events. 1,2,4-TMB was present above the CGWSL in the groundwater samples collected from wells MW-133, RW-20, and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. 1,2,4-TMB was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well KWB-7, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 second semiannual event.
- 1,3,5-TMB was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells KWB-10R and MW-58, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.
- Benzene was present above the CGWSL in the groundwater samples collected from wells KWB-7, KWB-10R, KWB-11A, MW-58, MW-111, MW-127, MW-128, and MW-131 during the 2015 first and second semiannual events. Benzene was present above the CGWSL in the groundwater samples collected from wells MW-133, RW-20, and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Benzene was present above the CGWSL in the groundwater sample collected during the 2015 first semiannual event from well MW-129, but the concentration was below the reporting limit in the groundwater sample collected during the 2015 second semiannual event (note that the benzene reporting limit at MW-129 for the 2015 second semiannual event exceeded the CGWSL). Benzene was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-126A, but the concentration was below the reporting limit in the groundwater sample collected during the 2015 first semiannual event.

- Ethylbenzene was present above the CGWSL in the groundwater samples collected from well MW-58 during the 2015 first and second semiannual events. Ethylbenzene was present above the CGWSL in the groundwater samples collected from wells RW-20 and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event.
- MTBE was present above the CGWSL in the groundwater samples collected from wells KWB-10R, MW-127, MW-128, MW-129, and MW-131 during the 2015 first and second semiannual events. MTBE was present above the CGWSL in the groundwater samples collected from wells MW-133, RW-20, and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. MTBE was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-111, but the concentration was below the reporting limit in the groundwater sample collected during the 2015 first semiannual event.
- Naphthalene was present above the CGWSL in the groundwater samples collected from wells KWB-10R, MW-58, MW-127, and MW-131 during the 2015 first and second semiannual events. Naphthalene was present above the CGWSL in the groundwater samples collected from wells RW-20 and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event.
- o-Xylene was present above the CGWSL in the groundwater samples collected from well KWB-10R during the 2015 first and second semiannual events.
- Total xylenes were present above the CGWSL in the groundwater samples collected from wells KWB-10R and MW-58 during the 2015 first and second semiannual events. Total xylenes were present above the CGWSL in the groundwater samples collected from wells RW-20 and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event.

The reported concentrations of VOCs have fluctuated through time but exhibit an overall stable to decreasing trend with the exception of increases noted at well MW-58.

5.3.7.4 Total Metals

Groundwater collected from wells in the field east of the refinery that was analyzed for DRO (with the exception of KWB-P4) was also analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium chromium, iron, lead, manganese, and selenium). Groundwater collected from well RW-18 during the 2015 first semiannual sample event was also analyzed for the standard analyte list for total metals listed above. Groundwater samples collected from wells KWB-1A, KWB-7, KWB-11A, KWB-11B, KW-12A, KWB-12B, and MW-58 were also analyzed for the additional list of total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No reported concentrations exceeded the CGWSLs for chromium, lead, mercury, nickel, selenium, or vanadium in any of the groundwater samples collected from wells in the field east of the refinery during the 2015 semiannual events. The following total metals were present above the CGWSLs:

- Arsenic was present above the CGWSL in the groundwater samples collected from wells KWB-10R, MW-111, MW-128, MW-129, and MW-131 during the 2015 first and second semiannual events. Arsenic was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells KWB-7 and MW-58, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.
- Barium was present above the CGWSL in the groundwater samples collected from wells KWB-10R and MW-131 during the 2015 first and second semiannual events. Barium was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-58, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.
- Iron was present above the CGWSL in the groundwater samples collected from wells KWB-7, KWB-10R, MW-58, MW-111, MW-128, MW-129, MW-131, and MW-135 during the 2015 first and second semiannual events. Iron was present above the CGWSL in the groundwater samples collected from wells MW-133 and RW-20 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Iron was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells MW-113 (field duplicate only; parent sample concentration below CGWSL), MW-126A, and MW-127, but the concentrations

were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event.

- Manganese was present above the CGWSL in the groundwater samples collected from wells KWB-1A, KWB-7, MW-111, MW-113, MW-125, MW-126A, MW-128, MW-129, and MW-131 during the 2015 first and second semiannual events. Manganese was present above the CGWSL in the groundwater samples collected from wells KWB-1C, MW-133, RW-20, and RW-22 during the 2015 first semiannual event; no groundwater samples were collected from these wells during the 2015 second semiannual event. Manganese was present above the CGWSL in the groundwater samples collected during the 2015 first semiannual event from wells KWB-11A, MW-130, and MW-135, but the concentrations were below the CGWSL in the groundwater samples collected during the 2015 second semiannual event. Manganese was present above the CGWSL in the groundwater sample collected during the 2015 second semiannual event from well MW-57, but the concentration was below the CGWSL in the groundwater sample collected during the 2015 first semiannual event.

Reported concentrations of total metals fluctuate through time but exhibit an overall stable trend.

5.3.7.5 Cyanide

Groundwater samples collected from select wells (MW-58, KWB-1A, KWB-7, KWB-11A, KWB-11B, KWB-12A, and KWB-12B) were analyzed for cyanide. Cyanide was not detected in the groundwater samples collected from these wells.

5.3.7.6 Water Quality Parameters

Concentrations of chloride, fluoride, nitrate/nitrite, sulfate, and TDS exceeded the respective CGWSL in groundwater collected from various wells in the field east of the refinery. The reported concentrations of these constituents fluctuate through time but exhibit an overall stable trend.

5.3.8 Crossgradient and Upgradient Areas

Groundwater monitoring is ongoing in areas both crossgradient and upgradient from the refinery. The crossgradient wells sampled in 2015 include KWB-13 located south of the refinery, NP-5 located across Eagle Draw to the north of the refinery, and MW-136

located north of the refinery. Upgradient wells include UG-1, UG-2, and UG-3R, all located to the west of the refinery.

Table 4 shows the analytical results for groundwater samples collected from these wells.

5.3.8.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Groundwater samples collected from well MW-136 during the 2015 second semiannual event and wells UG-1, UG-2, and UG-3R during the 2015 first semiannual event were analyzed for GRO. GRO was not detected in any of these groundwater samples. Groundwater samples from crossgradient wells KWB-13 and NP-5 were not analyzed for GRO per the 2014 FWGMWP.

5.3.8.2 Total Petroleum Hydrocarbons – Diesel Range Organics

Groundwater samples collected from well MW-136 during the 2015 second semiannual event and wells KWB-13, NP-5, UG-1, UG-2, and UG-3R during the 2015 first semiannual event were analyzed for DRO. DRO was not detected at concentrations above the CGWSL in any of the groundwater samples from these wells.

5.3.8.3 Volatile Organic Compounds

Groundwater samples from each of the upgradient and crossgradient wells sampled during the 2015 sampling events were analyzed for VOCs; no VOCs were detected at concentrations above the CGWSL in any of the groundwater samples collected from these wells.

5.3.8.4 Total Metals

Groundwater samples collected from well MW-136 during the 2015 second semiannual event and wells KWB-13, NP-5, UG-1, UG-2, and UG-3R during the 2015 first semiannual event were analyzed for the standard analyte list for total metals identified in Section 5.1 (arsenic, barium chromium, iron, lead, manganese, and selenium). Groundwater samples collected from all of these wells with the exception of NP-5 were also analyzed for the additional list of total metals identified in Section 5.1 (mercury, nickel, and vanadium).

No exceedances of the CGWSLs were present in any of the groundwater samples collected from the crossgradient and upgradient in 2015 for barium, chromium,

mercury, nickel, selenium, or vanadium. Exceedances of the CGWSLs occurred for arsenic, iron, lead, and manganese as follows:

- Arsenic was present above the CGWSL in the groundwater sample collected from well KWB-13 during the 2015 first semiannual event.
- Iron was present above the CGWSL in the groundwater samples collected from wells KWB-13 and UG-3R during the 2015 first semiannual event and well MW-136 during the 2015 second semiannual event.
- Lead was present above the CGWSL in the groundwater sample collected from well KWB-13 during the 2015 first semiannual event.
- Manganese was present above the CGWSL in the groundwater samples collected from well KWB-13 during the 2015 first semiannual event and well MW-136 during the 2015 second semiannual event.

Reported concentrations of total metals exhibit an overall stable to increasing trend.

5.3.8.5 Cyanide

Groundwater samples collected from wells KWB-13, MW-136, UG-1, UG-2, and UG-3R and analyzed for cyanide; no cyanide was detected above the reporting limits in any of the groundwater samples from these wells.

5.3.8.6 Water Quality Parameters

Sulfate and TDS were reported at concentrations exceeding CGWSLs in all of the groundwater samples collected from crossgradient and upgradient wells in 2015. Additionally, chloride, fluoride, and nitrate/nitrite were present above the respective CGWSLs as follows:

- Chloride was present above the CGWSL in wells KWB-13 and NP-5 during the 2015 first semiannual event and well MW-136 during the 2015 second semiannual event.
- Fluoride was present above the CGWSL in wells NP-5 and UG-2 during the 2015 first semiannual event.

- Nitrate/nitrite was present above the CGWSL in wells KWB-13 and UG-1 during the 2015 first semiannual event and well MW-136 during the 2015 second semiannual event.

Reported concentrations of water quality parameters exhibit an overall stable to increasing trend.

5.3.9 RO Reject Discharge Fields

The reject water from Navajo's RO system is discharged to agricultural fields north of the refinery. The areas are known as the north RO reject field and south RO reject field. RO reject water is discharged to one or the other field in accordance with GW-028.

Wells MW-114, MW-115, and MW-116 are located in the south RO reject field, while wells MW-117, MW-118, and MW-119 are located in the north RO reject field. Table 4 shows the analytical results for groundwater samples collected from these wells.

5.3.9.1 Total Petroleum Hydrocarbons – Gasoline Range Organics

Groundwater samples collected from the south and north RO reject field wells during the 2015 first and second semiannual events were analyzed for GRO. The only groundwater sample collected from these wells with a detected concentration of GRO was at MW-115 during the 2015 second semiannual event.

5.3.9.2 Total Petroleum Hydrocarbons – Diesel Range Organics

DRO was not detected in the groundwater samples collected from any of the RO reject wells at concentrations above the CGWSL during either the 2015 first or second semiannual events.

5.3.9.3 Volatile Organic Compounds

Various VOCs were detected at concentrations below the CGWSL at wells MW-117 and MW-118 during the 2015 first semiannual event; VOCs were not detected in any of the other groundwater samples collected from the RO reject wells during either the 2015 first or second semiannual events.

5.3.9.4 *Metals*

The standard list for total metals identified in Section 5.1 (arsenic, barium chromium, iron, lead, manganese, and selenium) was analyzed in groundwater samples collected during the 2015 first and second semiannual events from the RO reject field wells. No reported concentrations exceeded the CGWSLs for barium, chromium, lead, or selenium in any of the groundwater samples collected from the RO reject wells during the 2015 semiannual events. The following metals were present above the CGWSLs:

- Arsenic was present above the CGWSL in well MW-118 during the 2015 second semiannual event.
- Iron was present above the CGWSL in wells MW-116 and MW-117 during the 2015 second semiannual event.
- Manganese was present above the CGWSL in well MW-114 during the 2015 first and second semiannual events.

Reported concentrations of total metals fluctuate through time but exhibit an overall stable to decreasing trend.

5.3.9.5 *Cyanide*

No groundwater samples collected from the RO reject wells were analyzed for cyanide.

5.3.9.6 *Water Quality Parameters*

Fluoride, sulfate, and TDS were reported at concentrations exceeding CGWSLs in all of the groundwater samples collected from the RO reject wells in 2015. Additionally, chloride was present above the CGWSL in the groundwater samples collected from well MW-118 during the 2015 first semiannual event and well MW-115 during both the 2015 first and second semiannual events.

Reported concentrations of water quality parameters fluctuate through time but exhibit an overall stable trend.

6. Remediation System Monitoring

The PCC Permit (NMED 2010), Discharge Permit (OCD 2012), and the 2014 FWGMWP (2014) require the recovery of PSH present in the shallow groundwater within and adjacent to the refinery. A system of recovery trenches and recovery wells was installed at the refinery and is used to recover PSH.

As reported in 2014, the Office of the State Engineer (OSE) required that the water pumps be turned off due to diversion of shallow groundwater without water rights. On January 30, 2015, Navajo submitted a letter to the NMED and OCD (Navajo 2015) describing the OSE's request to cease pumping groundwater and presenting the current status of the recovery system operation. The groundwater pumps in all of the recovery wells remained inactive throughout 2015, with the exception of the following recovery well groundwater pump activity: RW-20 throughout 2015, and RW-7 and RW-8R beginning on December 21, 2015. The PSH skimming pumps continued to be operated throughout 2015. Navajo is expeditiously seeking shallow water rights, and other options, to allow for full operation of the recovery system to resume.

6.1 Recovery System with Dedicated Down Hole Pumps

Throughout 2015, recovery of PSH in wells occurred utilizing automated pumps placed in RW-2R, RW-5R, RW-6R, RW-7, RW-8R, RW-12R, RW-13R, RW-14R, RW-15, RW-19, RW-20, and RW-22; PSH was not observed in RW-1R and RW-4R during 2015. Both PSH and groundwater pumps are installed in each recovery well and are typically operated automatically, with remote data recording.

Recovered PSH is pumped into centralized holding tanks, then pumped to Tank 49, associated with the wastewater treatment system, which then transfers the product to crude tanks for processing within the refinery. Recovered groundwater is pumped to the nearest process wastewater sump and directed to the process wastewater treatment system. Thus, recovered PSH is recycled into the refinery process while groundwater is treated to remove residual hydrocarbons.

The volume of recovered groundwater and PSH from each recovery well is metered and recorded weekly. The total volume of fluids recovered throughout 2015 from the recovery system is summarized (by quarter) in Table 5 and the operational records are provided in Appendix E. No additional recovery of PSH beyond the automated recovery system occurred in 2015.

6.2 Estimated Volume of Fluids Recovered

During 2015, an estimated 2,869,078 gallons of groundwater and an estimated 50,481 gallons of PSH were recovered through operation of the automated recovery system. As seen in Table 5 and in Appendix E, the amount of PSH recovered decreased with each successive quarter in 2015. The majority of the PSH recovered came from RW-5R, RW-6R, RW-8R, RW-13R, RW-14R, RW-15, and RW-19 during the first half of 2015, with decreasing amount of PSH recovery occurring in these and other recovery wells in the second half of 2015. This decrease in PSH recovery through the year (as well as from 2014 to 2015) correlates with the decrease in PSH thicknesses measured in the recovery wells, likely due to elevated groundwater levels. This, in conjunction with lack of drawdown by the groundwater pumps, contribute to reduced PSH recovery.

7. Conclusions

The following conclusions are based upon the information obtained during 2015 and comparison to data from prior years:

- Groundwater flow direction and gradient remains generally consistent with that measured during past years. Discharge of the RO reject water to the RO reject fields has shown localized influence on the groundwater gradient, creating a slight mound beneath the South RO reject field. High precipitation in 2015 has resulted in a higher than normal potentiometric surface in both the shallow and deeper water bearing zones, and have resulted in slight changes to the flow direction and gradient in localized areas.
- The PSH plume shapes were modified, as shown in Figures 8 and 9, based on diminishing PSH thicknesses and the disappearance of PSH in wells at the North Refinery Area, South Refinery Area, and field east of the refinery.
- Groundwater concentrations of organic constituents have generally remained stable, although increasing trends were noted in specific areas. The overall shapes of the constituent plumes remain similar to previous years, although slight changes were observed primarily due to slight variations in COC concentrations near the CGWSL through time and fluctuations in PSH presence at thicknesses above and below 0.03 feet in multiple wells that dictated when wells could be sampled.
- Although the background groundwater evaluation has been completed and statistical evaluation confirmed that some of the inorganic COCs are present above the WQCC standards or EPA MCLs, alternative screening levels have not yet been approved for those COCs. It should be noted however, that many of the concentrations of inorganic COCs (manganese, chloride, fluoride, nitrate/nitrite, sulfate, TDS) depicted as “exceedances” in this report may actually be similar to and reflective of background groundwater concentrations.
- The PSH recovery system continued to operate throughout 2015, although for most of the year only the PSH pumps were in use and the groundwater pumps were not operated. Diminishing PSH recovery was observed in each successive quarter in 2015 correlating with declining PSH thickness measured in the subsurface, likely due to elevated groundwater levels. This, in conjunction with lack of drawdown by the groundwater pumps, contribute to reduced PSH recovery.

According to the requirements of the updated PCC Permit (NMED 2010), an updated FWGMWP will be submitted in June 2016.

8. References

Arcadis 2013. SWMU/AOC Group 2 Additional Corrective Action Investigation Report, RCRA Permit NMD048918817. April 2013.

Arcadis 2014a. 2014 Facility Wide Groundwater Monitoring Workplan, NMD048918817 and DP GW-028. June 2014.

Arcadis 2014b. Background Groundwater Evaluation Work Plan, NMD048918817 and DP GW-028. July 2014.

Arcadis 2015a. Evaporation Ponds Phase IV Corrective Action Investigation Report - Revised, NMD048918817. May 2015.

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NMED 2015b. Risk Assessment Guidance for Site Investigations and Remediation. July 2015.

NMED 2015c. Disapproval, 2015 Facility Wide Groundwater Monitoring Workplan, Navajo Refining Company, L.L.C. - Artesia Refinery, EPA ID No. NMD048918817, HWB-NRC-15-008. October 16, 2015.

USEPA 2015. Regional Screening Level (RSL) Summary Table. November 2015.

Tables



Table 1 - Well Information and Gauging Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Associated Area of Concern	Water-Bearing Zone (a)	Well ID	Northing	Easting	Land Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Top of Screen Elevation (ft amsl)	Screen Interval (ft bgs)	Date Measured	Depth to PSH (ft btoc)	Depth to Water (ft btoc)	Water Elevation (b) (ft amsl)	PSH Thickness (ft)
Crossgradient	Shallow	KWB-13	669077.00	524892.42	3366.02	3365.67	Unknown	Unknown	4/14/2015	--	23.93	3341.74	--
Crossgradient	Shallow	KWB-13	669077.00	524892.42	3366.02	3365.67	Unknown	Unknown	10/19/2015	--	21.51	3344.16	--
Crossgradient	Shallow	NP-5	675512.24	524698.19	3346.31	3349.29	3336.06	10.25 to 20	4/14/2015	--	10.20	3339.09	--
Crossgradient	Shallow	NP-5	675512.24	524698.19	3346.31	3349.29	3336.06	10.25 to 20	10/19/2015	--	12.90	3336.39	--
Crossgradient	Shallow	MW-136	675343.45	522975.40	3358.62	3360.83	3348.62	10 to 25	4/14/2015	No activity			
Crossgradient	Shallow	MW-136	675343.45	522975.40	3358.62	3360.83	3348.62	10 to 25	10/19/2015	--	12.15	3348.68	--
EP	Shallow	MW-1R	675135.17	538636.78	3311.58	3313.28	3303.58	8 to 23	4/14/2015	--	10.20	3303.08	--
EP	Shallow	MW-1R	675135.17	538636.78	3311.58	3313.28	3303.58	8 to 23	10/19/2015	--	10.60	3302.68	--
EP	Shallow	MW-2A	675979.09	540803.91	3310.55	3312.97	Unknown	Unknown	4/14/2015	--	10.20	3302.77	--
EP	Shallow	MW-2A	675979.09	540803.91	3310.55	3312.97	Unknown	Unknown	10/19/2015	--	10.53	3302.44	--
EP	Valley Fill	MW-2B	675969.73	540801.44	3309.94	3312.49	3271.44	38.5 to 48	4/14/2015	--	9.76	3302.73	--
EP	Valley Fill	MW-2B	675969.73	540801.44	3309.94	3312.49	3271.44	38.5 to 48	10/19/2015	--	10.52	3301.97	--
EP	Shallow	MW-3	674443.34	540503.24	3309.07	3310.32	Unknown	Unknown	4/14/2015	--	8.21	3302.11	--
EP	Shallow	MW-3	674443.34	540503.24	3309.07	3310.32	Unknown	Unknown	10/19/2015	--	8.21	3302.11	--
EP	Shallow	MW-4A	674083.00	540529.44	3308.64	3312.71	Unknown	Unknown	4/14/2015	--	10.69	3302.02	--
EP	Shallow	MW-4A	674083.00	540529.44	3308.64	3312.71	Unknown	Unknown	10/19/2015	--	11.54	3301.17	--
EP	Valley Fill	MW-4B	674089.71	540541.34	3308.73	3312.01	3248.48	60.25 to 70	4/14/2015	--	9.95	3302.06	--
EP	Valley Fill	MW-4B	674089.71	540541.34	3308.73	3312.01	3248.48	60.25 to 70	10/19/2015	--	10.80	3301.21	--
EP	Shallow	MW-5A	674272.84	541759.78	3306.59	3308.62	Unknown	Unknown	4/14/2015	--	7.23	3301.39	--
EP	Shallow	MW-5A	674272.84	541759.78	3306.59	3308.62	Unknown	Unknown	10/19/2015	--	7.93	3300.69	--
EP	Valley Fill	MW-5B	674272.33	541739.12	3306.71	3308.95	3265.21	41.5 to 50.5	4/14/2015	--	7.46	3301.49	--
EP	Valley Fill	MW-5B	674272.33	541739.12	3306.71	3308.95	3265.21	41.5 to 50.5	10/19/2015	--	8.31	3300.64	--
EP	Valley Fill	MW-5C	674279.57	541728.80	3306.55	3309.28	3247.30	59.25 to 68.75	4/14/2015	--	7.66	3301.62	--
EP	Valley Fill	MW-5C	674279.57	541728.80	3306.55	3309.28	3247.30	59.25 to 68.75	10/19/2015	--	8.51	3300.77	--
EP	Shallow	MW-6A	674427.07	539833.47	3310.40	3313.46	Unknown	Unknown	4/14/2015	--	11.31	3302.15	--
EP	Shallow	MW-6A	674427.07	539833.47	3310.40	3313.46	Unknown	Unknown	10/19/2015	--	12.10	3301.36	--
EP	Valley Fill	MW-6B	674418.57	539834.04	3310.09	3313.35	3270.59	39.5 to 49	4/14/2015	--	11.26	3302.09	--
EP	Valley Fill	MW-6B	674418.57	539834.04	3310.09	3313.35	3270.59	39.5 to 49	10/19/2015	--	12.00	3301.35	--
EP	Shallow	MW-7A	674447.64	542716.01	3306.04	3309.24	Unknown	Unknown	4/14/2015	--	7.71	3301.53	--
EP	Shallow	MW-7A	674447.64	542716.01	3306.04	3309.24	Unknown	Unknown	10/19/2015	--	7.56	3301.68	--
EP	Valley Fill	MW-7B	674455.63	542715.61	3306.05	3307.87	3266.55	39.5 to 49	4/14/2015	--	8.98	3298.89	--
EP	Valley Fill	MW-7B	674455.63	542715.61	3306.05	3307.87	3266.55	39.5 to 49	10/19/2015	--	8.82	3299.05	--
EP	Shallow	MW-10	672121.15	541540.05	3304.14	3304.76	3304.14	0 to 19.4	4/14/2015	--	4.14	3300.62	--
EP	Shallow	MW-10	672121.15	541540.05	3304.14	3304.76	3304.14	0 to 19.4	10/19/2015	--	5.15	3299.61	--
EP	Shallow	MW-11A	677317.73	543675.36	3308.42	3310.76	3302.92	5.5 to 20	4/14/2015	--	9.04	3301.72	--
EP	Shallow	MW-11A	677317.73	543675.36	3308.42	3310.76	3302.92	5.5 to 20	10/19/2015	--	9.42	3301.34	--
EP	Valley Fill	MW-11B	677305.72	543685.50	3308.34	3310.76	3272.84	35.5 to 45	4/14/2015	--	8.97	3301.79	--
EP	Valley Fill	MW-11B	677305.72	543685.50	3308.34	3310.76	3272.84	35.5 to 45	10/19/2015	--	9.37	3301.39	--
EP	Shallow	MW-12	676952.63	541505.50	3310.37	3312.73	3303.87	6.5 to 16	4/14/2015	--	10.03	3302.70	--
EP	Shallow	MW-12	676952.63	541505.50	3310.37	3312.73	3303.87	6.5 to 16	10/19/2015	--	10.25	3302.48	--

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EP	Shallow	MW-13	674951.80	539762.62	3311.95	3314.24	3302.45	9.5 to 19	4/14/2015	--	11.57	3302.67	--
EP	Shallow	MW-13	674951.80	539762.62	3311.95	3314.24	3302.45	9.5 to 19	10/19/2015	--	12.04	3302.20	--
EP	Shallow	MW-14	676122.48	543280.49	3309.44	3311.84	3303.94	5.5 to 20	4/14/2015	--	11.10	3300.74	--
EP	Shallow	MW-14	676122.48	543280.49	3309.44	3311.84	3303.94	5.5 to 20	10/19/2015	--	11.29	3300.55	--
EP	Shallow	MW-15	674731.39	539003.75	3310.97	3313.72	3301.97	9 to 19	4/14/2015	--	11.18	3302.54	--
EP	Shallow	MW-15	674731.39	539003.75	3310.97	3313.72	3301.97	9 to 19	10/19/2015	--	11.56	3302.16	--
EP	Shallow	MW-18A	672548.16	543447.78	3306.33	3308.58	3296.33	10 to 20	4/14/2015	--	9.64	3298.94	--
EP	Shallow	MW-18A	672548.16	543447.78	3306.33	3308.58	3296.33	10 to 20	10/19/2015	--	10.09	3298.49	--
EP	Valley Fill	MW-18B	672557.96	543458.22	3306.23	3308.74	3269.23	37 to 47	4/14/2015	--	9.55	3299.19	--
EP	Valley Fill	MW-18B	672557.96	543458.22	3306.23	3308.74	3269.23	37 to 47	10/19/2015	--	9.97	3298.77	--
EP	Valley Fill	MW-18T	672559.79	543449.75	3306.30	3308.55	3269.30	37 to 47	4/14/2015	--	9.34	3299.21	--
EP	Valley Fill	MW-18T	672559.79	543449.75	3306.30	3308.55	3269.30	37 to 47	10/19/2015	--	9.75	3298.80	--
EP	Shallow	MW-22A	672866.82	541801.63	3305.24	3307.62	3299.74	5.5 to 20.5	4/14/2015	--	6.78	3300.84	--
EP	Shallow	MW-22A	672866.82	541801.63	3305.24	3307.62	3299.74	5.5 to 20.5	10/19/2015	--	7.72	3299.90	--
EP	Valley Fill	MW-22B	672866.58	541786.97	3305.08	3307.63	3262.78	42.3 to 52	4/14/2015	--	6.64	3300.99	--
EP	Valley Fill	MW-22B	672866.58	541786.97	3305.08	3307.63	3262.78	42.3 to 52	10/19/2015	--	7.57	3300.06	--
EP	Shallow	MW-24	676498.23	544101.56	3310.33	3312.85	3295.33	15 to 20	4/14/2015	--	11.74	3301.11	--
EP	Shallow	MW-24	676498.23	544101.56	3310.33	3312.85	3295.33	15 to 20	10/19/2015	--	11.97	3300.88	--
EP	Shallow	MW-69	675962.29	540401.29	3311.40	3313.86	3306.40	5 to 20	4/14/2015	--	10.80	3303.06	--
EP	Shallow	MW-69	675962.29	540401.29	3311.40	3313.86	3306.40	5 to 20	10/19/2015	--	11.00	3302.86	--
EP	Shallow	MW-70	670892.66	542787.60	3303.84	3306.30	3298.84	5 to 20	4/14/2015	--	7.11	3299.19	--
EP	Shallow	MW-70	670892.66	542787.60	3303.84	3306.30	3298.84	5 to 20	10/19/2015	--	7.91	3298.39	--
EP	Shallow	MW-72	676691.27	542662.31	3306.40	3308.45	3304.40	2 to 12	4/14/2015	--	6.42	3302.03	--
EP	Shallow	MW-72	676691.27	542662.31	3306.40	3308.45	3304.40	2 to 12	10/19/2015	--	7.61	3300.84	--
EP	Shallow	MW-73	675910.20	542130.56	3308.02	3310.18	3306.02	2 to 17	4/14/2015	--	7.81	3302.37	--
EP	Shallow	MW-73	675910.20	542130.56	3308.02	3310.18	3306.02	2 to 17	10/19/2015	--	10.88	3299.30	--
EP	Shallow	MW-74	675059.14	541546.30	3307.78	3310.03	3305.78	2 to 17	4/14/2015	--	7.92	3302.11	--
EP	Shallow	MW-74	675059.14	541546.30	3307.78	3310.03	3305.78	2 to 17	10/19/2015	--	9.14	3300.89	--
EP	Shallow	MW-75	674622.31	541132.78	3307.80	3310.21	3304.80	3 to 18	4/14/2015	--	8.23	3301.98	--
EP	Shallow	MW-75	674622.31	541132.78	3307.80	3310.21	3304.80	3 to 18	10/19/2015	--	9.08	3301.13	--
EP	Shallow	MW-76	674482.47	541053.83	3309.70	3311.84	3306.70	3 to 18	4/14/2015	--	9.81	3302.03	--
EP	Shallow	MW-76	674482.47	541053.83	3309.70	3311.84	3306.70	3 to 18	10/19/2015	--	10.68	3301.16	--
EP	Shallow	MW-77	674529.89	541104.86	3307.97	3310.07	3304.97	3 to 18	4/14/2015	--	8.02	3302.05	--
EP	Shallow	MW-77	674529.89	541104.86	3307.97	3310.07	3304.97	3 to 18	10/19/2015	--	8.87	3301.20	--
EP	Shallow	MW-78	674529.23	541073.45	3307.94	3310.14	3305.94	2 to 17	4/14/2015	--	8.07	3302.07	--
EP	Shallow	MW-78	674529.23	541073.45	3307.94	3310.14	3305.94	2 to 17	10/19/2015	--	8.91	3301.23	--
EP	Shallow	MW-79	675349.67	540906.08	3309.08	3311.43	3307.08	2 to 17	4/14/2015	--	9.09	3302.34	--
EP	Shallow	MW-79	675349.67	540906.08	3309.08	3311.43	3307.08	2 to 17	10/19/2015	--	10.17	3301.26	--
EP	Shallow	MW-80	675371.74	540646.46	3310.27	3310.79	3308.27	2 to 17	4/14/2015	--	8.15	3302.64	--
EP	Shallow	MW-80	675371.74	540646.46	3310.27	3310.79	3308.27	2 to 17	10/19/2015	--	8.80	3301.99	--

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EP	Shallow	MW-81	675252.80	540544.47	3310.19	3312.34	3308.19	2 to 17	4/14/2015	--	9.96	3302.38	--
EP	Shallow	MW-81	675252.80	540544.47	3310.19	3312.34	3308.19	2 to 17	10/19/2015	--	10.59	3301.75	--
EP	Shallow	MW-82	675035.42	540806.88	3308.64	3310.75	3306.64	2 to 17	4/14/2015	--	8.52	3302.23	--
EP	Shallow	MW-82	675035.42	540806.88	3308.64	3310.75	3306.64	2 to 17	10/19/2015	--	9.33	3301.42	--
EP	Shallow	MW-83	674524.97	540832.80	3307.93	3310.19	3305.93	2 to 17	4/14/2015	--	8.10	3302.09	--
EP	Shallow	MW-83	674524.97	540832.80	3307.93	3310.19	3305.93	2 to 17	10/19/2015	--	8.93	3301.26	--
EP	Shallow	MW-84	674798.43	540109.13	3309.83	3311.59	3307.83	2 to 17	4/14/2015	--	8.20	3303.39	--
EP	Shallow	MW-84	674798.43	540109.13	3309.83	3311.59	3307.83	2 to 17	10/19/2015	--	8.06	3303.53	--
EP	Shallow	MW-85	674566.12	539805.49	3308.99	3311.09	3305.99	3 to 18	4/14/2015	8.91	9.36	3302.09	0.45
EP	Shallow	MW-85	674566.12	539805.49	3308.99	3311.09	3305.99	3 to 18	10/19/2015	9.54	10.64	3301.33	1.10
EP	Shallow	MW-86	674645.96	539671.17	3308.98	3311.06	3306.98	2 to 17	4/14/2015	8.80	9.11	3302.20	0.31
EP	Shallow	MW-86	674645.96	539671.17	3308.98	3311.06	3306.98	2 to 17	10/19/2015	9.46	9.59	3301.57	0.13
EP	Shallow	MW-87	673379.98	543280.45	3305.42	3307.64	3303.42	2 to 17	4/14/2015	--	7.68	3299.96	--
EP	Shallow	MW-87	673379.98	543280.45	3305.42	3307.64	3303.42	2 to 17	10/19/2015	--	8.37	3299.27	--
EP	Shallow	MW-88	672899.14	540832.09	3306.43	3308.68	3303.43	3 to 18	4/14/2015	--	7.42	3301.26	--
EP	Shallow	MW-88	672899.14	540832.09	3306.43	3308.68	3303.43	3 to 18	10/19/2015	--	8.45	3300.23	--
EP	Shallow	MW-120	674678.95	539555.77	3310.66	3313.55	3300.66	10 to 25	4/14/2015	--	10.94	3302.61	--
EP	Shallow	MW-120	674678.95	539555.77	3310.66	3313.55	3300.66	10 to 25	10/19/2015	--	11.68	3301.87	--
EP	Shallow	MW-121	674851.38	539923.70	3311.77	3314.68	3301.77	10 to 25	4/14/2015	--	12.02	3302.66	--
EP	Shallow	MW-121	674851.38	539923.70	3311.77	3314.68	3301.77	10 to 25	10/19/2015	--	12.11	3302.57	--
EP	Shallow	MW-122	675231.06	540401.60	3308.78	3311.69	3298.78	10 to 20	4/14/2015	--	9.63	3302.06	--
EP	Shallow	MW-122	675231.06	540401.60	3308.78	3311.69	3298.78	10 to 20	10/19/2015	--	10.19	3301.50	--
EP	Shallow	MW-123	671352.15	541523.94	3302.78	3303.98	3292.78	10 to 25	4/14/2015	--	4.51	3299.47	--
EP	Shallow	MW-123	671352.15	541523.94	3302.78	3303.98	3292.78	10 to 25	10/19/2015	--	5.50	3298.48	--
EP	Shallow	MW-124	669844.77	542735.51	3302.99	3305.84	3297.99	5 to 20	4/14/2015	--	7.60	3298.24	--
EP	Shallow	MW-124	669844.77	542735.51	3302.99	3305.84	3297.99	5 to 20	10/19/2015	--	8.46	3297.38	--
EP	Shallow	OCD-1R	676741.31	541568.00	3310.69	3314.27	Unknown	Unknown	4/14/2015	--	11.83	3302.44	--
EP	Shallow	OCD-1R	676741.31	541568.00	3310.69	3314.27	Unknown	Unknown	10/19/2015	--	12.20	3302.07	--
EP	Shallow	OCD-2A	677036.12	542157.14	3310.83	3314.16	3302.33	8.5 to 23.5	4/14/2015	--	11.93	3302.23	--
EP	Shallow	OCD-2A	677036.12	542157.14	3310.83	3314.16	3302.33	8.5 to 23.5	10/19/2015	--	12.12	3302.04	--
EP	Valley Fill	OCD-2B	677034.65	542167.57	3310.66	3313.07	3272.16	38.5 to 48	4/14/2015	--	10.52	3302.55	--
EP	Valley Fill	OCD-2B	677034.65	542167.57	3310.66	3313.07	3272.16	38.5 to 48	10/19/2015	--	11.29	3301.78	--
EP	Shallow	OCD-3	677516.31	543024.47	3310.89	3314.43	3304.39	6.5 to 21.5	4/14/2015	--	12.35	3302.08	--
EP	Shallow	OCD-3	677516.31	543024.47	3310.89	3314.43	3304.39	6.5 to 21.5	10/19/2015	--	12.61	3301.82	--
EP	Shallow	OCD-4	678099.52	543893.55	3310.31	3313.68	3303.81	6.5 to 21.5	4/14/2015	--	11.61	3302.07	--
EP	Shallow	OCD-4	678099.52	543893.55	3310.31	3313.68	3303.81	6.5 to 21.5	10/19/2015	--	11.84	3301.84	--
EP	Shallow	OCD-5	677081.54	544295.35	3308.76	3311.27	Unknown	Unknown	4/14/2015	--	9.76	3301.51	--
EP	Shallow	OCD-5	677081.54	544295.35	3308.76	3311.27	Unknown	Unknown	10/19/2015	--	9.99	3301.28	--
EP	Shallow	OCD-6	676538.82	543540.03	3308.11	3311.40	3300.11	8 to 23	4/14/2015	--	10.41	3300.99	--
EP	Shallow	OCD-6	676538.82	543540.03	3308.11	3311.40	3300.11	8 to 23	10/19/2015	--	10.54	3300.86	--

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Associated Area of Concern	Water-Bearing Zone (a)	Well ID	Northing	Easting	Land Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Top of Screen Elevation (ft amsl)	Screen Interval (ft bgs)	Date Measured	Depth to PSH (ft btoc)	Depth to Water (ft btoc)	Water Elevation (b) (ft amsl)	PSH Thickness (ft)
EP	Shallow	OCD-7AR	676169.74	543071.88	3308.86	3310.03	3303.36	5.5 to 19.5	4/14/2015	--	9.08	3300.95	--
EP	Shallow	OCD-7AR	676169.74	543071.88	3308.86	3310.03	3303.36	5.5 to 19.5	10/19/2015	--	9.68	3300.35	--
EP	Valley Fill	OCD-7B	676157.36	543081.99	3307.57	3310.26	3264.07	43.5 to 52.5	4/14/2015	--	8.98	3301.28	--
EP	Valley Fill	OCD-7B	676157.36	543081.99	3307.57	3310.26	3264.07	43.5 to 52.5	10/19/2015	--	9.52	3300.74	--
EP	Valley Fill	OCD-7C	676155.95	543069.21	3307.74	3310.10	3247.49	60.25 to 69.75	4/14/2015	--	8.17	3301.93	--
EP	Valley Fill	OCD-7C	676155.95	543069.21	3307.74	3310.10	3247.49	60.25 to 69.75	10/19/2015	--	8.89	3301.21	--
EP	Shallow	OCD-8A	674976.41	543376.95	3306.43	3308.72	3303.43	3 to 18	4/14/2015	--	7.93	3300.79	--
EP	Shallow	OCD-8A	674976.41	543376.95	3306.43	3308.72	3303.43	3 to 18	10/19/2015	--	9.03	3299.69	--
EP	Valley Fill	OCD-8B	674992.24	543375.06	3306.11	3309.19	3262.61	43.5 to 53	4/14/2015	--	7.96	3301.23	--
EP	Valley Fill	OCD-8B	674992.24	543375.06	3306.11	3309.19	3262.61	43.5 to 53	10/19/2015	--	8.68	3300.51	--
Field E of Refinery	Shallow	KWB-1A	672969.12	526181.36	3351.25	3353.46	3333.25	18 to 32	4/14/2015	--	10.25	3343.21	--
Field E of Refinery	Shallow	KWB-1A	672969.12	526181.36	3351.25	3353.46	3333.25	18 to 32	10/19/2015	--	8.36	3345.10	--
Field E of Refinery	Shallow	KWB-1B	672968.90	526191.02	3351.14	3352.83	3333.14	18 to 32	4/14/2015	--	12.02	3340.81	--
Field E of Refinery	Shallow	KWB-1B	672968.90	526191.02	3351.14	3352.83	3333.14	18 to 32	10/19/2015	--	9.97	3342.86	--
Field E of Refinery	Valley Fill	KWB-1C	672968.22	526202.95	3351.18	3351.38	3320.68	30.5 to 49.5	4/14/2015	--	12.55	3338.83	--
Field E of Refinery	Valley Fill	KWB-1C	672968.22	526202.95	3351.18	3351.38	3320.68	30.5 to 49.5	10/19/2015	--	10.56	3340.82	--
Field E of Refinery	Shallow	KWB-7	671266.72	529055.47	3343.00	3346.16	3325.00	18 to 32	4/14/2015	--	19.77	3326.39	--
Field E of Refinery	Shallow	KWB-7	671266.72	529055.47	3343.00	3346.16	3325.00	18 to 32	10/19/2015	--	18.12	3328.04	--
Field E of Refinery	Shallow	KWB-8	671000.57	527874.87	3347.90	3350.41	3332.90	15 to 34	4/14/2015	21.12	21.25	3329.26	0.13
Field E of Refinery	Shallow	KWB-8	671000.57	527874.87	3347.90	3350.41	3332.90	15 to 34	10/19/2015	17.19	17.23	3333.21	0.04
Field E of Refinery	Shallow	KWB-10R	671756.34	526206.06	3351.23	3350.97	3342.23	9 to 29	4/14/2015	14.01	14.02	3336.96	0.01
Field E of Refinery	Shallow	KWB-10R	671756.34	526206.06	3351.23	3350.97	3342.23	9 to 29	10/19/2015	13.48	13.49	3337.49	0.01
Field E of Refinery	Shallow	KWB-11A	670643.67	529043.46	3346.13	3348.72	3316.13	30 to 39.5	4/14/2015	--	21.87	3326.85	--
Field E of Refinery	Shallow	KWB-11A	670643.67	529043.46	3346.13	3348.72	3316.13	30 to 39.5	10/19/2015	--	17.70	3331.02	--
Field E of Refinery	Valley Fill	KWB-11B	670653.84	529044.06	3345.91	3348.03	3295.91	50 to 69.5	4/14/2015	--	22.54	3325.49	--
Field E of Refinery	Valley Fill	KWB-11B	670653.84	529044.06	3345.91	3348.03	3295.91	50 to 69.5	10/19/2015	--	18.38	3329.65	--
Field E of Refinery	Shallow	KWB-12A	669074.44	527590.88	3352.01	3351.81	3336.51	15.5 to 24.5	4/14/2015	--	24.17	3327.64	--
Field E of Refinery	Shallow	KWB-12A	669074.44	527590.88	3352.01	3351.81	3336.51	15.5 to 24.5	10/19/2015	--	17.93	3333.88	--
Field E of Refinery	Valley Fill	KWB-12B	669064.18	527590.12	3351.84	3351.63	3326.34	25.5 to 39.5	4/14/2015	--	24.02	3327.61	--
Field E of Refinery	Valley Fill	KWB-12B	669064.18	527590.12	3351.84	3351.63	3326.34	25.5 to 39.5	10/19/2015	--	17.76	3333.87	--
Field E of Refinery	Shallow	KWB-P4	670970.10	537416.92	3305.76	3305.39	Unknown	unknown	4/14/2015	--	3.14	3302.25	--
Field E of Refinery	Shallow	KWB-P4	670970.10	537416.92	3305.76	3305.39	Unknown	unknown	10/19/2015	--	4.19	3301.20	--
Field E of Refinery	Shallow	MW-57	669935.59	527579.02	3350.95	3350.91	3340.95	10 to 30	4/14/2015	--	21.07	3329.84	--
Field E of Refinery	Shallow	MW-57	669935.59	527579.02	3350.95	3350.91	3340.95	10 to 30	10/19/2015	--	15.63	3335.28	--
Field E of Refinery	Shallow	MW-58	670207.27	525197.99	3362.56	3362.22	3349.56	13 to 28	4/14/2015	18.90	18.91	3343.32	0.01
Field E of Refinery	Shallow	MW-58	670207.27	525197.99	3362.56	3362.22	3349.56	13 to 28	10/19/2015	17.25	17.26	3344.97	0.01
Field E of Refinery	Shallow	MW-111	670494.22	525254.30	3362.52	3365.51	3337.52	25 to 40	4/14/2015	--	22.31	3343.20	--
Field E of Refinery	Shallow	MW-111	670494.22	525254.30	3362.52	3365.51	3337.52	25 to 40	10/19/2015	--	21.01	3344.50	--
Field E of Refinery	Shallow	MW-112	670890.64	526198.73	3355.38	3358.38	3330.38	25 to 35	4/14/2015	19.48	19.51	3338.89	0.03
Field E of Refinery	Shallow	MW-112	670890.64	526198.73	3355.38	3358.38	3330.38	25 to 35	10/19/2015	18.27	18.31	3340.10	0.04

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Field E of Refinery	Shallow	MW-113	670693.80	527483.95	3350.06	3352.93	3330.06	20 to 35	4/14/2015	--	22.86	3330.07	--
Field E of Refinery	Shallow	MW-113	670693.80	527483.95	3350.06	3352.93	3330.06	20 to 35	10/19/2015	--	19.09	3333.84	--
Field E of Refinery	Shallow	MW-125	673288.01	524663.00	3355.60	3358.81	3340.60	15 to 25	4/14/2015	--	7.90	3350.91	--
Field E of Refinery	Shallow	MW-125	673288.01	524663.00	3355.60	3358.81	3340.60	15 to 25	10/19/2015	--	5.11	3353.70	--
Field E of Refinery	Shallow	MW-126A	672845.69	525458.24	3353.60	3356.60	3334.60	19 to 34	4/14/2015	--	11.76	3344.84	--
Field E of Refinery	Shallow	MW-126A	672845.69	525458.24	3353.60	3356.60	3334.60	19 to 34	10/19/2015	--	8.90	3347.70	--
Field E of Refinery	Valley Fill	MW-126B	672843.26	525464.41	3353.60	3356.67	3313.60	40 to 50	4/14/2015	--	11.71	3344.96	--
Field E of Refinery	Valley Fill	MW-126B	672843.26	525464.41	3353.60	3356.67	3313.60	40 to 50	10/19/2015	--	8.86	3347.81	--
Field E of Refinery	Shallow	MW-127	672184.21	525464.20	3355.50	3358.39	3335.50	20 to 50	4/14/2015	--	16.48	3341.91	--
Field E of Refinery	Shallow	MW-127	672184.21	525464.20	3355.50	3358.39	3335.50	20 to 50	10/19/2015	--	15.70	3342.69	--
Field E of Refinery	Shallow	MW-128	671846.09	524917.06	3358.80	3358.77	3343.80	15 to 35	4/14/2015	--	12.43	3346.34	--
Field E of Refinery	Shallow	MW-128	671846.09	524917.06	3358.80	3358.77	3343.80	15 to 35	10/19/2015	--	11.36	3347.41	--
Field E of Refinery	Shallow	MW-129	671185.08	524876.72	3361.60	3364.38	3341.60	20 to 50	4/14/2015	20.00	20.02	3344.38	0.02
Field E of Refinery	Shallow	MW-129	671185.08	524876.72	3361.60	3364.38	3341.60	20 to 50	10/19/2015	19.09	19.10	3345.29	0.01
Field E of Refinery	Shallow	MW-130	670331.35	524029.44	3370.20	3369.86	3340.20	30 to 45	4/14/2015	--	18.44	3351.42	--
Field E of Refinery	Shallow	MW-130	670331.35	524029.44	3370.20	3369.86	3340.20	30 to 45	10/19/2015	--	16.79	3353.07	--
Field E of Refinery	Shallow	MW-131	671104.83	525228.77	3360.40	3363.49	3340.40	20 to 50	4/14/2015	--	21.09	3342.40	--
Field E of Refinery	Shallow	MW-131	671104.83	525228.77	3360.40	3363.49	3340.40	20 to 50	10/19/2015	--	20.32	3343.17	--
Field E of Refinery	Shallow	MW-132	670346.80	526629.79	3354.30	3357.12	3339.30	15 to 40	4/14/2015	18.41	18.82	3338.63	0.41
Field E of Refinery	Shallow	MW-132	670346.80	526629.79	3354.30	3357.12	3339.30	15 to 40	10/19/2015	16.74	17.19	3340.29	0.45
Field E of Refinery	Shallow	MW-133	672005.89	527446.73	3343.40	3349.45	3328.40	15 to 35	4/14/2015	--	16.38	3333.07	--
Field E of Refinery	Shallow	MW-133	672005.89	527446.73	3343.40	3349.45	3328.40	15 to 35	10/19/2015	16.28	16.32	3333.16	0.04
Field E of Refinery	Shallow	MW-134	673271.80	527263.99	3343.10	3346.23	3323.10	20 to 30	4/14/2015	--	12.59	3333.64	--
Field E of Refinery	Shallow	MW-134	673271.80	527263.99	3343.10	3346.23	3323.10	20 to 30	10/19/2015	--	13.54	3332.69	--
Field E of Refinery	Shallow	MW-135	671758.72	530211.23	3338.00	3337.65	3303.00	35 to 65	4/14/2015	--	28.37	3309.28	--
Field E of Refinery	Shallow	MW-135	671758.72	530211.23	3338.00	3337.65	3303.00	35 to 65	10/19/2015	--	27.38	3310.27	--
Field E of Refinery	Shallow	RW-12R	670542.50	527519.20	3350.58	3351.54	3335.58	15 to 35	4/14/2015	23.05	23.08	3328.48	0.03
Field E of Refinery	Shallow	RW-12R	670542.50	527519.20	3350.58	3351.54	3335.58	15 to 35	10/19/2015	--	18.80	3332.74	--
Field E of Refinery	Shallow	RW-13R	671049.37	527506.74	3349.60	3351.54	3334.60	15 to 35	4/14/2015	21.32	21.42	3330.20	0.10
Field E of Refinery	Shallow	RW-13R	671049.37	527506.74	3349.60	3351.54	3334.60	15 to 35	10/19/2015	18.17	18.72	3333.26	0.55
Field E of Refinery	Shallow	RW-14R	671592.73	527504.45	3347.39	3349.37	3332.39	15 to 35	4/14/2015	17.22	17.38	3332.12	0.16
Field E of Refinery	Shallow	RW-14R	671592.73	527504.45	3347.39	3349.37	3332.39	15 to 35	10/19/2015	16.64	16.80	3332.70	0.16
Field E of Refinery	Shallow	RW-18A	673750.19	526188.64	3349.04	3350.84	Unknown	Unknown	4/14/2015	--	8.51	3342.33	--
Field E of Refinery	Shallow	RW-18A	673750.19	526188.64	3349.04	3350.84	Unknown	Unknown	10/19/2015	--	4.01	3346.83	--
Field E of Refinery	Shallow	RW-20	671032.06	527790.95	3347.75	3348.44	Unknown	Unknown	4/14/2015	--	1.97	3346.47	--
Field E of Refinery	Shallow	RW-20	671032.06	527790.95	3347.75	3348.44	Unknown	Unknown	10/19/2015	--	2.08	3346.36	--
Field E of Refinery	Shallow	RW-22	671009.70	527889.44	3347.17	3349.21	3335.67	11.5 to 39	4/14/2015	21.13	21.15	3328.08	0.02
Field E of Refinery	Shallow	RW-22	671009.70	527889.44	3347.17	3349.21	3335.67	11.5 to 39	10/19/2015	17.35	17.37	3331.86	0.02
N Refinery	Shallow	MW-23	672851.25	522821.05	3365.09	3368.38	3350.09	15 to 20	4/14/2015	--	7.28	3361.10	--
N Refinery	Shallow	MW-23	672851.25	522821.05	3365.09	3368.38	3350.09	15 to 20	10/19/2015	--	9.76	3358.62	--

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N Refinery	Shallow	MW-29	673481.15	523544.65	3359.79	3360.64	3350.04	9.75 to 19.25	4/14/2015	--	7.24	3353.40	--
N Refinery	Shallow	MW-29	673481.15	523544.65	3359.79	3360.64	3350.04	9.75 to 19.25	10/19/2015	--	7.30	3353.34	--
N Refinery	Shallow	MW-30	674124.92	523550.16	3359.14	3361.98	Unknown	Unknown	4/14/2015	--	6.88	3355.10	--
N Refinery	Shallow	MW-30	674124.92	523550.16	3359.14	3361.98	Unknown	Unknown	10/19/2015	--	7.68	3354.30	--
N Refinery	Shallow	MW-39	673039.50	523422.93	3357.94	3358.79	3343.94	14 to 24	4/14/2015	--	4.80	3353.99	--
N Refinery	Shallow	MW-39	673039.50	523422.93	3357.94	3358.79	3343.94	14 to 24	10/19/2015	--	4.37	3354.42	--
N Refinery	Shallow	MW-40	673161.12	523489.02	3356.56	3356.93	Unknown	Unknown	4/14/2015	--	3.18	3353.75	--
N Refinery	Shallow	MW-40	673161.12	523489.02	3356.56	3356.93	Unknown	Unknown	10/19/2015	--	3.00	3353.93	--
N Refinery	Shallow	MW-41	673379.87	523374.64	3356.38	3356.58	3342.38	14 to 19	4/14/2015	--	3.43	3353.15	--
N Refinery	Shallow	MW-41	673379.87	523374.64	3356.38	3356.58	3342.38	14 to 19	10/19/2015	--	4.01	3352.57	--
N Refinery	Shallow	MW-42	673480.27	523263.53	3355.64	3358.44	Unknown	Unknown	4/14/2015	--	6.60	3351.84	--
N Refinery	Shallow	MW-42	673480.27	523263.53	3355.64	3358.44	Unknown	Unknown	10/19/2015	--	6.17	3352.27	--
N Refinery	Shallow	MW-43	673115.86	522950.40	3363.38	3365.49	3347.88	15.5 to 20.5	4/14/2015	--	8.18	3357.31	--
N Refinery	Shallow	MW-43	673115.86	522950.40	3363.38	3365.49	3347.88	15.5 to 20.5	10/19/2015	--	6.22	3359.27	--
N Refinery	Shallow	MW-59	672814.66	523854.12	3359.44	3362.43	3344.44	15 to 30	4/14/2015	--	6.24	3356.19	--
N Refinery	Shallow	MW-59	672814.66	523854.12	3359.44	3362.43	3344.44	15 to 30	10/19/2015	--	5.59	3356.84	--
N Refinery	Shallow	MW-60	672849.58	524143.12	3359.26	3361.98	3344.26	15 to 30	4/14/2015	--	7.78	3354.20	--
N Refinery	Shallow	MW-60	672849.58	524143.12	3359.26	3361.98	3344.26	15 to 30	10/19/2015	--	6.79	3355.19	--
N Refinery	Shallow	MW-61	672453.76	522578.38	3369.45	3369.47	3355.45	14 to 29	4/14/2015	--	11.28	3358.19	--
N Refinery	Shallow	MW-61	672453.76	522578.38	3369.45	3369.47	3355.45	14 to 29	10/19/2015	--	9.24	3360.23	--
N Refinery	Shallow	MW-62	672650.76	522696.50	3368.35	3368.81	3354.35	14 to 29	4/14/2015	--	10.83	3357.98	--
N Refinery	Shallow	MW-62	672650.76	522696.50	3368.35	3368.81	3354.35	14 to 29	10/19/2015	--	10.38	3358.43	--
N Refinery	Shallow	MW-67	673224.88	522342.43	3365.59	3365.45	3353.59	12 to 27	4/14/2015	--	7.72	3357.73	--
N Refinery	Shallow	MW-67	673224.88	522342.43	3365.59	3365.45	3353.59	12 to 27	10/19/2015	--	6.61	3358.84	--
N Refinery	Shallow	MW-90	672909.28	521960.18	3367.13	3369.42	3362.13	5 to 20	4/14/2015	--	10.43	3358.99	--
N Refinery	Shallow	MW-90	672909.28	521960.18	3367.13	3369.42	3362.13	5 to 20	10/19/2015	--	9.11	3360.31	--
N Refinery	Shallow	MW-91	672945.86	522167.26	3365.72	3367.73	3358.72	7 to 22	4/14/2015	--	9.17	3358.56	--
N Refinery	Shallow	MW-91	672945.86	522167.26	3365.72	3367.73	3358.72	7 to 22	10/19/2015	--	8.12	3359.61	--
N Refinery	Shallow	MW-92	672766.10	522167.26	3366.75	3368.72	3361.75	5 to 20	4/14/2015	10.21	10.26	3358.50	0.05
N Refinery	Shallow	MW-92	672766.10	522167.26	3366.75	3368.72	3361.75	5 to 20	10/19/2015	9.12	9.16	3359.59	0.04
N Refinery	Shallow	MW-93	672897.25	522446.83	3364.22	3363.79	3359.22	5 to 20	4/14/2015	--	5.60	3358.19	--
N Refinery	Shallow	MW-93	672897.25	522446.83	3364.22	3363.79	3359.22	5 to 20	10/19/2015	--	4.93	3358.86	--
N Refinery	Shallow	MW-94	673510.54	522336.27	3365.82	3367.97	3360.82	5 to 20	4/14/2015	10.51	10.55	3357.45	0.04
N Refinery	Shallow	MW-94	673510.54	522336.27	3365.82	3367.97	3360.82	5 to 20	10/19/2015	--	9.61	3358.36	--
N Refinery	Shallow	MW-95	673084.72	522308.89	3366.48	3368.70	3359.48	7 to 22	4/14/2015	--	10.76	3357.94	--
N Refinery	Shallow	MW-95	673084.72	522308.89	3366.48	3368.70	3359.48	7 to 22	10/19/2015	--	9.57	3359.13	--
N Refinery	Shallow	MW-96	673143.60	521917.50	3366.83	3368.92	3359.83	7 to 22	4/14/2015	--	10.29	3358.63	--
N Refinery	Shallow	MW-96	673143.60	521917.50	3366.83	3368.92	3359.83	7 to 22	10/19/2015	--	8.48	3360.44	--
N Refinery	Shallow	MW-97	672660.45	522295.96	3366.38	3365.92	3358.38	8 to 23	4/14/2015	8.36	8.63	3357.51	0.27
N Refinery	Shallow	MW-97	672660.45	522295.96	3366.38	3365.92	3358.38	8 to 23	10/19/2015	Turnaround prevented access to well			

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N Refinery	Shallow	MW-98	672517.05	523220.39	3358.96	3361.36	3345.96	13 to 23	4/14/2015	--	7.40	3353.96	--
N Refinery	Shallow	MW-98	672517.05	523220.39	3358.96	3361.36	3345.96	13 to 23	10/19/2015	--	6.14	3355.22	--
N Refinery	Shallow	MW-137	672923.48	522924.27	3363.15	3364.83	3353.15	10 to 30	4/14/2015	No activity			
N Refinery	Shallow	MW-137	672923.48	522924.27	3363.15	3364.83	3353.15	10 to 30	10/19/2015	--	4.20	3360.63	--
N Refinery	Shallow	MW-138	672876.52	523041.05	3364.73	3363.24	3354.73	10 to 25	4/14/2015	No activity			
N Refinery	Shallow	MW-138	672876.52	523041.05	3364.73	3363.24	3354.73	10 to 25	10/19/2015	--	6.10	3357.14	--
N Refinery	Shallow	RW-1	672825.27	522204.68	3365.29	3367.03	Unknown	Unknown	4/14/2015	--	8.92	3358.11	--
N Refinery	Shallow	RW-1	672825.27	522204.68	3365.29	3367.03	Unknown	Unknown	10/19/2015	--	7.95	3359.08	--
N Refinery	Shallow	RW-2	672781.86	522337.29	3368.17	3368.17	Unknown	Unknown	4/14/2015	--	10.35	3357.82	--
N Refinery	Shallow	RW-2	672781.86	522337.29	3368.17	3368.17	Unknown	Unknown	10/19/2015	--	9.42	3358.75	--
N Refinery	Shallow	RW-7	673579.35	522098.94	3365.03	3367.09	Unknown	Unknown	4/14/2015	--	9.37	3357.72	--
N Refinery	Shallow	RW-7	673579.35	522098.94	3365.03	3367.09	Unknown	Unknown	10/19/2015	--	8.45	3358.64	--
N Refinery	Shallow	RW-8	673266.20	522321.21	3364.89	3368.10	Unknown	Unknown	4/14/2015	--	9.42	3358.68	--
N Refinery	Shallow	RW-8	673266.20	522321.21	3364.89	3368.10	Unknown	Unknown	10/19/2015	--	8.34	3359.76	--
N Refinery	Shallow	RW-9	673423.49	523371.16	3356.30	3359.51	Unknown	Unknown	4/14/2015	--	6.39	3353.12	--
N Refinery	Shallow	RW-9	673423.49	523371.16	3356.30	3359.51	Unknown	Unknown	10/19/2015	--	6.05	3353.46	--
N Refinery	Shallow	RW-10	673076.17	523469.29	3356.12	3360.61	Unknown	Unknown	4/14/2015	--	6.88	3353.73	--
N Refinery	Shallow	RW-10	673076.17	523469.29	3356.12	3360.61	Unknown	Unknown	10/19/2015	--	6.52	3354.09	--
N Refinery	Shallow	RW-16B	673876.71	523156.09	3357.20	3360.97	Unknown	Unknown	4/14/2015	--	9.55	3351.42	--
N Refinery	Shallow	RW-16B	673876.71	523156.09	3357.20	3360.97	Unknown	Unknown	10/19/2015	--	9.13	3351.84	--
N Refinery	Shallow	RW-17A	673978.33	522723.59	3362.76	3364.72	Unknown	Unknown	4/14/2015	--	8.73	3355.99	--
N Refinery	Shallow	RW-17A	673978.33	522723.59	3362.76	3364.72	Unknown	Unknown	10/19/2015	--	8.61	3356.11	--
N RO Reject Field	Shallow	MW-117	674301.52	522979.73	3360.07	3363.01	3350.07	10 to 25	4/14/2015	--	8.53	3354.48	--
N RO Reject Field	Shallow	MW-117	674301.52	522979.73	3360.07	3363.01	3350.07	10 to 25	10/19/2015	--	9.09	3353.92	--
N RO Reject Field	Shallow	MW-118	674819.18	523375.94	3359.62	3361.95	3349.62	10 to 25	4/14/2015	--	9.80	3352.15	--
N RO Reject Field	Shallow	MW-118	674819.18	523375.94	3359.62	3361.95	3349.62	10 to 25	10/19/2015	--	12.88	3349.07	--
N RO Reject Field	Shallow	MW-119	674860.11	524575.80	3353.83	3356.11	3343.83	10 to 25	4/14/2015	--	8.78	3347.33	--
N RO Reject Field	Shallow	MW-119	674860.11	524575.80	3353.83	3356.11	3343.83	10 to 25	10/19/2015	--	10.44	3345.67	--
NCL	Shallow	MW-18	674172.45	522318.86	3363.06	3365.42	3348.06	15 to 19	4/14/2015	--	8.72	3356.70	--
NCL	Shallow	MW-18	674172.45	522318.86	3363.06	3365.42	3348.06	15 to 19	10/19/2015	--	8.96	3356.46	--
NCL	Shallow	MW-19	673597.29	521670.75	3366.00	3368.00	3361.00	5 to 19.5	4/14/2015	--	8.21	3359.79	--
NCL	Shallow	MW-19	673597.29	521670.75	3366.00	3368.00	3361.00	5 to 19.5	10/19/2015	--	7.78	3360.22	--
NCL	Shallow	MW-45	674247.07	523663.75	3351.32	3351.51	3340.82	10.5 to 15.5	4/14/2015	--	2.53	3348.98	--
NCL	Shallow	MW-45	674247.07	523663.75	3351.32	3351.51	3340.82	10.5 to 15.5	10/19/2015	--	3.50	3348.01	--
NCL	Shallow	MW-53	673626.07	521459.12	3368.86	3368.73	3355.06	13.8 to 23.8	4/14/2015	--	9.41	3359.32	--
NCL	Shallow	MW-53	673626.07	521459.12	3368.86	3368.73	3355.06	13.8 to 23.8	10/19/2015	--	8.70	3360.03	--
NCL	Shallow	MW-54A	674138.65	522110.51	3363.55	3366.49	3350.85	12.7 to 27.7	4/14/2015	--	9.63	3356.86	--
NCL	Shallow	MW-54A	674138.65	522110.51	3363.55	3366.49	3350.85	12.7 to 27.7	10/19/2015	--	9.71	3356.78	--

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NCL	Valley Fill	MW-54B	674148.44	522118.80	3363.47	3366.47	3329.67	33.8 to 43.8	4/14/2015	--	9.69	3356.78	--
NCL	Valley Fill	MW-54B	674148.44	522118.80	3363.47	3366.47	3329.67	33.8 to 43.8	10/19/2015	--	9.77	3356.70	--
NCL	Shallow	MW-55	674091.95	522766.46	3361.90	3364.77	3348.20	13.7 to 23.7	4/14/2015	--	9.25	3355.52	--
NCL	Shallow	MW-55	674091.95	522766.46	3361.90	3364.77	3348.20	13.7 to 23.7	10/19/2015	--	9.36	3355.41	--
NCL	Shallow	MW-56	674160.38	523450.14	3354.84	3357.44	3341.44	13.4 to 23.4	4/14/2015	--	8.64	3348.80	--
NCL	Shallow	MW-56	674160.38	523450.14	3354.84	3357.44	3341.44	13.4 to 23.4	10/19/2015	--	9.18	3348.26	--
NCL	Shallow	MW-108	673659.33	521910.16	3366.25	3369.11	3357.25	9 to 24	4/14/2015	--	10.92	3358.19	--
NCL	Shallow	MW-108	673659.33	521910.16	3366.25	3369.11	3357.25	9 to 24	10/19/2015	--	10.07	3359.04	--
NCL	Shallow	NCL-31	673629.51	521669.01	3366.21	3367.54	3353.21	13 to 18	4/14/2015	--	8.22	3359.32	--
NCL	Shallow	NCL-31	673629.51	521669.01	3366.21	3367.54	3353.21	13 to 18	10/19/2015	--	7.52	3360.02	--
NCL	Shallow	NCL-32	673984.83	521808.14	3364.96	3364.91	3347.96	17 to 22	4/14/2015	--	8.08	3356.83	--
NCL	Shallow	NCL-32	673984.83	521808.14	3364.96	3364.91	3347.96	17 to 22	10/19/2015	--	7.91	3357.00	--
NCL	Shallow	NCL-33	673967.20	522245.18	3364.26	3363.97	3351.26	13 to 18	4/14/2015	--	6.98	3356.99	--
NCL	Shallow	NCL-33	673967.20	522245.18	3364.26	3363.97	3351.26	13 to 18	10/19/2015	--	6.93	3357.04	--
NCL	Shallow	NCL-34A	673885.52	522235.08	3364.82	3365.49	3348.82	16 to 21	4/14/2015	--	8.72	3356.77	--
NCL	Shallow	NCL-34A	673885.52	522235.08	3364.82	3365.49	3348.82	16 to 21	10/19/2015	--	8.21	3357.28	--
NCL	Shallow	NCL-44	673986.41	522062.11	3364.01	3364.45	Unknown	Unknown	4/14/2015	--	7.41	3357.04	--
NCL	Shallow	NCL-44	673986.41	522062.11	3364.01	3364.45	Unknown	Unknown	10/19/2015	--	7.01	3357.44	--
NCL	Shallow	NCL-49	674099.16	521648.40	3368.26	3371.13	3351.46	16.8 to 17.8	4/14/2015	--	14.19	3356.94	--
NCL	Shallow	NCL-49	674099.16	521648.40	3368.26	3371.13	3351.46	16.8 to 17.8	10/19/2015	--	13.79	3357.34	--
S Refinery	Shallow	KWB-2R	670207.24	524897.59	3364.56	3364.32	Unknown	Unknown	4/14/2015	19.96	19.97	3344.36	0.01
S Refinery	Shallow	KWB-2R	670207.24	524897.59	3364.56	3364.32	Unknown	Unknown	10/19/2015	18.25	18.26	3346.07	0.01
S Refinery	Shallow	KWB-4	670616.38	524572.44	3368.36	3370.25	3348.36	20 to 39	4/14/2015	22.16	22.28	3348.07	0.12
S Refinery	Shallow	KWB-4	670616.38	524572.44	3368.36	3370.25	3348.36	20 to 39	10/19/2015	20.57	21.27	3349.54	0.70
S Refinery	Shallow	KWB-5	670729.55	525244.51	3362.60	3364.72	3337.90	24.7 to 38.7	4/14/2015	--	21.37	3343.35	--
S Refinery	Shallow	KWB-5	670729.55	525244.51	3362.60	3364.72	3337.90	24.7 to 38.7	10/19/2015	--	20.19	3344.53	--
S Refinery	Shallow	KWB-6	670449.36	526158.70	3358.02	3360.30	3340.52	17.5 to 36.5	4/14/2015	--	20.71	3339.59	--
S Refinery	Shallow	KWB-6	670449.36	526158.70	3358.02	3360.30	3340.52	17.5 to 36.5	10/19/2015	18.81	18.82	3341.49	0.01
S Refinery	Shallow	MW-28	671508.38	524521.56	3366.79	3370.27	3341.79	25 to 30	4/14/2015	--	20.30	3349.97	--
S Refinery	Shallow	MW-28	671508.38	524521.56	3366.79	3370.27	3341.79	25 to 30	10/19/2015	--	18.98	3351.29	--
S Refinery	Shallow	MW-48	670689.39	524080.35	3363.04	3362.97	Unknown	Unknown	4/14/2015	16.55	16.56	3346.42	0.01
S Refinery	Shallow	MW-48	670689.39	524080.35	3363.04	3362.97	Unknown	Unknown	10/19/2015	--	15.01	3347.96	--
S Refinery	Shallow	MW-50	671502.45	521857.84	3368.91	3371.05	Unknown	Unknown	4/14/2015	--	15.15	3355.90	--
S Refinery	Shallow	MW-50	671502.45	521857.84	3368.91	3371.05	Unknown	Unknown	10/19/2015	--	13.29	3357.76	--
S Refinery	Shallow	MW-52	670165.24	523370.99	3368.36	3368.30	Unknown	Unknown	4/14/2015	--	17.30	3351.00	--
S Refinery	Shallow	MW-52	670165.24	523370.99	3368.36	3368.30	Unknown	Unknown	10/19/2015	--	15.81	3352.49	--
S Refinery	Shallow	MW-64	670716.03	523338.61	3365.56	3369.52	3350.56	15 to 30	4/14/2015	17.85	18.03	3351.63	0.18
S Refinery	Shallow	MW-64	670716.03	523338.61	3365.56	3369.52	3350.56	15 to 30	10/19/2015	16.54	16.72	3352.94	0.18
S Refinery	Shallow	MW-65	670949.22	523711.75	3363.84	3363.60	3349.34	14.5 to 29.5	4/14/2015	14.34	14.35	3349.26	0.01
S Refinery	Shallow	MW-65	670949.22	523711.75	3363.84	3363.60	3349.34	14.5 to 29.5	10/19/2015	12.82	12.87	3350.77	0.05

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S Refinery	Shallow	MW-66	671247.57	524560.06	3363.66	3363.46	3349.06	14.6 to 29.6	4/14/2015	--	14.52	3348.94	--
S Refinery	Shallow	MW-66	671247.57	524560.06	3363.66	3363.46	3349.06	14.6 to 29.6	10/19/2015	--	13.20	3350.26	--
S Refinery	Shallow	MW-99	671652.52	524579.74	3365.11	3364.51	3353.11	12 to 27	4/14/2015	--	15.48	3349.03	--
S Refinery	Shallow	MW-99	671652.52	524579.74	3365.11	3364.51	3353.11	12 to 27	10/19/2015	--	13.91	3350.60	--
S Refinery	Shallow	MW-101	671628.25	523506.58	3362.07	3364.23	3354.07	8 to 23	4/14/2015	--	12.74	3351.49	--
S Refinery	Shallow	MW-101	671628.25	523506.58	3362.07	3364.23	3354.07	8 to 23	10/19/2015	--	10.96	3353.27	--
S Refinery	Shallow	MW-102	671176.70	522937.01	3365.51	3367.64	3353.51	12 to 27	4/14/2015	--	14.52	3353.12	--
S Refinery	Shallow	MW-102	671176.70	522937.01	3365.51	3367.64	3353.51	12 to 27	10/19/2015	--	13.03	3354.61	--
S Refinery	Shallow	MW-103	670472.55	522607.80	3370.89	3372.47	3363.89	7 to 22	4/14/2015	--	17.62	3354.85	--
S Refinery	Shallow	MW-103	670472.55	522607.80	3370.89	3372.47	3363.89	7 to 22	10/19/2015	--	16.16	3356.31	--
S Refinery	Shallow	MW-104	670450.35	522729.44	3369.41	3371.43	3366.41	3 to 18	4/14/2015	--	16.51	3354.92	--
S Refinery	Shallow	MW-104	670450.35	522729.44	3369.41	3371.43	3366.41	3 to 18	10/19/2015	--	14.16	3357.27	--
S Refinery	Shallow	MW-105	671924.44	522454.93	3365.20	3364.99	3357.20	8 to 18	4/14/2015	--	8.88	3356.11	--
S Refinery	Shallow	MW-105	671924.44	522454.93	3365.20	3364.99	3357.20	8 to 18	10/19/2015	--	7.75	3357.24	--
S Refinery	Shallow	MW-106	672207.14	523454.55	3359.29	3358.98	3359.29	0 to 11	4/14/2015	--	6.35	3352.63	--
S Refinery	Shallow	MW-106	672207.14	523454.55	3359.29	3358.98	3359.29	0 to 11	10/19/2015	--	5.64	3353.34	--
S Refinery	Shallow	MW-107	671961.38	524600.45	3359.63	3359.44	3347.63	12 to 22	4/14/2015	--	10.02	3349.42	--
S Refinery	Shallow	MW-107	671961.38	524600.45	3359.63	3359.44	3347.63	12 to 22	10/19/2015	--	8.79	3350.65	--
S Refinery	Shallow	MW-109	670174.25	523065.52	3368.27	3368.09	3353.27	15 to 29.5	4/14/2015	--	15.83	3352.26	--
S Refinery	Shallow	MW-109	670174.25	523065.52	3368.27	3368.09	3353.27	15 to 29.5	10/19/2015	--	14.57	3353.52	--
S Refinery	Shallow	MW-110	670174.33	522796.69	3368.46	3368.03	3353.46	15 to 29.5	4/14/2015	--	14.06	3353.97	--
S Refinery	Shallow	MW-110	670174.33	522796.69	3368.46	3368.03	3353.46	15 to 29.5	10/19/2015	--	12.80	3355.23	--
S Refinery	Shallow	RW-4	671378.27	523010.47	3364.41	3364.86	Unknown	Unknown	4/14/2015	--	13.00	3351.86	--
S Refinery	Shallow	RW-4	671378.27	523010.47	3364.41	3364.86	Unknown	Unknown	10/19/2015	--	11.31	3353.55	--
S Refinery	Shallow	RW-5R	671258.01	523662.01	3362.79	3368.56	3349.79	13 to 33	4/14/2015	--	15.80	3352.76	--
S Refinery	Shallow	RW-5R	671258.01	523662.01	3362.79	3368.56	3349.79	13 to 33	10/19/2015	13.80	13.84	3354.75	0.04
S Refinery	Shallow	RW-6	670969.39	522843.22	3366.03	3368.36	Unknown	Unknown	4/14/2015	--	14.19	3354.17	--
S Refinery	Shallow	RW-6	670969.39	522843.22	3366.03	3368.36	Unknown	Unknown	10/19/2015	--	12.74	3355.62	--
S Refinery	Shallow	RW-11-0	669938.15	527541.66	3351.48	3353.95	Unknown	Unknown	4/14/2015	Dry			
S Refinery	Shallow	RW-11-0	669938.15	527541.66	3351.48	3353.95	Unknown	Unknown	10/19/2015	--	18.31	3335.64	--
S Refinery	Shallow	RW-15C	670820.45	524123.41	3362.65	3361.41	Unknown	Unknown	4/14/2015	14.55	14.67	3346.84	0.12
S Refinery	Shallow	RW-15C	670820.45	524123.41	3362.65	3361.41	Unknown	Unknown	10/19/2015	13.00	13.12	3348.39	0.12
S Refinery	Shallow	RW-19	670611.43	524592.99	3367.09	3369.11	3356.09	11 to 46	4/14/2015	22.35	22.81	3346.67	0.46
S Refinery	Shallow	RW-19	670611.43	524592.99	3367.09	3369.11	3356.09	11 to 46	10/19/2015	20.93	21.19	3348.13	0.26
S RO Reject Field	Shallow	MW-114	673082.16	523818.86	3358.62	3361.68	3338.62	20 to 35	4/14/2015	--	3.70	3357.98	--
S RO Reject Field	Shallow	MW-114	673082.16	523818.86	3358.62	3361.68	3338.62	20 to 35	10/19/2015	--	3.79	3357.89	--
S RO Reject Field	Shallow	MW-115	673997.34	523932.93	3356.48	3359.31	3346.48	10 to 25	4/14/2015	--	2.91	3356.40	--
S RO Reject Field	Shallow	MW-115	673997.34	523932.93	3356.48	3359.31	3346.48	10 to 25	10/19/2015	--	3.44	3355.87	--

Table 1 - Well Information and Gauging Data
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Associated Area of Concern	Water-Bearing Zone (a)	Well ID	Northing	Easting	Land Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Top of Screen Elevation (ft amsl)	Screen Interval (ft bgs)	Date Measured	Depth to PSH (ft btoc)	Depth to Water (ft btoc)	Water Elevation (b) (ft amsl)	PSH Thickness (ft)
S RO Reject Field	Shallow	MW-116	673966.06	525339.63	3350.99	3353.77	3340.99	10 to 25	4/14/2015	--	2.90	3350.87	--
S RO Reject Field	Shallow	MW-116	673966.06	525339.63	3350.99	3353.77	3340.99	10 to 25	10/19/2015	--	2.57	3351.20	--
TEL	Shallow	MW-49	672051.80	523610.79	3359.69	3359.77	Unknown	Unknown	4/14/2015	--	8.54	3351.23	--
TEL	Shallow	MW-49	672051.80	523610.79	3359.69	3359.77	Unknown	Unknown	10/19/2015	--	6.59	3353.18	--
TEL	Shallow	TEL-1	672966.33	523412.82	3356.79	3358.23	3343.79	13 to 23	4/14/2015	--	4.73	3353.50	--
TEL	Shallow	TEL-1	672966.33	523412.82	3356.79	3358.23	3343.79	13 to 23	10/19/2015	--	3.81	3354.42	--
TEL	Shallow	TEL-2	672885.90	523419.29	3356.80	3359.12	3343.80	13 to 23	4/14/2015	--	5.70	3353.42	--
TEL	Shallow	TEL-2	672885.90	523419.29	3356.80	3359.12	3343.80	13 to 23	10/19/2015	--	4.71	3354.41	--
TEL	Shallow	TEL-3	672796.06	523459.33	3356.43	3358.33	3343.43	13 to 23	4/14/2015	--	5.00	3353.33	--
TEL	Shallow	TEL-3	672796.06	523459.33	3356.43	3358.33	3343.43	13 to 23	10/19/2015	--	3.98	3354.35	--
TEL	Shallow	TEL-4	672715.99	523181.18	3358.21	3360.24	3345.21	13 to 23	4/14/2015	--	6.82	3353.42	--
TEL	Shallow	TEL-4	672715.99	523181.18	3358.21	3360.24	3345.21	13 to 23	10/19/2015	--	4.51	3355.73	--
TMD	Shallow	MW-8	673215.93	529055.18	3334.81	3336.42	Unknown	Unknown	4/14/2015	--	8.16	3328.26	--
TMD	Shallow	MW-8	673215.93	529055.18	3334.81	3336.42	Unknown	Unknown	10/19/2015	--	8.96	3327.46	--
TMD	Shallow	MW-9	673169.56	529232.03	3334.50	3336.20	Unknown	Unknown	4/14/2015	--	8.67	3327.53	--
TMD	Shallow	MW-9	673169.56	529232.03	3334.50	3336.20	Unknown	Unknown	10/19/2015	--	9.44	3326.76	--
TMD	Shallow	MW-16	675613.35	534389.17	3313.50	3316.12	3305.00	8.5 to 19	4/14/2015	--	6.45	3309.67	--
TMD	Shallow	MW-16	675613.35	534389.17	3313.50	3316.12	3305.00	8.5 to 19	10/19/2015	--	6.74	3309.38	--
TMD	Shallow	MW-20	673800.56	527834.67	3338.43	3340.91	3328.93	9.5 to 23.5	4/14/2015	--	9.73	3331.18	--
TMD	Shallow	MW-20	673800.56	527834.67	3338.43	3340.91	3328.93	9.5 to 23.5	10/19/2015	--	10.59	3330.32	--
TMD	Shallow	MW-21	673180.38	529150.62	3334.65	3337.31	3327.15	7.5 to 22	4/14/2015	--	9.54	3327.77	--
TMD	Shallow	MW-21	673180.38	529150.62	3334.65	3337.31	3327.15	7.5 to 22	10/19/2015	--	10.38	3326.93	--
TMD	Shallow	MW-25	675386.30	537955.86	3310.35	3312.29	3294.60	15.75 to 25.25	4/14/2015	--	7.50	3304.79	--
TMD	Shallow	MW-25	675386.30	537955.86	3310.35	3312.29	3294.60	15.75 to 25.25	10/19/2015	--	11.02	3301.27	--
TMD	Shallow	MW-26	676229.18	535348.61	3312.08	3314.87	3296.83	15.25 to 24.25	4/14/2015	--	7.43	3307.44	--
TMD	Shallow	MW-26	676229.18	535348.61	3312.08	3314.87	3296.83	15.25 to 24.25	10/19/2015	--	7.79	3307.08	--
TMD	Shallow	MW-27	674495.64	532942.65	3319.46	3320.85	3301.21	18.25 to 27.75	4/14/2015	--	12.39	3308.46	--
TMD	Shallow	MW-27	674495.64	532942.65	3319.46	3320.85	3301.21	18.25 to 27.75	10/19/2015	--	14.73	3306.12	--
TMD	Shallow	MW-46R	674223.03	524920.28	3350.41	3350.11	3346.91	3.5 to 18.5	4/14/2015	--	2.30	3347.81	--
TMD	Shallow	MW-46R	674223.03	524920.28	3350.41	3350.11	3346.91	3.5 to 18.5	10/19/2015	--	2.66	3347.45	--
TMD	Shallow	MW-68	674301.02	531466.90	3325.81	3328.21	3311.06	14.75 to 24.5	4/14/2015	--	11.16	3317.05	--
TMD	Shallow	MW-68	674301.02	531466.90	3325.81	3328.21	3311.06	14.75 to 24.5	10/19/2015	--	12.96	3315.25	--
TMD	Shallow	MW-71	673016.80	529560.41	3332.99	3335.29	3323.24	9.75 to 19.5	4/14/2015	--	11.27	3324.02	--
TMD	Shallow	MW-71	673016.80	529560.41	3332.99	3335.29	3323.24	9.75 to 19.5	10/19/2015	--	11.98	3323.31	--
TMD	Shallow	MW-89	675221.56	533835.00	3316.38	3318.32	3314.38	2 to 17	4/14/2015	--	6.68	3311.64	--
TMD	Shallow	MW-89	675221.56	533835.00	3316.38	3318.32	3314.38	2 to 17	10/19/2015	--	8.02	3310.30	--
TMD	Shallow	NP-1	672992.73	528035.04	3339.69	3342.40	3330.19	9.5 to 19	4/14/2015	--	12.52	3329.88	--
TMD	Shallow	NP-1	672992.73	528035.04	3339.69	3342.40	3330.19	9.5 to 19	10/19/2015	--	14.04	3328.36	--

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Navajo Refinery, Artesia, New Mexico

Associated Area of Concern	Water-Bearing Zone (a)	Well ID	Northing	Easting	Land Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Top of Screen Elevation (ft amsl)	Screen Interval (ft bgs)	Date Measured	Depth to PSH (ft btoc)	Depth to Water (ft btoc)	Water Elevation (b) (ft amsl)	PSH Thickness (ft)
TMD	Shallow	NP-2	673571.19	527611.64	3340.58	3342.77	3331.08	9.5 to 18.5	4/14/2015	--	12.43	3330.34	--
TMD	Shallow	NP-2	673571.19	527611.64	3340.58	3342.77	3331.08	9.5 to 18.5	10/19/2015	--	13.23	3329.54	--
TMD	Shallow	NP-3	673990.66	528019.54	3340.40	3342.93	3330.90	9.5 to 18.5	4/14/2015	--	11.18	3331.75	--
TMD	Shallow	NP-3	673990.66	528019.54	3340.40	3342.93	3330.90	9.5 to 18.5	10/19/2015	--	11.92	3331.01	--
TMD	Shallow	NP-4	674337.35	528351.85	3343.24	3345.73	3318.74	24.5 to 33.5	4/14/2015	--	18.39	3327.34	--
TMD	Shallow	NP-4	674337.35	528351.85	3343.24	3345.73	3318.74	24.5 to 33.5	10/19/2015	--	22.48	3323.25	--
TMD	Shallow	NP-6	672945.23	529083.91	3336.31	3338.05	3327.56	8.75 to 18.75	4/14/2015	--	9.53	3328.52	--
TMD	Shallow	NP-6	672945.23	529083.91	3336.31	3338.05	3327.56	8.75 to 18.75	10/19/2015	--	10.66	3327.39	--
TMD	Shallow	NP-8	675399.60	538245.49	3310.53	3314.67	Unknown	Unknown	4/14/2015	--	11.87	3302.80	--
TMD	Shallow	NP-8	675399.60	538245.49	3310.53	3314.67	Unknown	Unknown	10/19/2015	--	12.42	3302.25	--
TMD	Shallow	NP-9	674767.14	523571.69	3357.86	3360.62	Unknown	Unknown	4/14/2015	--	8.97	3351.65	--
TMD	Shallow	NP-9	674767.14	523571.69	3357.86	3360.62	Unknown	Unknown	10/19/2015	--	11.71	3348.91	--
Upgradient	Shallow	UG-1	672453.27	520746.73	3373.02	3372.94	3365.02	8 to 23	4/14/2015	--	13.59	3359.35	--
Upgradient	Shallow	UG-1	672453.27	520746.73	3373.02	3372.94	3365.02	8 to 23	10/19/2015	No activity			
Upgradient	Shallow	UG-2	670726.77	520942.36	3380.30	3380.41	3365.30	15 to 30	4/14/2015	--	18.70	3361.71	--
Upgradient	Shallow	UG-2	670726.77	520942.36	3380.30	3380.41	3365.30	15 to 30	10/19/2015	No activity			
Upgradient	Shallow	UG-3R	671992.70	519424.77	3384.62	3384.08	3367.62	17 to 37	4/14/2015	--	25.95	3358.13	--
Upgradient	Shallow	UG-3R	671992.70	519424.77	3384.62	3384.08	3367.62	17 to 37	10/19/2015	No activity			

Footnotes:

(a) Wells screened in the shallow water-bearing zone are typically screened at depths of 20 to 25 ft bgs. The shallow water-bearing zone varies between confined and unconfined conditions. Wells screened in the valley fill zone are typically screened at depths ranging between 35 and 70 ft bgs. The clay lens separating the shallow and valley fill zones is discontinuous in some locations and thus, in some areas, there is connectivity between the two zones.

(b) Water elevations are adjusted for PSH, if present, using an assumed specific gravity of 0.8.

Semiannual gauging data collected on 4/14/2015 and 10/19/2015 is presented for all wells in this table.

Definitions:

N = North
NCL = North Colony Landfarm
PSH = phase separated hydrocarbons
RO = Reverse Osmosis
S = South
TMD = Three Mile Ditch
TOC = top of casing
unknown = screen interval not readily available

Table 2 - Well Purging and Water Quality Measurement Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Well	Date	Time	Purge Method	Temperature (°C)	Specific Conductivity (S/m)	DO (mg/L)	pH (std units)	ORP (mV)
KWB-1A	4/16/2015	9:30	Low Flow	18.6	0.5420	1.4	6.73	130.0
KWB-1A	10/19/2015	13:20	Low Flow	19.8	0.5130	1.1	6.66	-2.1
KWB-1C	4/16/2015	10:15	Low Flow	20.5	0.5030	1.1	6.67	125.5
KWB-2R	4/16/2015	16:50	Low Flow	20.9	0.2980	1.4	6.81	-288.9
KWB-2R	10/20/2015	13:10	Low Flow	21.9	0.3655	0.6	9.45	-294.8
KWB-5	4/15/2015	15:45	Low Flow	23.7	0.2680	1.6	6.67	118.6
KWB-5	10/20/2015	10:10	Low Flow	21.7	0.2830	1.5	6.55	-217.1
KWB-6	4/15/2015	17:40	Low Flow	21.9	0.2240	1.4	6.70	-241.1
KWB-6	10/20/2015	9:20	Low Flow	20.8	0.2390	1.1	6.57	-284.3
KWB-7	4/15/2015	15:00	Low Flow	19.9	0.3388	0.3	6.71	-148.1
KWB-7	10/19/2015	11:15	Low Flow	19.4	0.3734	0.5	6.85	-132.0
KWB-10R	4/16/2015	11:05	Low Flow	20.1	0.1973	1.4	6.78	-109.4
KWB-10R	10/19/2015	14:25	Low Flow	20.8	0.1800	1.6	6.58	-138.7
KWB-11A	4/15/2015	13:20	Low Flow	19.9	0.6321	0.3	6.41	105.2
KWB-11A	10/19/2015	12:20	Low Flow	18.9	0.7548	0.6	6.34	42.8
KWB-11B	4/15/2015	14:10	Low Flow	20.6	0.3621	0.6	6.61	70.9
KWB-11B	10/19/2015	13:05	Low Flow	19.1	0.3120	1.6	6.59	96.8
KWB-12A	4/16/2015	13:05	Low Flow	22.5	0.3390	2.8	6.78	132.7
KWB-12A	10/20/2015	8:45	Bladder	19.6	0.4277	3.0	6.36	152.6
KWB-12B	4/16/2015	14:40	Low Flow	21.5	0.3510	3.0	6.80	111.1
KWB-12B	10/20/2015	9:30	Low Flow	19.1	0.3978	3.3	6.58	64.8
KWB-13	4/17/2015	10:50	Bladder	17.3	0.3700	4.1	6.85	94.8
KWB-P4	4/16/2015	13:25	Low Flow	19.0	0.5750	1.7	6.93	89.7
MW-1R	4/15/2015	16:10	Low Flow	17.7	0.7510	1.4	7.16	-104.2
MW-2A	4/15/2015	15:55	Low Flow	21.1	2.3400	1.1	6.94	40.3
MW-2A	10/19/2015	15:55	Low Flow	21.8	1.1500	1.1	7.11	-20.6
MW-3	4/17/2015	11:00	Low Flow	17.7	1.1120	1.6	6.97	77.3
MW-3	10/19/2015	12:50	Low Flow	22.9	0.7200	1.3	7.11	25.8
MW-4A	4/17/2015	12:10	Low Flow	17.7	0.6920	1.8	7.11	-191.5
MW-4A	10/19/2015	14:00	Low Flow	23.4	0.5250	1.8	7.32	-291.4
MW-4B	4/15/2015	14:45	Low Flow	21.5	0.4440	3.6	7.05	-182.4
MW-5A	4/16/2015	9:55	Low Flow	17.7	1.5900	4.3	7.25	-195.4
MW-5A	10/19/2015	15:00	Low Flow	23.0	1.7480	2.6	7.19	-170.2
MW-5B	4/16/2015	12:15	Low Flow	19.7	0.7370	0.7	7.06	-122.9
MW-5C	4/16/2015	11:00	Low Flow	19.8	0.3780	0.9	7.29	-85.3
MW-6A	4/15/2015	10:55	Low Flow	18.9	0.8480	1.3	7.21	-76.8
MW-6B	4/15/2015	10:05	Low Flow	19.9	0.7590	0.6	7.10	-83.6
MW-7A	4/16/2015	13:20	Low Flow	19.3	1.1220	0.8	7.25	-18.1
MW-7A	10/19/2015	16:05	Low Flow	21.3	0.8260	1.1	7.28	-92.5
MW-7B	4/16/2015	14:30	Low Flow	21.8	0.4920	0.6	7.17	34.7
MW-8	4/17/2015	12:45	Low Flow	18.3	0.3930	0.6	7.15	-126.0
MW-10	4/15/2015	10:50	Low Flow	19.7	0.6010	0.7	6.95	93.0
MW-10	10/20/2015	10:45	Low Flow	20.2	0.5010	0.8	6.92	-13.9
MW-11A	4/15/2015	12:20	Low Flow	18.6	3.1800	1.6	6.81	92.1
MW-11A	10/19/2015	10:15	Low Flow	21.4	2.7400	0.6	6.88	-42.6

Table 2 - Well Purging and Water Quality Measurement Data
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Well	Date	Time	Purge Method	Temperature (°C)	Specific Conductivity (S/m)	DO (mg/L)	pH (std units)	ORP (mV)
MW-11B	4/15/2015	13:10	Low Flow	20.2	1.7910	2.2	7.04	-109.1
MW-15	4/15/2015	15:10	Low Flow	18.6	0.7890	2.0	7.05	72.5
MW-16	4/15/2015	16:45	Low Flow	18.2	0.5950	0.8	6.81	90.1
MW-18	4/16/2015	13:25	Low Flow	19.6	0.3500	3.1	6.89	49.4
MW-18A	4/16/2015	9:30	Low Flow	18.2	3.6700	2.5	7.11	89.6
MW-18A	10/19/2015	15:50	Low Flow	20.6	3.1100	0.6	7.34	-169.3
MW-18B	4/16/2015	10:20	Low Flow	20.5	0.4660	1.7	6.96	2.1
MW-20	4/17/2015	11:50	Low Flow	20.2	0.4410	1.3	6.98	-117.1
MW-21	4/15/2015	9:35	Low Flow	18.4	0.6032	1.8	6.38	63.7
MW-21	10/19/2015	16:50	Low Flow	20.4	0.6095	1.5	6.69	108.7
MW-22A	4/15/2015	12:40	Low Flow	19.8	0.8220	1.2	7.25	38.1
MW-22A	10/19/2015	9:40	Low Flow	20.9	0.9110	1.3	6.90	-122.5
MW-22B	4/15/2015	13:50	Low Flow	21.2	0.6370	0.9	6.96	-68.1
MW-23	4/15/2015	16:35	Low Flow	22.5	0.5670	1.6	6.83	-397.4
MW-23	10/19/2015	11:20	Low Flow	28.9	0.3110	1.3	6.81	-289.3
MW-25	4/14/2015	17:00	Low Flow	19.5	2.0800	1.9	6.84	90.6
MW-26	4/16/2015	12:55	Low Flow	17.6	0.8971	0.5	7.15	4.3
MW-27	4/16/2015	14:00	Low Flow	22.3	0.3853	0.6	6.70	74.7
MW-28	4/16/2015	14:00	Low Flow	25.1	0.3080	2.3	6.66	-343.4
MW-28	10/20/2015	14:55	Low Flow	22.4	0.2910	1.0	6.38	-370.2
MW-29	4/15/2015	18:35	Low Flow	21.3	0.3940	1.8	6.64	-318.9
MW-29	10/20/2015	8:40	Low Flow	21.5	0.3250	1.3	6.80	-344.2
MW-39	4/16/2015	14:00	Low Flow	20.9	0.3240	0.9	6.84	-344.1
MW-40	4/16/2015	16:20	Low Flow	22.8	0.3330	1.0	6.68	-341.4
MW-41	4/16/2015	17:35	Low Flow	20.2	0.3790	1.2	6.69	-313.7
MW-42	4/17/2015	9:10	Low Flow	18.5	0.4700	1.9	6.67	-301.7
MW-43	4/15/2015	14:40	Low Flow	22.6	0.4080	0.9	6.65	-331.1
MW-39	10/20/2015	8:35	Low Flow	21.5	0.2790	0.5	6.90	-347.2
MW-43	10/19/2015	15:35	Low Flow	24.3	0.5700	1.9	6.70	-402.8
MW-45	4/17/2015	11:15	Low Flow	19.0	0.5520	0.6	6.76	-112.8
MW-45	10/19/2015	16:35	Low Flow	21.9	0.4950	0.9	6.87	-330.1
MW-46R	4/16/2015	8:50	Low Flow	20.9	0.3780	1.3	6.80	124.1
MW-46R	10/20/2015	9:55	Low Flow	23.0	0.5130	1.1	6.77	120.5
MW-48	4/17/2015	12:00	Low Flow	24.0	0.1489	0.9	6.93	-325.6
MW-48	10/20/2015	15:15	Low Flow	23.4	0.2850	1.2	6.89	-361.4
MW-49	4/17/2015	9:50	Low Flow	21.4	0.3370	1.2	6.58	-326.0
MW-49	10/20/2015	13:15	Low Flow	25.5	0.3070	1.4	6.69	-368.5
MW-50	4/15/2015	8:45	Low Flow	19.2	0.3670	1.0	6.96	-283.0
MW-50	10/19/2015	10:25	Low Flow	22.3	0.3460	0.8	7.46	-278.9
MW-52	4/17/2015	12:10	Low Flow	21.3	0.2730	1.6	6.88	109.6
MW-52	10/20/2015	12:30	Low Flow	22.1	0.2740	1.2	6.91	-199.2
MW-53	4/16/2015	17:35	Low Flow	20.3	0.3240	2.0	6.99	50.7
MW-54A	4/16/2015	14:35	Low Flow	21.1	0.2460	3.4	6.65	45.1
MW-54A	10/19/2015	9:25	Low Flow	21.4	0.2530	2.5	6.96	63.5
MW-54B	4/16/2015	15:20	Low Flow	21.0	0.2350	2.1	6.61	71.3

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Well	Date	Time	Purge Method	Temperature (°C)	Specific Conductivity (S/m)	DO (mg/L)	pH (std units)	ORP (mV)
MW-55	4/16/2015	11:30	Low Flow	19.9	0.4720	2.3	6.99	10.2
MW-55	10/19/2015	16:20	Low Flow	21.5	0.3380	2.4	6.99	-69.7
MW-56	4/17/2015	11:20	Low Flow	19.8	0.4480	2.1	6.71	49.3
MW-56	10/20/2015	9:30	Low Flow	22.8	0.4270	1.6	7.21	-224.9
MW-57	4/16/2015	12:10	Low Flow	21.8	0.6350	0.9	6.74	73.1
MW-57	10/20/2015	10:25	Low Flow	19.5	0.5264	1.0	6.36	-16.8
MW-58	4/16/2015	17:50	Low Flow	20.0	0.1768	1.3	6.67	-239.8
MW-58	10/20/2015	12:15	Low Flow	21.8	0.2240	0.7	7.96	-140.9
MW-59	4/16/2015	15:10	Low Flow	23.4	0.3260	1.5	6.83	-266.4
MW-60	4/16/2015	16:10	Low Flow	22.4	0.3570	1.3	6.84	-312.5
MW-60	10/20/2015	11:50	Low Flow	22.0	0.2950	1.1	6.77	-313.8
MW-61	4/15/2015	12:25	Low Flow	22.9	0.3860	1.1	6.58	-364.2
MW-61	10/20/2015	11:35	Low Flow	25.2	0.3090	2.2	6.76	-369.2
MW-62	4/15/2015	13:35	Low Flow	27.3	0.3400	0.8	7.04	-349.4
MW-62	10/20/2015	10:25	Low Flow	23.8	0.4280	1.3	6.57	-381.9
MW-65	4/15/2015	11:40	Low Flow	25.3	0.2230	1.3	6.78	-158.7
MW-66	4/15/2015	17:15	Low Flow	23.3	0.1410	1.2	7.06	-149.6
MW-66	10/20/2015	15:40	Low Flow	21.2	0.1627	0.9	6.78	-254.7
MW-67	4/15/2015	12:30	Low Flow	20.8	0.2360	2.2	7.05	-346.4
MW-67	10/19/2015	14:50	Low Flow	23.5	0.2480	2.0	7.18	-370.0
MW-68	4/16/2015	15:55	Low Flow	19.0	0.4837	0.9	6.57	91.1
MW-70	4/16/2015	11:15	Low Flow	17.6	0.6040	1.5	7.02	-84.1
MW-70	10/19/2015	16:45	Low Flow	20.8	0.6390	0.8	7.24	-102.8
MW-71	4/16/2015	15:00	Low Flow	19.7	0.7113	4.6	6.93	135.7
MW-72	4/16/2015	12:05	Low Flow	18.5	1.6450	0.9	6.87	11.4
MW-73	4/16/2015	15:40	Low Flow	16.9	1.1110	1.9	7.15	75.9
MW-74	4/16/2015	14:30	Low Flow	18.8	0.9830	1.4	7.07	87.9
MW-74	10/19/2015	11:25	Low Flow	21.4	1.0830	0.8	7.05	40.8
MW-75	4/17/2015	9:00	Low Flow	17.3	0.7440	1.6	7.00	-132.2
MW-75	10/19/2015	11:20	Low Flow	22.1	0.6750	1.3	7.01	-144.5
MW-76	4/17/2015	9:55	Low Flow	17.2	0.6280	0.9	7.03	-131.3
MW-76	10/19/2015	9:25	Low Flow	20.8	0.5850	1.0	6.80	-135.7
MW-77	4/17/2015	10:45	Low Flow	18.1	0.7410	3.0	6.98	-82.8
MW-77	10/19/2015	10:15	Low Flow	21.6	0.7220	3.2	6.75	-134.2
MW-78	4/15/2015	10:00	Low Flow	17.2	0.3880	1.4	6.86	-81.6
MW-79	4/16/2015	16:25	Low Flow	18.6	0.7000	0.6	7.10	76.8
MW-79	10/19/2015	10:20	Low Flow	20.1	0.6980	0.9	7.32	-79.4
MW-80	4/16/2015	14:25	Low Flow	19.0	0.7150	0.8	7.01	65.6
MW-81	4/16/2015	13:25	Low Flow	20.0	0.7250	2.7	7.23	63.1
MW-82	4/16/2015	17:00	Low Flow	18.2	0.7310	1.5	7.29	-108.4
MW-83	4/17/2015	11:45	Low Flow	18.7	0.5550	0.9	7.20	-109.6
MW-83	10/19/2015	12:05	Low Flow	23.2	0.3720	0.9	6.95	-10.3
MW-84	4/16/2015	17:35	Low Flow	19.0	0.9430	0.8	7.14	58.2
MW-84	10/19/2015	13:25	Low Flow	23.3	1.1270	0.9	7.30	59.5
MW-87	4/16/2015	8:35	Low Flow	16.9	1.6360	1.6	7.16	34.1

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MW-87	10/19/2015	15:05	Low Flow	22.4	1.5940	0.9	7.29	-166.5
MW-88	4/15/2015	9:55	Low Flow	16.9	1.3680	0.8	7.11	59.2
MW-88	10/20/2015	8:55	Low Flow	19.2	1.4280	1.3	6.98	-7.1
MW-89	4/15/2015	17:40	Low Flow	17.6	0.4419	0.9	6.72	44.1
MW-90	4/15/2015	10:40	Low Flow	19.5	0.4360	1.6	6.98	-351.2
MW-90	10/19/2015	12:05	Low Flow	23.3	0.5210	0.9	7.22	-222.8
MW-91	4/15/2015	9:40	Low Flow	19.9	0.2490	1.0	6.75	-376.9
MW-91	10/19/2015	11:15	Low Flow	23.7	0.2540	1.6	6.83	-395.2
MW-93	4/15/2015	15:35	Low Flow	21.2	0.3600	0.7	6.67	-347.1
MW-93	10/20/2015	12:20	Low Flow	24.1	0.3010	1.2	6.57	-371.6
MW-94	10/19/2015	13:50	Low Flow	24.4	0.3890	3.3	7.13	-415.0
MW-95	4/15/2015	13:30	Low Flow	21.0	0.2550	1.9	6.99	-316.8
MW-96	4/15/2015	11:35	Low Flow	20.2	0.2650	1.7	6.94	-364.2
MW-96	10/19/2015	12:55	Low Flow	23.6	0.2910	1.7	7.05	-376.8
MW-98	4/15/2015	17:35	Low Flow	22.5	0.3590	1.3	6.62	-371.5
MW-98	10/20/2015	7:55	Low Flow	21.0	0.3100	1.1	6.67	-389.1
MW-99	4/15/2015	16:10	Low Flow	23.4	0.0456	1.0	7.75	-120.5
MW-99	10/20/2015	14:25	Low Flow	22.8	0.0676	1.0	6.68	-113.1
MW-101	4/15/2015	8:55	Low Flow	19.6	0.2140	0.4	6.60	-226.7
MW-101	10/20/2015	14:05	Low Flow	23.6	0.2110	1.7	6.76	-178.1
MW-102	4/15/2015	13:50	Low Flow	29.3	0.2030	1.5	6.83	-326.1
MW-102	10/20/2015	12:20	Low Flow	23.2	0.2450	0.8	6.71	-351.3
MW-103	4/15/2015	9:05	Low Flow	24.4	1.9300	0.7	7.23	-325.8
MW-104	4/15/2015	9:55	Low Flow	18.8	0.1525	0.5	7.22	-301.9
MW-104	10/20/2015	13:10	Low Flow	22.1	0.1098	0.3	7.57	-353.6
MW-105	4/15/2015	9:25	Low Flow	19.1	0.0887	0.1	6.71	-301.7
MW-105	10/20/2015	14:25	Low Flow	24.5	0.0778	0.9	6.92	-335.8
MW-106	4/17/2015	8:25	Low Flow	20.3	0.2190	0.3	7.17	-32.6
MW-106	10/20/2015	12:25	Low Flow	24.9	0.3510	2.6	6.66	-390.6
MW-107	4/16/2015	12:50	Low Flow	23.0	0.2010	1.2	6.95	-181.4
MW-107	10/20/2015	13:25	Low Flow	24.0	0.3430	1.2	6.82	-184.5
MW-108	4/16/2015	8:45	Low Flow	18.7	0.2930	1.5	6.81	-374.2
MW-108	10/20/2015	9:15	Low Flow	20.4	0.2830	1.5	6.88	-398.3
MW-109	4/17/2015	13:15	Low Flow	23.2	0.4010	1.4	6.85	-308.6
MW-109	10/20/2015	11:45	Low Flow	23.6	0.3570	1.6	6.74	-333.3
MW-110	4/17/2015	14:00	Low Flow	22.2	0.1946	0.7	7.06	-259.9
MW-110	10/20/2015	10:55	Low Flow	23.1	0.2450	0.7	6.88	-297.5
MW-111	4/15/2015	16:40	Low Flow	24.6	0.2650	2.1	6.61	-45.7
MW-111	10/19/2015	8:25	Low Flow	21.0	0.2710	1.7	6.55	-74.7
MW-113	4/17/2015	9:30	Low Flow	18.3	0.2480	1.9	6.58	-41.3
MW-113	10/20/2015	11:15	Low Flow	20.6	0.2927	1.1	6.43	1.5
MW-114	4/16/2015	10:45	Low Flow	18.5	0.3851	0.8	6.07	101.2
MW-114	10/20/2015	9:00	Low Flow	21.0	0.4180	0.8	6.34	107.6
MW-115	4/16/2015	9:50	Low Flow	16.1	0.6513	0.7	6.38	74.7
MW-115	10/20/2015	8:10	Low Flow	20.1	0.5370	0.9	6.68	168.4

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MW-116	4/16/2015	9:45	Low Flow	21.4	0.3190	1.7	6.89	108.8
MW-116	10/20/2015	15:55	Low Flow	22.0	0.3520	1.5	7.20	166.7
MW-117	4/15/2015	9:20	Low Flow	14.7	0.3350	2.3	6.68	100.4
MW-117	10/20/2015	13:25	Low Flow	19.6	0.3050	1.2	6.84	-76.0
MW-118	4/15/2015	10:00	Low Flow	16.5	0.3790	3.8	6.70	125.5
MW-118	10/20/2015	14:15	Low Flow	20.7	0.4040	4.2	6.65	-20.2
MW-119	4/15/2015	10:45	Low Flow	16.9	0.2770	1.8	6.75	128.8
MW-119	10/20/2015	15:10	Low Flow	21.1	0.2480	6.4	6.71	-19.5
MW-120	4/15/2015	11:55	Low Flow	18.9	1.2110	0.7	7.03	-81.4
MW-120	10/19/2015	17:45	Low Flow	20.8	1.2700	0.7	7.19	-91.1
MW-121	4/15/2015	12:55	Low Flow	19.6	0.7800	0.7	7.20	-37.7
MW-121	10/29/2015	16:55	Low Flow	21.8	0.7220	0.7	7.30	-14.1
MW-122	4/15/2015	14:35	Low Flow	19.9	1.6230	0.9	7.04	86.0
MW-122	10/19/2015	14:45	Low Flow	20.8	0.7700	1.0	7.37	-80.8
MW-123	4/15/2015	11:45	Low Flow	21.1	0.6570	0.7	6.99	99.4
MW-123	10/20/2015	11:35	Low Flow	20.3	0.5160	1.0	7.00	-16.7
MW-124	4/16/2015	12:10	Low Flow	17.7	1.2350	1.9	6.94	-58.2
MW-124	10/19/2015	17:30	Low Flow	21.4	1.1940	0.6	7.12	-84.9
MW-125	4/16/2015	10:35	Low Flow	21.6	0.4370	1.3	6.83	120.4
MW-125	10/20/2015	10:55	Low Flow	20.0	0.6210	1.1	6.81	121.9
MW-126A	4/15/2015	11:45	Low Flow	20.4	0.2970	1.3	6.72	-134.6
MW-126A	10/19/2015	11:45	Low Flow	21.2	0.2950	1.0	6.73	-218.8
MW-126B	4/15/2015	12:30	Low Flow	20.9	0.3340	1.4	6.68	133.8
MW-126B	10/19/2015	12:20	Low Flow	20.7	0.4100	1.2	6.63	-75.3
MW-127	4/15/2015	13:15	Low Flow	22.7	0.2370	1.4	6.64	-269.7
MW-127	10/19/2015	10:55	Low Flow	21.6	0.2620	1.4	6.64	-259.4
MW-128	4/16/2015	11:45	Low Flow	23.7	0.2220	1.4	6.71	-88.1
MW-128	10/20/2015	15:25	Low Flow	21.5	0.2379	0.9	6.56	-1.8
MW-129	4/15/2015	14:05	Low Flow	23.6	0.1958	1.7	6.76	-85.2
MW-129	10/19/2015	9:25	Low Flow	21.2	0.2270	1.4	6.62	-99.1
MW-130	4/17/2015	13:05	Low Flow	23.8	0.2930	1.7	7.77	-84.0
MW-130	10/20/2015	13:25	Low Flow	24.4	0.2860	1.6	6.79	57.2
MW-131	4/15/2015	14:55	Low Flow	21.8	0.1933	1.6	6.68	-157.1
MW-131	10/29/2015	10:10	Low Flow	20.5	0.2100	1.5	6.52	-142.6
MW-133	4/17/2015	10:45	Low Flow	18.5	0.1733	2.1	6.72	-221.6
MW-134	4/17/2015	13:35	Low Flow	19.3	0.5630	1.5	6.83	24.5
MW-134	10/19/2015	17:50	Low Flow	19.2	0.5762	1.2	6.44	109.5
MW-135	4/15/2015	12:30	Bladder	20.2	0.7733	2.7	6.40	143.7
MW-135	10/19/2015	15:50	Bladder	21.6	0.6389	2.3	6.57	137.3
NCL-31	4/16/2015	10:05	Low Flow	19.7	0.2920	1.7	6.85	-252.8
NCL-31	10/20/2015	8:15	Low Flow	19.8	0.3490	1.2	7.16	-147.8
MW-136	10/20/2015	8:30	Low Flow	19.6	0.4260	1.9	6.73	72.8
MW-137	10/19/2015	9:20	Low Flow	24.4	0.5640	2.1	6.63	-408.1
MW-138	10/19/2015	10:20	Low Flow	29.5	0.3130	2.4	6.68	-349.4
NCL-31	10/20/2015	8:15	Low Flow	19.8	0.3490	1.2	7.16	-147.8

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NCL-32	4/15/2015	17:40	Low Flow	20.7	0.2730	2.3	6.87	-182.0
NCL-32	10/20/2015	10:30	Low Flow	20.6	0.3090	1.7	7.25	-252.1
NCL-33	4/15/2015	15:40	Low Flow	21.4	0.2890	1.8	6.73	-27.3
NCL-33	10/20/2015	12:20	Low Flow	23.2	0.3020	2.5	6.68	-109.3
NCL-34A	4/15/2015	14:35	Low Flow	22.1	0.2180	1.9	6.67	-362.3
NCL-34A	10/29/2015	13:10	Low Flow	23.6	0.1880	1.7	6.81	-330.4
NCL-44	4/15/2015	16:30	Low Flow	20.4	0.2250	2.2	6.71	-141.0
NCL-44	10/20/2015	13:10	Low Flow	21.4	0.2320	1.6	6.86	-209.6
NCL-49	4/16/2015	16:15	Low Flow	20.7	0.3020	2.9	6.99	53.7
NCL-49	10/19/2015	8:25	Low Flow	19.6	0.2960	2.2	7.39	55.7
NP-1	4/15/2015	11:25	Low Flow	18.0	0.5696	1.6	6.42	240.3
NP-1	10/19/2015	14:20	Low Flow	18.8	0.5236	1.3	6.53	95.2
NP-5	4/16/2015	15:55	Low Flow	19.0	0.5370	1.6	7.05	110.2
NP-6	4/15/2015	10:25	Low Flow	17.1	0.7204	1.3	6.51	88.1
OCD-1R	4/15/2015	8:55	Low Flow	16.8	1.7830	1.1	6.89	67.9
OCD-1R	10/19/2015	8:30	Low Flow	20.7	1.1860	0.7	7.07	-29.3
OCD-2A	4/15/2015	9:45	Low Flow	17.6	1.0140	1.4	7.10	86.2
OCD-2A	10/19/2015	12:35	Low Flow	20.7	0.8760	0.9	7.33	-59.4
OCD-3	4/15/2015	10:35	Low Flow	18.6	0.7080	1.6	7.03	26.2
OCD-3	10/19/2015	11:45	Low Flow	21.3	0.7020	0.7	7.33	25.1
OCD-4	4/15/2015	11:30	Low Flow	19.2	2.0100	1.4	6.92	-64.1
OCD-4	10/19/2015	11:00	Low Flow	21.3	1.3030	0.5	7.30	-133.7
OCD-5	4/15/2015	14:05	Low Flow	18.9	1.4310	1.8	7.27	-125.3
OCD-5	10/19/2015	9:25	Low Flow	20.1	1.4620	0.8	7.31	-127.2
OCD-6	4/16/2015	11:10	Low Flow	19.6	1.2840	0.9	7.05	-7.2
OCD-6	10/19/2015	9:20	Low Flow	20.2	1.5440	0.7	7.06	-96.3
OCD-7AR	4/15/2015	17:25	Low Flow	21.4	1.2070	1.0	7.02	58.6
OCD-7AR	10/19/2015	8:35	Low Flow	21.6	1.2120	0.7	6.99	-108.7
OCD-7B	4/16/2015	9:55	Low Flow	21.7	0.5110	0.5	7.23	-133.3
OCD-8A	4/16/2015	15:25	Low Flow	18.7	1.6650	1.8	6.99	-114.9
OCD-8A	10/19/2015	17:20	Low Flow	22.0	1.4530	1.4	6.92	-122.1
OCD-8B	4/16/2015	16:15	Low Flow	20.1	0.8320	0.7	7.00	-72.2
RA-313	4/17/2015	14:25	Grab	21.9	0.1228	2.0	7.19	-94.7
RA-4196	4/17/2015	10:30	Grab	22.5	0.2814	2.6	6.75	-29.8
RA-4196	10/20/2015	13:35	Grab	21.9	0.2726	2.1	7.03	-85.3
RA-4798	4/17/2015	11:45	Grab	19.1	0.3370	2.1	7.11	31.6
RA-4798	10/20/2015	13:50	Grab	19.3	0.2703	1.6	7.49	-57.6
RW-1R	4/17/2015	12:30	Low Flow	18.9	0.3478	0.6	6.46	-233.4
RW-2R	4/15/2015	11:20	Low Flow	20.8	0.5980	0.8	6.76	-364.9
RW-4R	4/15/2015	15:30	Low Flow	25.6	0.2220	1.2	7.00	-315.3
RW-5R	4/15/2015	12:55	Cycling	32.1	0.1007	1.2	9.13	-334.3
RW-6R	4/15/2015	14:35	Low Flow	25.2	0.2440	1.8	6.66	-256.1
RW-7R	4/17/2015	10:10	Low Flow	20.9	0.2911	0.4	6.70	-265.4
RW-8R	4/17/2015	13:20	Low Flow	19.9	0.2804	0.4	6.72	-241.3
RW-9	4/16/2015	18:40	Low Flow	19.8	0.3930	1.0	6.81	-347.4

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Well	Date	Time	Purge Method	Temperature (°C)	Specific Conductivity (S/m)	DO (mg/L)	pH (std units)	ORP (mV)
RW-10	4/16/2015	15:10	Low Flow	21.5	0.3590	0.3	7.28	-19.8
RW-16B	4/17/2015	10:15	Low Flow	17.8	0.6130	1.7	6.71	14.9
RW-17A	4/16/2015	12:20	Low Flow	19.3	0.6990	1.7	7.33	-1.5
RW-18A	4/16/2015	9:30	Low Flow	18.0	0.0057	2.1	6.94	104.6
RW-20	4/16/2015	16:30	Cycling	21.2	0.2425	5.3	7.29	-157.5
RW-22	4/16/2015	18:22	Low Flow	22.2	0.2986	0.4	6.33	-204.1
TEL-1	4/16/2015	12:55	Low Flow	22.3	0.3570	0.8	6.82	-265.4
TEL-1	10/20/2015	9:20	Low Flow	21.8	0.3580	0.6	6.87	-306.1
TEL-2	4/16/2015	11:30	Low Flow	22.0	0.3550	1.0	6.65	-364.1
TEL-2	10/20/2015	10:05	Low Flow	21.7	0.3210	0.7	6.65	-344.2
TEL-3	4/16/2015	9:50	Low Flow	19.9	0.3390	1.1	6.49	-326.2
TEL-3	10/20/2015	10:50	Low Flow	21.0	0.2650	0.4	6.48	-348.6
TEL-4	4/16/2015	8:25	Low Flow	19.9	0.4050	1.3	6.46	-303.2
TEL-4	10/20/2015	7:45	Low Flow	21.7	0.5740	0.7	6.67	-331.8
UG-1	4/17/2015	9:20	Low Flow	22.1	0.2900	4.0	7.10	118.8
UG-2	4/17/2015	10:40	Low Flow	23.6	0.2200	1.1	7.10	83.6
UG-3R	4/17/2015	9:15	Bladder	19.2	0.2550	4.4	6.97	79.1

Definitions:

°C = degrees Celsius

DO = dissolved oxygen

mg/L = milligrams per liter

mV = millivolts

ORP = oxidation/reduction potential

S/m = Siemens per meter

std units = standard pH units

Purge Methods:

Low Flow = peristaltic pump with dedicated tubing, purged until parameters stabilized

Bladder = bladder pump with dedicated tubing, purged until parameters stabilized

Cycling = bladder pump with non-dedicated tubing, purged until parameters stabilized

Grab = irrigation well sample collected from tap or valve

Table 3 - Groundwater Screening Levels and Selected Critical Groundwater Screening Level
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte	NMED GW Human Health (20.6.2.3103.A)	NMED GW Domestic (20.6.2.3103.B)	NMED GW Irrigation (20.6.2.3103.C)	USEPA MCL	NMED Tap Water (Table A-1)	USEPA Tap Water	NMED TPH (Table 6-2)	CGWSL	CGWSL Source
TPH (mg/L)									
TPH - gasoline range organics									
TPH - diesel range organics							2.00E-01	2.00E-01	NMED TPH (2012)
TPH - diesel range organics (Evaporation Ponds)							4.00E-01	4.00E-01	NMED TPH (2012)
VOCs (mg/L)									
1,1,1-Trichloroethane	6.00E-02			2.00E-01				6.00E-02	NMED GW Human Health (20.6.2.3103.A)
1,1,2,2-Tetrachloroethane	1.00E-02							1.00E-02	NMED GW Human Health (20.6.2.3103.A)
1,1,2,2-Tetrachloroethene	2.00E-02							2.00E-02	NMED GW Human Health (20.6.2.3103.A)
1,1,2-Trichloroethane	1.00E-02			5.00E-03				5.00E-03	USEPA MCL
1,1,2-Trichloroethene	1.00E-01							1.00E-01	NMED GW Human Health (20.6.2.3103.A)
1,1-Dichloroethane	2.50E-02							2.50E-02	NMED GW Human Health (20.6.2.3103.A)
1,1-Dichloroethene				7.00E-03				7.00E-03	USEPA MCL
1,2-Dibromo-3-chloropropane				2.00E-04				2.00E-04	USEPA MCL
1,2-Dibromoethane	1.00E-04			5.00E-05				5.00E-05	USEPA MCL
1,2-Dichloroethane	1.00E-02			5.00E-03				5.00E-03	USEPA MCL
1,2-Dichloropropane				5.00E-03				5.00E-03	USEPA MCL
1,2,4-Trimethylbenzene						1.50E-02		1.50E-02	USEPA Tap Water
1,3,5-Trimethylbenzene						1.20E-01		1.20E-01	USEPA Tap Water
2-Butanone					5.56E+00			5.56E+00	NMED Tap Water(Table A-1)
4-Methyl-2-Pentanone					1.24E+00			1.24E+00	NMED Tap Water(Table A-1)
Acetone					1.41E+01			1.41E+01	NMED Tap Water(Table A-1)
Benzene	1.00E-02			5.00E-03				5.00E-03	USEPA MCL
Bromodichloromethane				8.00E-02				8.00E-02	USEPA MCL
Bromomethane					7.54E-03			7.54E-03	NMED Tap Water(Table A-1)
Carbon Disulfide					8.10E-01			8.10E-01	NMED Tap Water(Table A-1)
Carbon tetrachloride	1.00E-02			5.00E-03				5.00E-03	USEPA MCL
Chlorobenzene				1.00E-01				1.00E-01	USEPA MCL
Chlorodibromomethane (dibromochloromethane)				8.00E-02				8.00E-02	USEPA MCL
Chloroethane (ethyl chloride)					2.09E+01			2.09E+01	NMED Tap Water(Table A-1)
Chloroform	1.00E-01			8.00E-02				8.00E-02	USEPA MCL
Chloromethane					2.03E-02			2.03E-02	NMED Tap Water(Table A-1)
cis-1,2-Dichloroethene				7.00E-02				7.00E-02	USEPA MCL
cis-1,3-Dichloropropene					4.70E-03			4.70E-03	NMED Tap Water(Table A-1)
Dibromochloromethane				8.00E-02				8.00E-02	USEPA MCL
Dichlorodifluoromethane					1.97E-01			1.97E-01	NMED Tap Water(Table A-1)
Ethylbenzene	7.50E-01			7.00E-01				7.00E-01	USEPA MCL
Isopropylbenzene (cumene)					4.47E-01			4.47E-01	NMED Tap Water(Table A-1)
m-Xylene					1.93E-01			1.93E-01	NMED Tap Water(Table A-1)
Methyl acetate					1.99E+01			1.99E+01	NMED Tap Water(Table A-1)
Methylene chloride (dichloromethane)	1.00E-01			5.00E-03				5.00E-03	USEPA MCL
Naphthalene	3.00E-02							3.00E-02	NMED GW Human Health (20.6.2.3103.A)
Methyl tert-butyl ether					1.43E-01			1.43E-01	NMED Tap Water(Table A-1)
o-Xylene					1.93E-01			1.93E-01	NMED Tap Water(Table A-1)
Styrene				1.00E-01				1.00E-01	USEPA MCL
Tetrachloroethene				5.00E-03				5.00E-03	USEPA MCL
Toluene	7.50E-01			1.00E+00				7.50E-01	NMED GW Human Health (20.6.2.3103.A)
trans-1,2-Dichloroethene				1.00E-01				1.00E-01	USEPA MCL
trans-1,3-Dichloropropene					4.70E-03			4.70E-03	NMED Tap Water(Table A-1)
Trichloroethylene				5.00E-03				5.00E-03	USEPA MCL

Table 3 - Groundwater Screening Levels and Selected Critical Groundwater Screening Level
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Navajo Refinery, Artesia, New Mexico

Analyte	NMED GW Human Health (20.6.2.3103.A)	NMED GW Domestic (20.6.2.3103.B)	NMED GW Irrigation (20.6.2.3103.C)	USEPA MCL	NMED Tap Water (Table A-1)	USEPA Tap Water	NMED TPH (Table 6-2)	CGWSL	CGWSL Source
VOCs continued (mg/L)									
Trichloroethene				5.00E-03				5.00E-03	USEPA MCL
Trichlorofluoromethane					1.14E+00			1.14E+00	NMED Tap Water(Table A-1)
Vinyl chloride	1.00E-03			2.00E-03				1.00E-03	NMED GW Human Health (20.6.2.3103.A)
Xylenes	6.20E-01			1.00E+01				6.20E-01	NMED GW Human Health (20.6.2.3103.A)
Metals (mg/L)									
Arsenic	1.00E-01			1.00E-02				1.00E-02	USEPA MCL
Barium	1.00E+00			2.00E+00				1.00E+00	NMED GW Human Health (20.6.2.3103.A)
Chromium	5.00E-02			1.00E-01				5.00E-02	NMED GW Human Health (20.6.2.3103.A)
Iron		1.00E+00						1.00E+00	NMED GW Domestic (20.6.2.3103.B)
Lead	5.00E-02			1.50E-02				1.50E-02	USEPA MCL
Manganese		2.00E-01						2.00E-01	NMED GW Domestic (20.6.2.3103.B)
Mercury	2.00E-03			2.00E-03				2.00E-03	NMED GW Human Health (20.6.2.3103.A)
Nickel			2.00E-01					2.00E-01	NMED GW Irrigation (20.6.2.3103.C)
Selenium	5.00E-02			5.00E-02				5.00E-02	NMED GW Human Health (20.6.2.3103.A)
Vanadium					6.31E-02			6.31E-02	NMED Tap Water(Table A-1)
Water Quality Parameters (mg/L, unless noted)									
Chloride		2.50E+02						2.50E+02	NMED GW Domestic (20.6.2.3103.B)
Cyanide	2.00E-01			2.00E-01				2.00E-01	NMED GW Human Health (20.6.2.3103.A)
Fluoride	1.60E+00							1.60E+00	NMED GW Human Health (20.6.2.3103.A)
Nitrate (NO ₃ as N)	1.00E+01			1.00E+01				1.00E+01	NMED GW Human Health (20.6.2.3103.A)
pH (Std pH units)		6 to 9						6 to 9	NMED GW Domestic (20.6.2.3103.B)
Sulfate		6.00E+02						6.00E+02	NMED GW Domestic (20.6.2.3103.B)
Total Dissolved Solids		1.00E+03						1.00E+03	NMED GW Domestic (20.6.2.3103.B)
Other Parameters (mg/L, unless noted)									
Uranium	3.00E-02			3.00E-02				3.00E-02	NMED GW Human Health (20.6.2.3103.A)
Combined Radium 226 and 228 (pCi/L)	3.00E+01			5.00E+00				5.00E+00	USEPA MCL
Polychlorinated Biphenyls	1.00E-03			5.00E-04				5.00E-04	USEPA MCL

Definitions and Notes:

Blank cell indicates no standard is available

µg/L = micrograms per liter

CGWSL Source = Source for CGWSL value

CGWSL = Critical Groundwater Screening Level

Heirarchy of selecting the CGWSL is as follows:

1. Lowest of either NMED GW Standard (20.6.2.3103) or USEPA MCL.
2. If no NMED GW Standard or USEPA MCL available, NMED Tap Water value.
3. If no NMED Tap Water value, USEPA Tap Water value, if available.
4. NMED TPH screening for "unknown oil" used for TPH-DRO.
5. NMED TPH screening value for "Diesel #2/New Crankase Oil" is used for TPH DRO for samples collected in Evaporation Ponds area.

mg/L = milligrams per liter

NMED = New Mexico Environment Department

NMED GW Domestic = NMED groundwater standard for domestic exposure taken from 20.6.2.3103.B

NMED GW Human Health = NMED groundwater standard for human health exposure taken from 20.6.2.3103.A

NMED GW Irrigation = NMED groundwater standard for irrigation exposure taken from 20.6.2.3103.C

NMED Tap Water = NMED Risk Assessment Guidance for Site Investigations and Remediation, July 2015, Table A-1, Tap Water Screening Level

NMED TPH = NMED Risk Assessment Guidance for Site Investigations and Remediation, February 2012, Table 6-2 TPH Screening Guidelines for Potable Groundwater

pCi/L = PicoCuries per liter

SVOC = semivolatile organic compound

TPH = total petroleum hydrocarbon

USEPA MCL = United States Environmental Protection Agency Maximum Contaminant Level from "Regional Screening Level (RSL) Summary Table", November 2015

USEPA Tap Water = United States Environmental Protection Agency Tap Water screening level from"Regional Screening Level (RSL) Summary Table", November 2015

VOC = volatile organic compound

Table 4 - Summary of Groundwater Analytical Data
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Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				TPH			Metals						
				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
Crossgradient	KWB-13	Apr-13			< 0.052		< 0.0100	0.0232	< 0.00500	0.932	< 0.00500	0.0208	0.0165
		Apr-14			< 0.020		0.00259 J	0.0145	0.00121 J	< 0.0500	< 0.000700	< 0.00250	0.0126
		Apr-15			0.0630 J		0.0118	0.122	0.0182	12.3	0.0190	0.399	0.0110
	MW-17	Apr-14			0.038 J		< 0.00200	0.0152	< 0.00200	< 0.100	0.00724 J	< 0.00500	0.0104
	NP-5	Apr-13			< 0.053		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	0.0135
		Apr-15			0.0387 J		0.00288	0.0159	0.00109 J	0.437	0.000415 J	0.00318 J	0.0125
	RA-3156	Apr-13											
		Nov-13											
		Apr-14											
	MW-136	Oct-15		< 0.0314	0.0721 J		0.00381	0.103	0.00365	1.18	0.00218	0.204	0.00463
EP	MW-1R	Apr-13				< 0.052	< 0.0250	< 0.0250	< 0.0250	1.77	< 0.0250	1.64	< 0.0250
		Apr-13	FD			< 0.052	< 0.0250	< 0.0250	< 0.0250	1.64	< 0.0250	1.59	< 0.0250
		Apr-14				< 0.020	0.00335 J	0.0214	< 0.00200	2.39	< 0.00140	1.38	< 0.00200
		Apr-15				0.124	0.00366 J	0.0240 J	< 0.00270	3.49	< 0.00120	2.14 J	< 0.00190
	MW-2A	Mar-13		< 0.0500	0.15	0.0505	0.0246	< 0.00500	6.75	< 0.00500	2.7	< 0.00500	
		Nov-13		< 0.0500	< 0.051	0.0205	0.0225	< 0.00500	0.437	< 0.00500	0.92	0.00569	
		Apr-14		0.13	< 0.020	0.0194 J	0.0222 J	< 0.00500	0.737 J	< 0.00350	1.21	< 0.00500	
		Nov-14		< 0.031	0.25	0.048	0.026	0.0078	3.1	< 0.0012	1.5	0.0051 J	
		Apr-15		< 0.0310	0.295	0.0155 J	0.0255 J	< 0.00540	0.571 J	< 0.00240	1.98	< 0.00380	
		Oct-15		0.0363 J	0.26	0.00962	0.0241	< 0.00108	0.588	< 0.000480	2.88	0.00153 J	
	MW-3	Mar-13		0.48	4.50	0.0324	0.0148	< 0.00500	0.706	< 0.00500	1.35	0.00733	
		Nov-13		0.23	2.30	0.0357	0.0209	< 0.00500	0.333	< 0.00500	0.556	0.0472	
		Apr-14		0.0493 J	1.00	0.0298	0.0185	< 0.00200	< 0.100	< 0.00140	0.254	0.0458	
		Nov-14		0.54	9.10	0.035	0.022 J	0.0081	0.57	< 0.0012	2.2	0.019	
		Nov-14	FD	0.52	9.20	0.029	0.022 J	0.006	0.34 J	< 0.0012	2.5	0.023	
		Apr-15		0.13	8.50	0.0288	0.0186 J	< 0.00270	< 0.0750	< 0.00120	1.55	0.108	
		Apr-15	FD	0.151 J	8.60	0.0346	0.0215	0.00198 J	0.0806 J	0.000346 J	1.85	0.112	
		Oct-15		3.59	11.20	0.0248	0.0157	< 0.000540	0.366	0.000298 J	1.29	0.00892	
		Oct-15	FD	0.839	10.20	0.0281	0.0158	0.00107 J	0.559	0.000371 J	1.33	0.00804	
	MW-4A	Apr-13		0.51	3.20	0.0636	< 0.0250	< 0.0250	1.57	< 0.0250	1.88	< 0.0250	
		Nov-13		0.35	1.80	0.0724	0.0161	< 0.0100	0.672	< 0.0100	2.36	< 0.0100	
		Apr-14		0.342 H	3.40	0.147	0.0121	< 0.00200	2.31	< 0.00140	2.24	< 0.00200	
		Nov-14		0.35	3.80	0.057	0.014 J	< 0.0027	0.82	< 0.0012	2.7	< 0.0019	
		Apr-15		0.13	5.60	0.108 J	0.0139 J	0.00570 J	3.15	< 0.00120	2.96	< 0.00190	
		Oct-15		3.44	9.81	0.112	0.014	0.00126 J	2.09	< 0.000240	1.75	0.000588 J	
	MW-4B	Apr-13		0.10	0.36	0.0371	< 0.0250	< 0.0250	< 1.00	< 0.0250	1.3	< 0.0250	
		Apr-15		0.119	1.31	0.101	0.0349	< 0.00110	3.6	0.00189 J	8.68	< 0.000760	
	MW-5A	Apr-13		5.30	5.80	0.201	< 0.0250	< 0.0250	11	< 0.0250	1.1	< 0.0250	
		Nov-13		3.59	5.30	0.097	< 0.0250	< 0.0250	5.79	< 0.0250	1.78	< 0.0250	
		Apr-14		4.48 H	6.10	0.106	0.0142 J	< 0.00500	7.1	< 0.00350	1.74	< 0.00500	
		Nov-14		0.90	2.00	0.064	0.014 J	< 0.0027	4.4	< 0.0012	2	0.0040 J	
		Apr-15		1.19	4.30	0.0938	0.0128 J	< 0.00540	5.62	< 0.00240	1.84	< 0.00380	
		Oct-15		1.72	2.31	0.0705	0.0143	0.000685 J	5.34	< 0.000240	1.82	0.000954 J	
	MW-5B	Apr-13		1.78	7.10	0.122	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.44	< 0.0250	
		Apr-15		1.14	11.00	0.201	0.0112 J	0.00277 J	6.11	< 0.00120	3.87	0.00197 J	

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

				TPH			Metals						
Analyte Group:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Analyte:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Units:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
CGWSL Source:													
Area	Location	Date	Dup										
EP	MW-5C	Apr-13		0.07		0.22	0.0139	0.0166	< 0.0100	1.04	< 0.0100	0.943	< 0.0100
		Apr-15		< 0.0310		0.58	0.0145	0.0200 J	< 0.00270	1.15	< 0.00120	0.975	< 0.00190
	MW-6A	Mar-13		0.19		3.00	0.00788	0.0143	< 0.00500	0.66	< 0.00500	0.277	< 0.00500
		Apr-14		0.24		1.50	0.0113	0.0287	0.00234 J	< 0.100	< 0.00140	1.37	0.0192
		Apr-15		< 0.0310		4.5	0.0129	0.0308	< 0.00270	0.155 J	< 0.00120	1.4	0.0308
	MW-6B	Mar-13		< 0.0500		< 0.053	0.0493	0.0139	< 0.00500	1.54	< 0.00500	2.39	< 0.00500
		Mar-13	FD	< 0.0500		< 0.054	0.0537	0.0163	< 0.00500	1.69	< 0.00500	2.43	< 0.00500
		Apr-15		< 0.0310		0.386	0.0333	0.0164	< 0.00110	1.37	< 0.000480	3.45	< 0.000760
	MW-7A	Apr-13		0.47		1.10	0.0272	< 0.0250	< 0.0250	6.05	< 0.0250	0.422	< 0.0250
		Nov-13		0.58		0.30	0.0242	0.0181	< 0.0100	1.53	< 0.0100	0.465	< 0.0100
		Apr-14		0.463 H		0.93	0.0256	0.0152	< 0.00200	2.99	< 0.00140	0.509	< 0.00200
		Nov-14		0.36		1.10	0.021	0.018 J	0.0027 J	1.3	< 0.0012	1.5	< 0.0019
		Nov-14	FD	0.37		1.10	0.02	0.017 J	< 0.0027	1.5	< 0.0012	1.6	< 0.0019
		Apr-15		0.201		1.20	0.019	0.0149	0.000895 J	0.984	< 0.000240	1.11	0.000620 J
		Apr-15	FD	0.19 J		1.20	0.0194	0.0156	0.00131 J	0.996	0.000288 J	1.06	0.000570 J
		Oct-15		0.347		1.06	0.0255	0.0155	0.00116 J	2.86	0.000494 J	0.632	0.000638 J
		Oct-15	FD	0.417		1.13	0.0253	0.0159	0.00114 J	2.86	0.000524 J	0.629	0.000647 J
	MW-7B	Apr-13		< 0.0500		< 0.053	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.397	< 0.0250
		Apr-15		< 0.0310		0.12	0.00588	0.0111	0.000702 J	0.188	< 0.000240	0.58	< 0.000380
	MW-10	Apr-13		1.21		1.90	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.33	< 0.0250
		Nov-13		1.07		0.97	0.0219	0.0176	< 0.00500	< 0.200	< 0.00500	2.3	< 0.00500
		Apr-14		1.08		2.00	0.0211	0.0134	< 0.00200	< 0.100	< 0.00140	2.7	< 0.00200
		Nov-14		0.91		2.20	0.019	0.021	0.00092 JB	0.14	0.00098 J	2.4	0.0015 J
		Apr-15		0.41 J		2.60	0.02	0.0128 J	< 0.00270	< 0.0750	< 0.00120	2.43	< 0.00190
		Oct-15		0.73		1.79	0.0173	0.0124	< 0.000540	0.0570 J	< 0.000240	2.55	< 0.000380
	MW-11A	Mar-13		< 0.0500		< 0.052	< 0.0250	0.0294	< 0.0250	14.7	< 0.0250	1.67	< 0.0250
		Apr-14		< 0.0100		< 0.021	< 0.0100	0.0321	< 0.0100	2.5	< 0.00700	1.56	< 0.0100
		Nov-14											
		Apr-15		< 0.0310		0.0558 J	< 0.00500	0.0410 J	< 0.0110	< 0.3	< 0.00480	0.912	< 0.00760
		Oct-15											
	MW-11B	Mar-13		< 0.0500		< 0.052	< 0.0250	< 0.0250	< 0.0250	3.25	< 0.0250	0.316	< 0.0250
		Apr-15		< 0.0310		< 0.0250	0.00453 J	0.0189 J	< 0.00540	4.38	< 0.00240	0.427	< 0.00380
	MW-12	Apr-14				< 0.020	< 0.00500	0.0194	< 0.00500	0.441 J	< 0.00140	0.2	0.0172 J
	MW-13	Apr-14				< 0.020	0.00205 J	0.031	< 0.00200	< 0.100	< 0.00140	0.192	< 0.00200
	MW-15	Mar-13		< 0.0500		0.20	0.0337	0.0218	< 0.0100	< 0.400	< 0.0100	1.77	< 0.0100
		Apr-14		0.15		0.57	0.0605	0.0217	0.00381 J	< 0.100	< 0.00140	0.363	0.00535 J
		Apr-15		< 0.16		1.01	0.0279	0.0236 J	< 0.00270	< 0.0750	< 0.00120	0.861	0.0195
	MW-18A	Apr-13				0.21	< 0.0250	< 0.0250	< 0.0250	10.7	< 0.0250	3.02	< 0.0250
		Nov-13	FD			< 0.052	0.00545	0.0168	< 0.00500	0.377	< 0.00500	0.597	0.0725
		Nov-13				< 0.051	0.00537	0.0173	< 0.00500	0.361	< 0.00500	0.58	0.0758
		Apr-14				< 0.020	< 0.0100	0.0135	< 0.0100	< 0.500	< 0.00700	0.189	< 0.0100
		Nov-14				0.074 J	0.0034	0.016	0.00080 JB	1.1	0.00030 J	0.076	0.0069
		Apr-15				0.0770 J	0.0041	0.0129	0.000794 J	0.379	< 0.00480	0.0221	0.0503
		Oct-15				0.22	0.00485	0.0173	0.00184 J	0.572	0.000262 J	0.363	0.00108 J
	MW-18B	Apr-13		0.10		< 0.052	< 0.0100	0.0126	< 0.0100	< 0.400	< 0.0100	0.572	< 0.0100
		Apr-15		< 0.0310		0.28	0.012	0.0125	0.000942 J	0.139	0.000814 J	0.789	< 0.000380

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
EP	MW-22A	Apr-13		5.50		6.10	0.0471	< 0.0250	< 0.0250	3.81	< 0.0250	5.72	< 0.0250
		Nov-13		4.44		4.00	0.061	0.0216	< 0.00500	3.13	< 0.0100	4.39	< 0.00500
		Apr-14		3.46		5.80	0.0568	0.0153	< 0.00200	2.19	< 0.00140	3.61	< 0.00200
		Nov-14		3.30		5.60	0.06	0.019	0.00081 JB	6.9	< 0.00024	6	0.0016 J
		Nov-14	FD	4.30		5.30	0.064	0.018 J	0.0030 J	8.1	< 0.0012	6.3	< 0.0019
		Apr-15		2.57		5.80	0.0545	0.0179 J	< 0.00270	2.34	< 0.00120	5.18	< 0.00190
		Apr-15	FD	3.8		6.39	0.0362	0.0147 J	< 0.00270	2.89	< 0.00120	4.36	< 0.00190
		Oct-15		3.63		4.56	0.0482	0.0166	< 0.000540	4.62	< 0.000240	5.86	0.000966 J
		Oct-15	FD	3.31		4.46	0.0479	0.0165	< 0.000540	4.54	< 0.000240	5.81	0.000979 J
	MW-22B	Apr-13		1.99		3.00	0.0343	< 0.0250	< 0.0250	1.78	< 0.0250	3.37	< 0.0250
		Apr-15		2.34		5.60	0.0389	0.0160 J	< 0.00270	2.32	0.00134 J	4.32	< 0.00190
	MW-70	Apr-13		1.61		0.71	< 0.0250	< 0.0250	< 0.0250	2.49	< 0.0250	0.461	< 0.0250
		Nov-13		1.43		0.22	0.0218	0.021	< 0.00500	2.02	< 0.00500	0.552	< 0.00500
		Apr-14		1.42		0.53	0.0286	0.0157	< 0.00200	3.36	< 0.00140	0.262	< 0.00200
		Nov-14		1.20		0.72	0.021	0.02	0.00055 J	2.5	< 0.00024	0.73	0.00044 J
		Apr-15		1.27 J		0.79	0.0252	0.0151	0.000653 J	3.29	< 0.000240	0.222	< 0.000380
		Oct-15		1.37		0.60	0.0163	0.0166	< 0.000540	2.99	< 0.000240	0.227	< 0.000380
	MW-72	Mar-13		0.14		0.18	0.0625	< 0.0250	< 0.0250	23.4	< 0.0250	5.67	< 0.0250
		Nov-13		0.09		< 0.051	0.0929	0.0186	< 0.0100	20.9	< 0.00500	5.26	< 0.0100
		Apr-14		0.09		0.76	0.048	0.0154	< 0.00100	7.13	< 0.000700	5.69	< 0.00100
		Apr-15		< 0.0310		1.30	0.149	0.0321	< 0.00270	32.3	< 0.00120	3.05	0.0155
	MW-73	Mar-13		1.12		1.30	0.109	< 0.0250	< 0.0250	8.38	< 0.0250	2.97	< 0.0250
		Oct-13		1.22		3.10	0.108	0.012	< 0.00500	9.29	< 0.00500	3.09	< 0.00500
		Apr-14		0.99		4.80	0.0982	0.0132 J	< 0.00500	5.71	< 0.00350	2.77	< 0.00500
		Apr-15		0.378		4.00	0.0757	0.00999 J	< 0.00270	2.4	< 0.00120	2.61	0.00233 J
	MW-74	Mar-13		1.52		7.20	0.118	< 0.0250	< 0.0250	1.64	< 0.0250	2.78	< 0.0250
		Oct-13		0.46		32.00	0.0625	0.015	< 0.00500	0.948	< 0.00500	0.915	0.285
		Apr-14		1.09		28.00	0.0599	0.0137 J	< 0.00500	< 0.250	< 0.00350	1.18	0.193
		Nov-14		0.68		30.00	0.062	0.014	0.00074 JB	0.11	< 0.00024	0.88	0.25
		Apr-15		0.0910 J		38.00	0.0549	0.00894 J	< 0.00270	0.175 J	< 0.00120	0.406	0.48
		Oct-15		3.23		18.90	0.0733	0.0127	< 0.00108	< 0.0300	< 0.000480	1.17	0.0608
	MW-75	Mar-13		2.05		5.50	0.219	< 0.0250	< 0.0250	1.97	< 0.0100	0.852	< 0.0250
		Oct-13		2.05		4.90	0.368	0.0161	< 0.00500	3.59	< 0.00500	0.95	< 0.00500
		Apr-14		1.66		9.00	0.299	0.0166	0.00221 J	4.01	< 0.00140	1.1	0.00288 J
		Nov-14		2.50		13.00	0.35	0.016	0.0019	4.2	0.00029 J	0.96	0.0025
		Apr-15		2.31		22.00	0.4	0.0183 J	0.00396 J	10.7	< 0.00120	0.901	0.00311 J
		Oct-15		10.9		19.60	0.328	0.0149	0.00155 J	3.75	< 0.000240	0.821	0.00248
	MW-76	Mar-13		1.23		3.40	0.0607	< 0.0250	< 0.0250	2.88	< 0.0100	0.666	< 0.0250
		Oct-13		0.87		6.20	0.118	0.0185	< 0.00500	5.81	< 0.00500	1.72	< 0.00500
		Apr-14		0.86		4.60	0.0712	0.0151	0.00181 J	4	< 0.000700	1.06	0.00301 J
		Nov-14		1.10		23.00	0.1	0.018	0.0027	5.1	0.00046 J	1.8	0.0049
		Apr-15		0.356 J		21.00	0.0777	0.0127 J	< 0.00270	4.04	< 0.00120	1.1	0.00258 J
		Oct-15		0.773		25.20	0.0582	0.0143	0.00126 J	3.75	0.000242 J	0.753	0.0025

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
EP	MW-77	Mar-13		1.38		11.00	0.0611	< 0.0250	< 0.0250	3.88	< 0.0100	0.82	< 0.0250
		Oct-13		1.17		17.00	0.0693	0.013	0.00636	6.01	< 0.00500	1.08	0.00923
		Oct-13	FD	1.21		17.00	0.0719	0.0133	0.00591	6	< 0.00500	0.908	0.0103
		Apr-14		1.13		39.00	0.0765	0.0138	0.00884 J	9.8	< 0.000700	1.06	0.0113
		Nov-14		1.30		91.00	0.054	0.013 J	0.0097	9.8	0.0013 J	0.77	0.021
		Apr-15		0.893		140.00	0.0928	0.0158 J	0.0144	14.9	< 0.00120	0.666	0.0135
		Oct-15		2.68		173.00	0.05	0.0132 J	0.00980 J	8.54	< 0.00120	0.703	0.0119
	MW-78	Mar-13		0.37		6.40	< 0.0250	0.0284	0.0843	< 1.00	< 0.00500	0.491	< 0.0250
		Apr-14		0.333 J		29.00	0.0217	0.0388	0.0476	7.58	0.00107 J	1.46	0.0105
		Apr-15		0.279		67.00	0.0211	0.0318	0.133	12.3	< 0.00120	1.29	0.0156
	MW-79	Mar-13		0.06		0.23	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	4.18	< 0.0250
		Oct-13		0.06		0.18	0.0114	0.0213	< 0.0100	< 0.400	< 0.0100	3.42	< 0.0100
		Apr-14		0.08		1.30	0.0188	0.0138	< 0.00200	0.108 J	< 0.00140	1.34	0.00675 J
		Nov-14		0.055 J		0.59	0.0073	0.02	0.00065 JB	0.23	< 0.00024	4	0.0017 J
		Apr-15		< 0.0310		0.56	0.00807 J	0.0154 J	< 0.00270	0.276 J	< 0.00120	1.46	< 0.00190
		Oct-15		0.0383 J		0.58	0.0126	0.0165	< 0.00108	3.03	< 0.000480	3.76	0.00144 J
	MW-80	Mar-13		< 0.0500		0.05	< 0.0250	< 0.0250	< 0.0250	1.31	< 0.0100	0.583	< 0.0250
		Apr-14		0.0489 J		0.20	0.0143	0.016	< 0.00200	2.1	< 0.00140	0.703	< 0.00200
		Apr-15		< 0.0310		0.75	0.0187	0.0151 J	< 0.00270	1.73	< 0.00120	0.555	< 0.00190
	MW-81	Mar-13		< 0.0500		0.14	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	2.14	< 0.0250
		Mar-13	FD	< 0.0500		0.15	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	2.08	< 0.0250
		Apr-14		0.0318 J		3.60	0.0188	0.0162	< 0.00200	< 0.100	< 0.00140	0.137	0.00757 J
		Apr-15		< 0.0310		8.00	0.022	0.0131 J	< 0.00270	0.183 J	< 0.00120	0.132	0.0235
	MW-82	Mar-13		1.30		2.70	0.105	< 0.0250	< 0.0250	1.8	< 0.0250	1.55	< 0.0250
		Apr-14		0.61		4.20	0.133	0.021	< 0.00200	3.06	0.000773 J	1.33	< 0.00200
		Apr-14	FD	0.65		4.20	0.126	0.021	< 0.00200	2.73	< 0.00140	1.36	< 0.00200
		Apr-15		0.361		14.00	0.0929	0.0302	0.00570 J	1.68	< 0.00120	1.38	0.00302 J
	MW-83	Mar-13		1.32		5.40	0.0441	< 0.0250	< 0.0250	1.53	< 0.0100	0.495	< 0.0250
		Oct-13		0.70		25.00	0.0407	0.0311	< 0.00500	17	< 0.0100	1.79	0.0097
		Apr-14		0.489 J		20.00	0.0388	0.0197	0.00430 J	4.65	0.000914 J	0.986	0.00977
		Nov-14		0.43		22.00	0.03	0.046	0.0089	12	0.00037 J	0.7	0.0075
		Apr-15		0.278		31.00	0.0304	0.0116 J	0.0115	8.98	< 0.00120	0.863	0.00376 J
		Oct-15		6.26		40.30	0.0215	0.0403	0.00791	1.87	0.000860 J	0.17	0.00806
	MW-84	Mar-13		0.91		8.80	0.095	< 0.0250	< 0.0250	1.23	< 0.0250	2.61	< 0.0250
		Oct-13		0.78		26.00	0.108	0.0211	0.0117	5.97	< 0.0100	3.9	0.0139
		Apr-14		0.61		27.00	0.114	0.0144	0.00416 J	3.21	< 0.000700	3.58	0.00577 J
		Nov-14		0.61		75.00	0.083	0.029	0.019 B	1.6	< 0.00024	3.6	0.014
		Apr-15		0.613		62.00	0.116	0.0135 J	0.00500 J	2.54	< 0.00120	2.83	0.00452 J
		Oct-15		1.96		82.10	0.0827	0.0249 J	0.022	0.397 J	< 0.00240	2.74	0.0308
	MW-87	Apr-13		< 0.0500		0.25	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.0396	< 0.0250
		Nov-13		0.06		< 0.051	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.95	< 0.0250
		Apr-14		< 0.0100		0.23	0.00862 J	0.0168	0.00290 J	0.789	< 0.00140	0.103	< 0.00200
		Nov-14		< 0.031		0.12	0.0024	0.027	0.00082 JB	0.2	< 0.00024	1.5	0.0014 J
		Apr-15		< 0.0310		0.39	0.00635	0.0184	0.000789 J	0.194	< 0.000240	0.102	0.00115 J
		Oct-15		0.0451 J		0.25	0.00702	0.0322	< 0.000540	11.8	< 0.000240	6.04	0.00131 J

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Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				TPH			Metals						
				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
EP	MW-88	Apr-13		0.06		0.37	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.767	< 0.0250
		Nov-13		0.07		0.10	0.0136	0.0163	< 0.00500	< 0.200	< 0.0100	2.53	< 0.00500
		Apr-14		0.0497 J		0.37	0.0106	0.0115	< 0.00200	< 0.100	< 0.00140	0.796	< 0.00200
		Nov-14		0.048 J		0.57	0.012	0.021	< 0.00054	1.4	< 0.00024	1.6	0.0015 J
		Apr-15		< 0.0310		0.61	0.0231	0.0132 J	< 0.00270	2.11	< 0.00120	1.42	< 0.00190
		Oct-15		< 0.0314		0.46	0.00917	0.0108	< 0.000540	0.0268 J	< 0.000240	0.772	< 0.000380
	MW-120	Oct-13		0.06		1.10	0.0214	0.0225	< 0.00500	2.9	< 0.00500	1.18	0.0371
		Apr-14		0.07		0.23	0.0307	0.0335	0.00217 J	8.09	0.00213 J	1.19	< 0.00200
		Nov-14		0.057 J		2.40	0.026	0.018	0.001	12	0.00064 J	1.5	0.038
		Apr-15		< 0.0310		3.09	0.00974 J	0.0108 J	< 0.00270	2.63	< 0.00120	1.33	0.0335
		Oct-15		0.181		1.30	0.0101	0.0149	< 0.000540	4.74	< 0.000240	1.79	0.00113 J
	MW-121	Oct-13		< 0.0500		0.25	0.0401	0.0172	< 0.00500	0.913	< 0.00500	4.49	0.0102
		Apr-14		< 0.0100		0.09	0.0465	0.016	< 0.00100	0.963	< 0.000700	4.22	0.00446 J
		Nov-14		< 0.031		0.51	0.071	0.019	0.0014	2	0.00070 J	3.8	0.012
		Apr-15		< 0.0310		0.565	0.0366	0.0142	< 0.00110	0.7	< 0.000480	3.85	0.00792
		Oct-15		< 0.0314		0.46	0.0413	0.0138	< 0.000540	0.287	< 0.000240	2.7	0.0109
	MW-122	Oct-13		< 0.0500		0.16	0.00871	0.0317	< 0.00500	4.63	< 0.00500	1.43	< 0.00500
		Apr-14		0.0289 J		< 0.021	0.00917 J	0.0406	< 0.00200	5.37	0.00144 J	2.09	< 0.00200
		Nov-14		< 0.031		5.50	0.018	0.034	0.0015	2.6	0.00036 J	1.1	0.04
		Apr-15		< 0.0310		4.79	0.0116 J	0.0273 J	< 0.00540	0.606 J	< 0.00240	1.92	0.00988 J
		Oct-15		0.0340 J		6.06	0.00629	0.0251	< 0.00108	1.59	< 0.000480	1.27	0.00120 J
	MW-123	Nov-13		1.92		1.60	0.0303	0.0563	< 0.00500	1.06	< 0.00500	2.92	< 0.00500
		Nov-13	FD	2.00		1.80	0.0258	0.0368	< 0.0100	0.676	< 0.00500	3.02	< 0.0100
		Nov-13		1.92		1.60	0.0303	0.0563	< 0.00500	1.06	< 0.00500	2.92	< 0.00500
		Apr-14		< 0.0100		2.80	0.0226	0.0175	< 0.00200	0.102 J	< 0.00140	2.66	< 0.00200
		Nov-14		1.60		2.70	0.023	0.027	0.00093 JB	0.3	0.00075 J	2.7	0.0013 J
		Apr-15		1.9		3.6	0.0258	0.0200 J	< 0.00270	< 0.0750	< 0.00120	2.59	< 0.00190
		Oct-15		1.24		2.13	0.025	0.0226	< 0.000540	0.0657 J	0.000254 J	2.72	< 0.000380
	MW-124	Nov-13		< 0.0500		< 0.051	< 0.0100	0.0527	< 0.0100	1.41	< 0.0100	0.592	< 0.0100
		Apr-14		< 0.0100		< 0.021	0.00952 J	0.0216	< 0.00200	2.48	< 0.00140	0.479	< 0.00200
		Nov-14		< 0.031		< 0.022	0.0052	0.027	0.00086 JB	2.7	0.00051 J	1.1	0.00093 J
		Apr-15		< 0.0310 J		0.0550 J	0.00276	0.0192	0.00126 J	1.22	0.000379 J	0.816	< 0.000380
		Oct-15		< 0.0314		0.0298 J	0.00443	0.0247	< 0.00108	2.93	< 0.000480	0.562	< 0.000760
	OCD-1R	Nov-13		< 0.0500		< 0.052	0.0116	0.02	< 0.00500	0.31	< 0.00500	0.505	0.0378
		Apr-14		< 0.0100		< 0.021	0.00833 J	0.0144 J	0.00407 J	0.65	< 0.00140	1.52	0.00892 J
		Nov-14		< 0.031		0.23	0.0071	0.02	0.00081 JB	0.34	< 0.00024	0.41	0.019
		Apr-15		< 0.0310		0.242	0.00662 J	0.0176 J	< 0.00540	0.238 J	< 0.00240	0.773	0.0217
		Oct-15		< 0.0314		0.266	0.00447	0.0184	< 0.00108	0.593	< 0.000480	1.59	0.00229 J
	OCD-2A	Mar-13		< 0.0500		< 0.052	< 0.0100	0.029	< 0.0100	6.45	< 0.0100	1.66	< 0.0100
		Nov-13		< 0.0500		< 0.052	< 0.00500	0.0199	< 0.00500	< 0.200	< 0.00500	0.539	0.0169
		Apr-14		< 0.0100		< 0.020	0.00332 J	0.0185	< 0.00200	0.425	< 0.00140	0.563	0.00245 J
		Nov-14		< 0.031		0.093 J	0.0021	0.023	0.00089 JB	0.71	< 0.00024	0.59	0.0075
		Apr-15		< 0.0310		0.104	0.00197 J	0.0193 J	< 0.00270	0.965	< 0.00120	0.313	< 0.00190
		Oct-15		< 0.0314		0.0455 J	0.00361 J	0.0234	0.00385 J	2.64	< 0.000480	1.34	< 0.000760

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
EP	OCD-3	Mar-13		< 0.0500		< 0.051	< 0.00500	0.0226	< 0.00500	1.37	< 0.00500	0.404	< 0.00500
		Nov-13		< 0.0500		< 0.052	< 0.00500	0.0217	< 0.00500	0.361	< 0.00500	0.0464	0.00574
		Apr-14		< 0.0100		< 0.021	0.00631 J	0.0198	< 0.00200	1.69	< 0.00140	0.134	0.00206 J
		Nov-14		< 0.031		0.07 J	0.0055 J	0.019 J	< 0.0027	2.2 V	< 0.0012	0.16 J	0.0040 J
		Apr-15		< 0.0310		0.0484 J	0.00421 J	0.0198 J	< 0.00270	1.69	< 0.00120	0.165	< 0.00190
		Oct-15		< 0.0314		0.0251 J	0.00184 J	0.0224	< 0.000540	0.352	< 0.000240	0.412	0.00113 J
	OCD-4	Mar-13		< 0.0500		< 0.052	< 0.0250	< 0.0250	< 0.0250	5.2	< 0.0250	0.294	< 0.0250
		Nov-13		< 0.0500		< 0.052	< 0.00500	0.0259	< 0.00500	3.46	< 0.00500	0.323	< 0.00500
		Apr-14		< 0.0100		< 0.021	< 0.00500	0.0213	< 0.00500	3.13	< 0.00140	0.276	< 0.00500
		Nov-14		< 0.031		0.065 J	0.0036 J	0.025	< 0.0027	3.8	< 0.0012	0.31	< 0.0019
		Apr-15		< 0.0310		0.0464 J	0.00351 J	0.0263 J	< 0.00540	4.06	< 0.00240	0.311	< 0.00380
		Oct-15		< 0.0314		< 0.0247	0.00701	0.0226	< 0.000540	6.61	< 0.000240	0.233	< 0.000380
	OCD-5	Mar-13		0.07		< 0.053	< 0.0250	< 0.0250	< 0.0250	5.18	< 0.0250	0.339	< 0.0250
		Nov-13		0.20		0.08	0.00598	0.0256	< 0.00500	2.43	< 0.00500	0.389	< 0.00500
		Apr-14		0.13		< 0.021	0.00738 J	0.0206	< 0.00200	2.47	< 0.00140	0.411	< 0.00200
		Apr-14	FD	0.14		< 0.021	0.00491 J	0.0211	< 0.00200	1.28	< 0.00140	0.364	< 0.00200
		Nov-14		0.26		0.54	0.0099 J	0.028	< 0.0027	4.8	< 0.0012	0.36	< 0.0019
		Apr-15		< 0.0310		0.218	0.00805 J	0.0284 J	< 0.00540	5.34	< 0.00240	0.328	< 0.00380
		Oct-15		0.0402 J		0.0951 J	0.0166	0.0272	0.00108 J	11.3	< 0.000480	0.306	< 0.000760
	OCD-6	Mar-13		0.44		1.90	0.0358	< 0.0250	< 0.0250	12.5	< 0.0250	2.1	< 0.0250
		Nov-13		0.25		0.45	0.0212	0.0205	< 0.00500	0.201	< 0.00500	1.05	< 0.00500
		Apr-14		0.30		0.82	0.0160 J	0.0191 J	< 0.00500	2.56	< 0.00350	2.15	< 0.00500
		Nov-14		< 0.031		0.54	0.014	0.024 J	0.0027 J	7.6	< 0.0012	1.2	< 0.0019
		Apr-15		0.0819 J		1.00	0.0141	0.0240 J	< 0.00270	3.91	< 0.00120	2.07	< 0.00190
		Oct-15		1.88		1.09	0.0235	0.0254	< 0.00108	9.38	< 0.000480	2.32	0.00110 J
	OCD-7AR	Mar-13		1.63		5.00	0.257	< 0.0250	< 0.0250	11.9	< 0.0250	3.48	< 0.0250
		Nov-13		1.21		4.10	0.214	0.0171	< 0.00500	9.11	< 0.00500	3.49	0.00541
		Apr-14		0.89		4.00	0.158	0.0147	< 0.00200	7.59	< 0.00140	2.87	0.00425 J
		Apr-14	FD	0.88		4.10	0.165	0.0152	< 0.00200	8.08	< 0.00140	2.92	0.00356 J
		Nov-14		0.76		3.50	0.11	0.015 J	< 0.0027	4.3	< 0.0012	2.4	0.0020 J
		Apr-15		0.715		4.29	0.0840	0.0111 J	< 0.00270	1.66	< 0.00120	2.56	< 0.00190
		Oct-15		1.20		4.12	0.201	0.0162	< 0.00108	9.36	< 0.00048	2.88	0.0023 J
	OCD-7B	Mar-13		< 0.0500		< 0.052	< 0.00500	0.016	< 0.00500	< 0.200	< 0.00500	0.0246	< 0.00500
		Apr-15		< 0.0310		0.12	0.00294 J	0.0196 J	< 0.00270	3.52	< 0.00120	0.71	< 0.00190
	OCD-8A	Apr-13		1.16		3.80	0.126	< 0.0250	< 0.0250	9.75	< 0.0250	3.78	< 0.0250
		Apr-13	FD	1.14		3.10	0.13	< 0.0250	< 0.0250	9.16	< 0.0250	3.56	< 0.0250
		Nov-13		0.44		0.58	0.0815	0.041	< 0.0100	10.3	< 0.0100	3	< 0.0100
		Apr-14		0.73		2.90	0.0676	0.023	< 0.00200	7.72	< 0.00140	3.14	< 0.00200
		Apr-14	FD	0.76		2.80	0.0683	0.0218	< 0.00200	7.73	< 0.00140	3.12	< 0.00200
		Nov-14		0.66		1.80	0.05	0.08	0.0072	13	< 0.0012	4.7	< 0.0019
		Apr-15		0.491		2.60	0.0541	0.0336	0.000836 J	12.3	< 0.000240	6.38	0.000802 J
		Oct-15		0.648		2.74	0.0622	0.0287	0.000787 J	9.7	0.000380 J	4.11	0.000836 J
	OCD-8B	Apr-13		0.30		0.89	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.417	< 0.0250
		Apr-15		< 0.0310		0.84	0.0126	0.0141	0.000872 J	0.239	0.000392 J	5.98	0.000525 J

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Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
Field E of Refinery	KWB-1A	Apr-13			< 0.053		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.332	< 0.0100
		Oct-13		< 0.0500	< 0.052		< 0.00500	0.0113	< 0.00500	< 0.200	< 0.00500	0.404	< 0.00500
		Apr-14			< 0.021		0.00441 J	0.01	< 0.00100	0.0770 J	< 0.000700	0.371	< 0.00100
		Nov-14			0.15 J		0.0035	0.0087	0.00069 JB	< 0.05	0.00029 JB	0.42	0.00076 J
		Apr-15			0.0932 J		0.00362	0.00932	0.000649 J	0.108	0.000599 J	0.543	0.00247
		Oct-15			0.11		0.00416	0.00949	< 0.000540	0.0387 J	0.000260 J	0.439	0.000753 J
	KWB-1C	Apr-13			< 0.044		< 0.0100	0.0146	< 0.0100	< 0.400	< 0.0100	< 0.0100	< 0.0100
		Apr-15			0.113		0.00338	0.00918	< 0.000540	0.0537 J	0.000320 J	0.462	0.000549 J
	KWB-7	Apr-13		< 0.0500	0.62		< 0.00500	0.0646	< 0.00500	1.09	< 0.00500	1.78	< 0.00500
		Nov-14			1.00		0.02	0.079	0.00082 JB	0.81	0.0015 JB	4.9	0.00064 J
		Apr-15			1.43		0.02	0.0645	0.000832 J	1.44	0.000625 J	5.65	< 0.000380
		Oct-15			0.72		0.00939	0.0647	< 0.000540	1.04	< 0.000240	4.09	< 0.000380
	KWB-10R	Nov-14			12.00		0.036	3.4	0.001	8.2	0.0042	0.19	0.00052 J
		Apr-15			9.16		0.0259	3.5	< 0.000540	7.48	0.00172 J	0.149	< 0.000380
		Oct-15			4.65		0.0217	3.72	< 0.000540	5.84	0.00109 J	0.157	< 0.000380
	KWB-11A	Apr-13		< 0.0500	< 0.051		< 0.00500	0.0213	< 0.00500	< 0.200	< 0.00500	0.0369	0.00826
		Nov-14		< 0.031	0.71		0.002	0.028	0.00076 JB	< 0.05	0.0061 B	0.16	0.0079
		Nov-14	FD	0.29	0.86		0.002	0.028	< 0.00054	< 0.05	0.0055	0.16	0.0082
		Apr-15		0.339	1.87		0.00251 J	0.0240 J	< 0.00270	< 0.0750	0.00825 J	0.294	0.00262 J
		Oct-15		0.217	0.65		0.00266	0.0267	< 0.000540	< 0.0150	0.00515	0.191	0.00776
	KWB-11B	Apr-13		< 0.0500	< 0.052		< 0.00500	0.0169	< 0.00500	< 0.200	< 0.00500	< 0.00500	0.0114
		Apr-14		2.74	3.20		0.00157 J	0.0117	< 0.00100	< 0.0500	0.000903 J	< 0.00250	0.00848
		Nov-14		< 0.031	< 0.022		0.0011 J	0.013	< 0.0027	< 0.05	0.00090 JB	0.0030 J	0.0073
		Apr-15		< 0.0310	0.0365 J		0.00147 J	0.0127	0.00116 J	< 0.0150	< 0.000240	0.00271 J	0.00783
		Oct-15		< 0.0314	< 0.0247		0.00185 J	0.0134	0.000703 J	< 0.0150	< 0.000240	0.000257 J	0.00769
	KWB-12A	Oct-13		< 0.0500	< 0.052		< 0.00500	0.0174	< 0.00500	< 0.200	< 0.00500	< 0.00500	0.0057
		Nov-14		< 0.031	< 0.022		0.0014 J	0.017	0.00086 JB	< 0.05	< 0.00024	0.0011 J	0.0052
		Nov-14	FD	< 0.031	0.074 J		0.0016 J	0.01	0.00060 J	< 0.05	< 0.00024	0.0016 J	0.0046
		Apr-15		< 0.0310	0.0310 J		0.00160 J	0.0168	0.00164 J	0.269	0.000780 J	0.00353 J	0.00435
		Apr-15	FD	< 0.0310	0.305		0.00145 J	0.0138	< 0.000540	< 0.0150	< 0.000240	0.000251 J	0.00375
		Oct-15		< 0.0314	< 0.0247		0.00242	0.017	0.000659 J	0.0285 J	< 0.000240	0.000862 J	0.00368
	KWB-12B	Apr-13		< 0.0500	< 0.052		< 0.00500	0.0105	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-13	FD	< 0.0500	< 0.052		< 0.00500	0.0108	< 0.00500	< 0.200	< 0.0100	< 0.00500	< 0.00500
		Oct-13		< 0.0500	< 0.052		< 0.00500	0.0097	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-14		< 0.0100	< 0.021		0.00286 J	0.00926	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.00318 J
		Apr-14	FD	< 0.0100	< 0.021		0.00240 J	0.0108	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.00363 J
		Nov-14		< 0.031	< 0.022		0.0015 J	0.013	0.00086 JB	< 0.05	< 0.00024	0.0027 J	0.0042
		Apr-15		< 0.0310	0.0740 J		0.00151 J	0.00823	0.000588 J	< 0.0150	< 0.000240	0.000826 J	0.00348
		Oct-15		< 0.0314	< 0.0247		0.00182 J	0.0118	< 0.000540	0.0175 J	< 0.000240	0.00117 J	0.0037
		Oct-15	FD	< 0.0314	0.0372 J		0.00237	0.0118	0.000599 J	0.0312 J	< 0.000240	< 0.000250 UB	0.00361
	KWB-P4	Apr-13			< 0.052								
		Apr-15			0.0820 J								

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Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
Field E of Refinery	MW-57	Apr-13		< 0.0500	0.32		0.0142	0.0264	0.00881	0.873	< 0.00500	0.516	< 0.00500
		Oct-13		0.36	0.67		0.0438	0.0669	< 0.00500	2.8	< 0.00500	2.03	< 0.00500
		Apr-14		0.35	0.78		0.0889	2.17	0.0456	38.8	0.0269	2.73	0.00342 J
		Nov-14		0.047 J	0.26 J		0.0055	0.052	0.0015	1	0.0019 J	1.3	0.0088
		Apr-15		< 0.0310	0.2		0.00495	0.0267	0.00104 J	0.658	0.000946 J	0.192	0.03
		Oct-15		< 0.0314	0.24		0.0066	0.0339	< 0.000540	0.301	0.000729 J	0.852	0.0159
	MW-58	Oct-13		6.91	1.70		0.0511	0.681	< 0.00500	1.81	< 0.00500	0.881	< 0.00500
		Nov-14			7.80		0.0078	0.67	0.00083 J	0.66	0.0058	0.094	0.00040 J
		Apr-15			9		0.0121	0.819	< 0.000540	1.76	0.00339	0.0946	< 0.000380
		Oct-15			5.11		0.0081	1.03	< 0.000540	1.29	0.00190 J	0.117	< 0.000380
	MW-111	Apr-13		2.49	1.70		0.0136	0.166	< 0.00500	6.18	< 0.00500	1.86	< 0.00500
		Oct-13		2.26	1.40		0.0114	0.211	< 0.00500	7.88	< 0.00500	1.72	< 0.00500
		Apr-14		2.36	1.30		0.0114	0.254	0.00252 J	7.64	0.000856 J	1.57	< 0.00100
		Nov-14		1.70	2.00		0.014	0.22	0.0024	8	0.0013 J	1.6	0.00046 J
		Apr-15		1.37	1.90		0.0201	0.147	0.00167 J	5.03	0.00141 J	1.72	< 0.000380
		Oct-15		0.674	2.10		0.0144	0.127	0.00239	7.14	0.00205	1.52	< 0.000380
	MW-112	Nov-14		28.00	2.20		0.005	7.6	0.0021	5.8	0.0013 J	0.31	0.0018 J
	MW-113	Apr-13		< 0.0500	0.20		< 0.00500	0.0405	< 0.00500	0.375	< 0.00500	0.389	< 0.00500
		Oct-13		3.05	< 0.051		< 0.00500	0.0259	< 0.00500	0.261	< 0.00500	0.404	< 0.00500
		Apr-14		17.30	0.23		0.00326 J	0.0882	0.00423 J	1.87	0.00211 J	0.408	< 0.00200
		Nov-14		2.40	0.64		0.0088	0.047	0.00059 J	0.68	0.00025 J	1.9	0.00044 J
		Nov-14	FD	2.70	0.82		0.0093	0.048	< 0.00054	0.7	< 0.00024	1.9	0.00070 J
		Apr-15		< 0.0310	0.33		0.00294	0.033	0.00171 J	0.559	0.000733 J	0.918	0.0025
		Apr-15	FD	< 0.0310	0.241		0.00418	0.0518	0.00221	1.01	0.000872 J	0.857	< 0.000380
		Oct-15		< 0.0314	0.12		0.00366	0.0242	< 0.000540	0.196	< 0.000240	0.765	< 0.000380
		Oct-15	FD	< 0.0314	0.0917 J		0.00379	0.0233	< 0.000540	0.203	< 0.000240	0.767	< 0.000380
	MW-125	Apr-14		0.0383 J	< 0.021		0.00471 J	0.011	< 0.00100	0.0544 J	< 0.000700	0.47	< 0.00100 B
		Nov-14		< 0.031	0.047 J		0.0036	0.0092	0.00056 J	< 0.05	< 0.00024	0.42	0.0033
		Apr-15		< 0.0310 UJ	< 0.0250 UB		0.00369	0.00961	< 0.000540	< 0.0150	< 0.000240	0.405	0.00581 J
		Oct-15		< 0.0314	0.0523 J		0.0044	0.00911	< 0.000540	0.0196 J	< 0.000240	0.371	0.00409
	MW-126A	Apr-14		0.14	0.71		0.00322 J	0.0163	0.00131 J	0.463	0.00132 J	0.194	0.00175 J
		Nov-14		0.41	0.88		0.0021	0.028	0.0017	1.7	0.0010 J	0.79	0.00053 J
		Apr-15		< 0.0310	0.76		0.0027	0.0185	0.00164 J	1.02	0.000293 J	0.824	< 0.000380
		Oct-15		0.64	0.57		0.00195 J	0.0146	< 0.000540	0.786	< 0.000240	0.642	< 0.000380
	MW-126B	Apr-14		0.08	0.34		0.00299 J	0.0182	< 0.00100	1.32	< 0.000700	0.918	< 0.00100
		Nov-14		< 0.031	0.28		0.0039	0.017	0.0013	0.39	0.00064 J	0.098	0.0026
		Apr-15		< 0.0310	0.39		0.00377 J	0.0110 J	< 0.00270	< 0.0750	< 0.00120	0.0892	0.00215 J
		Oct-15		< 0.0314	0.14		0.00442	0.0116	0.000580 J	0.154	0.000342 J	0.0609	0.00206
	MW-127	Apr-14		37.70	3.50		0.00433 J	0.785	0.00192 J	1.66	0.000968 J	0.156	< 0.00100
		Nov-14		6.10	1.30		0.0064	1.2	0.0035	3.9	0.002	0.14	0.0012 J
		Apr-15		9.73	1.68		0.00626	0.534	0.00241	1.64	0.00138 J	0.109	< 0.000380
		Oct-15		6.54	0.59		0.00499	0.116	< 0.000540	0.323	< 0.000240	0.0943	< 0.000380

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
Field E of Refinery	MW-128	Apr-14		3.19	2.10		0.0549	0.0867	0.00181 J	3.53	0.00132 J	2.33	< 0.00100
		Nov-14		1.20	2.40		0.062	0.094	0.0051	5	0.013	2.6	0.0012 J
		Apr-15		1.23 J	3.00		0.052	0.0783	0.000905 J	2.94	0.00246	2.42	< 0.000380 UB
		Oct-15		0.644	1.78		0.0552	0.0772	< 0.000540	2.65	< 0.000240	2.31	< 0.000380
	MW-129	Nov-14		4.60	2.70		0.027	0.66	0.0045	7.8	0.0044	1.2	0.0032
		Apr-15		3.29	2.45		0.0338	0.498	0.00227	6.42	0.00277	1.21	< 0.000380
		Oct-15		4.11 J	1.31		0.0271	0.546	< 0.000540	5.07	0.000292 J	1.09	< 0.000380
	MW-130	Apr-14		< 0.0100	0.33		0.00474 J	0.037	0.00626	2.84	0.00398 J	0.202	0.00569
		Nov-14		< 0.031	0.70		0.0046	0.026	0.0025	1.2	0.0012 J	0.12	0.0037
		Apr-15		< 0.0310 UJ	0.96		0.00718	0.677	0.00205	0.143 J	0.00929	0.242	< 0.00190 UB
		Oct-15		< 0.0314	0.51		0.00477	0.0195	0.000567 J	0.162	0.000362 J	0.0921	0.00224
	MW-131	Apr-14		26.20	3.40		0.0196	2.37	0.00159 J	2.25	0.00106 J	0.378	< 0.00100
		Nov-14		9.10	3.70		0.023	2.6	0.0028	3.8	0.0014 J	0.36	0.00050 J
		Apr-15		7.68	2.80		0.022	2.67	0.000747 J	2.34	0.000919 J	0.316	< 0.000380
		Oct-15		6.76	4.00		0.0261	2.88	0.00371	4.71	0.00294	0.337	< 0.000380
	MW-133	Nov-14		9.40	2.80		0.019	0.13	0.00060 J	3.5	0.00080 J	0.38	< 0.00038
		Apr-15		11.3	3.10		0.00897	0.157	< 0.000540	5.53	0.00145 J	0.312	0.00124 J
	MW-134	Apr-14		< 0.0100	< 0.021		0.00701 J	0.0168	< 0.00200	0.581	< 0.00140	0.031	0.00570 J
		Nov-14		< 0.031	0.064 J		0.0059	0.015	0.0024	0.36	0.00024 J	0.031	0.012
		Apr-15		< 0.0310	0.10		0.00881 J	0.0143 J	0.00285 J	0.234 J	< 0.00120	0.00773 J	0.0197
		Apr-15	FD	< 0.0310	0.0886 J		0.00575	0.0107	0.00148 J	0.131	< 0.000240	0.00795	0.0129
		Oct-15		< 0.0314	0.0503 J		0.00621	0.0101	0.000869 J	< 0.0150	< 0.000240	0.0065	0.00756
		Oct-15	FD	< 0.0314	0.0457 J		0.0063	0.00964	0.000709 J	< 0.0150	< 0.000240	0.00594	0.00807
	MW-135	Apr-14		< 0.0100	< 0.021		0.00454 J	0.0856	0.00467 J	1.68	0.00227 J	0.0799	0.0344
		Nov-14		< 0.031	0.31		0.0088	0.41	0.018	9.6	0.01	0.42	0.038
		Apr-15		< 0.0310	0.0823 J		0.00871 J	0.413	0.0168	5.33	0.0119	0.5	0.0337
		Oct-15		< 0.0314	0.0571 J		0.00442	0.058	0.00319	1.52	0.00144 J	0.0438	0.0399
	RA-4196	Apr-13											
		Apr-13	FD										
		Nov-13											
		Nov-13	FD										
		Apr-14											
		Apr-15											
		Oct-15											
	RA-4798	Apr-13											
		Nov-13											
		Apr-14											
		Apr-14	FD										
		Nov-14											
		Apr-15											
		Oct-15											
	RW-18	Apr-13					< 0.0100	0.015	< 0.00500	0.496	< 0.00500	< 0.00500	0.0124
		Apr-14					0.00496 J	0.0137	< 0.00200	0.295 J	< 0.00140	0.00572 J	0.011
		Apr-15					0.00379	0.0105	0.000703 J	< 0.0150	< 0.000240	< 0.000250	0.00988

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
Field E of Refinery	RW-20	Apr-15			2.10		0.00375 J	0.527	< 0.00270	1.75	0.00354 J	0.872	< 0.00190
	RW-22	Apr-15			5.40		0.00248	0.816	0.0032	0.14	0.00397	0.845	0.00234
N Refinery	MW-23	Apr-13		30.40	17.00		0.00869	9.65	< 0.00500	< 0.200	< 0.00500	0.0959	< 0.00500
		Oct-13		38.30	20.00		0.0103	8.01	< 0.00500	< 0.200	< 0.00500	0.104	< 0.00500
		Apr-14		32.10	6.00		0.00898	9.23	< 0.00100	< 0.0500	0.00224 J	0.0877	0.00280 J
		Nov-14		39.00	6.00		0.022	0.1	0.0014 B	0.059 J	0.00075 J	0.21	0.0020 J
		Apr-15		31.1	6.79		0.0164	0.319	< 0.00270	0.56	0.00336 J	0.212	0.125
		Oct-15		34	41.80		0.0104	11	0.00113 J	0.0742 J	0.00578	0.089	0.00109 J
	MW-29	Apr-13		< 0.0500	0.30		0.014	0.0164	< 0.0100	< 0.400	< 0.0100	0.527	< 0.0100
		Oct-13		0.11	1.30		< 0.00500	0.0166	< 0.00500	< 0.200	< 0.00500	0.311	< 0.00500
		Apr-14		< 0.0100 B	0.51		0.00836	< 0.000900 B	< 0.00100	0.228	< 0.000700 B	0.558 J	0.00119 J
		Nov-14		< 0.031	1.20		0.00093 J	0.02	0.00062 JB	< 0.05	0.00037 J	0.47	0.00063 J
		Apr-15		< 0.0310	1.20		0.000896 J	0.017	< 0.000540	0.0678 J	< 0.000240	0.382	< 0.000380
		Oct-15		0.0738 J	0.66		0.00100 J	0.0161	< 0.000540	< 0.0150	< 0.00120	0.369	0.00165 J
	MW-39	Oct-13		2.37	4.60		0.0147	0.022	< 0.00500	< 0.200	< 0.00500	0.0383	< 0.00500
		Apr-15		0.147	5.20		0.00256 J	0.0228 J	< 0.00270	< 0.0750	< 0.00120	0.208	< 0.00190
		Oct-15		0.0759 J	3.83		0.00156 J	0.0222	< 0.000540	0.0199 J	< 0.00240	0.186	0.00266
	MW-40	Apr-13		0.92	1.70		< 0.0100	0.0284	< 0.0100	< 0.400	< 0.00500	0.0479	< 0.0100
		Apr-14		1.01	0.88		0.00157 J	0.0278	< 0.00100	< 0.0500	< 0.000700	0.0451	0.00202 J
		Apr-15		0.735	4.50		0.00122 J	0.0336	< 0.00270	0.345 J	0.00213 J	0.0398	< 0.00190
	MW-41	Apr-13		0.17	0.74		0.00746	0.0165	< 0.00500	< 0.200	< 0.00500	0.791	< 0.00500
		Oct-13		0.08	1.30		0.00849	0.016	< 0.00500	< 0.200	< 0.00500	0.832	< 0.00500
		Apr-14		0.23	0.30		0.00475 J	0.014	< 0.00100	0.0729 J	< 0.000700	0.854	0.00163 J
		Apr-15		0.103	1.60		0.00591 J	0.0203 J	< 0.00270	0.136 J	< 0.00120	1.01	< 0.00190
	MW-42	Apr-13		2.89	3.50		0.0144	0.0285	< 0.0100	0.475	< 0.00500	0.224	< 0.0100
		Oct-13		3.17	4.80		0.00973	0.0252	< 0.00500	0.213	< 0.00500	0.152	< 0.00500
		Apr-14		2.90	1.40		0.012	0.0284	< 0.00100	0.527	0.000766 J	0.189	0.00168 J
		Apr-15		1.37	7.00		0.00935 J	0.0242 J	< 0.00270	0.136 J	< 0.00120	0.171	0.00393 J
	MW-43	Apr-13		1.98	5.20		0.0102	0.102	< 0.00500	< 0.200	< 0.00500	0.439	< 0.00500
		Oct-13		6.73	8.00		0.0107	0.467	< 0.00500	< 0.200	< 0.00500	0.274	< 0.00500
		Oct-13	FD	6.94	8.30		0.0106	0.48	< 0.00500	< 0.200	< 0.00500	0.279	< 0.00500
		Apr-14		2.89	1.20		0.0106	0.103	< 0.00100	< 0.0500	< 0.000700	0.47	0.00128 J
		Nov-14		4.80	7.40		0.009	0.42	0.0013	< 0.05	0.0018 J	0.37	0.022 01J6
		Apr-15		2.65	8.04		0.0134	0.239	< 0.00270	< 0.0750	< 0.00120	0.402	0.0518
		Oct-15		30.5	9.95		0.018	0.108	0.00111 J	0.0583 J	0.000577 J	0.157	0.000853 J
	MW-59	Apr-13		0.13	< 0.052		0.0274	0.0168	< 0.00500	< 0.200	< 0.0100	0.506	< 0.00500
		Apr-14		0.25	0.07		0.0324	0.0144	< 0.00100	0.164 J	< 0.000700	0.464	0.00432 J
		Apr-15		< 0.0310 UJ	0.86		0.0172	0.0163	< 0.000540	0.163	0.000394 J	0.465	0.00573 J

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2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
N Refinery	MW-60	Apr-13		0.91	0.42		0.0124	0.0234	< 0.0100	< 0.400	< 0.00500	0.354	< 0.0100
		Apr-13	FD	0.94	0.39		0.0133	0.0228	< 0.0100	< 0.400	< 0.0100	0.37	< 0.0100
		Oct-13		0.78	0.34		0.0103	0.0207	< 0.00500	0.36	< 0.00500	0.402	< 0.00500
		Oct-13	FD	0.75	0.32		0.00996	0.0222	< 0.00500	0.366	< 0.00500	0.398	< 0.00500
		Apr-14		0.66	0.11		0.00662	0.0191	< 0.00100	0.0539 J	< 0.000700	0.348	< 0.00100
		Nov-14		0.54	0.63		0.0026	0.017	0.00065 J	0.065 J	0.00046 J	0.38	0.014
		Apr-15		0.238	1.10		0.00464 J	0.0177 J	< 0.000540	0.0725 J	0.000305 J	0.34	< 0.00190 UJ
		Apr-15	FD	0.228	1.00		0.00850 J	0.0177	< 0.000540	0.0960 J	< 0.000240	0.335	< 0.000380 UB
		Oct-15		0.241	0.80		0.00884	0.0167	< 0.000540	0.286	0.000907 J	0.332	0.014
		Oct-15	FD	0.249	0.63		0.0088	0.0179	< 0.000540	0.291	0.000328 J	0.342	< 0.000380
	MW-61	Apr-13		8.43	2.50		< 0.00500	0.0255	< 0.00500	< 0.200	< 0.00500	0.0199	< 0.00500
		Oct-13		1.95	3.30		< 0.00500	0.0375	< 0.00500	< 0.200	< 0.00500	0.0224	< 0.00500
		Apr-14		10.9 J	3.40		0.00127 J	0.0305	< 0.00100	0.0734 J	< 0.000700 B	0.0226	< 0.00100
		Nov-14		11.00	6.40		0.002	0.053	0.00081 J	< 0.05	0.0012 J	0.0044 J	0.0087
		Apr-15		6.77	9.40		0.00463 J	0.0499 J	< 0.00270	< 0.15	< 0.00240	0.00444 J	0.168
		Oct-15		5.13	3.32		0.00107 J	0.0246	0.00119 J	0.0828 J	0.00122 J	0.0416	0.00688
	MW-62	Apr-13		2.92	6.30		< 0.00500	0.653	< 0.00500	< 0.200	< 0.00500	0.00805	< 0.00500
		Oct-13		10.70	7.30		< 0.00500	0.141	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-14		7.37	2.00		0.00288 J	0.0679	< 0.00100	0.0711 J	< 0.000700	0.00786	0.00279 J
		Nov-14		42.00	29.00		0.01	9.3	0.0021	0.26	0.0098	0.1	0.0019 J
		Apr-15		21.10	36.90		0.0136	9.3	0.00149 J	0.0542 J	0.00419	0.0677	0.0187
		Oct-15		18.50	7.62		0.00293	0.0235	< 0.000540	0.0154 J	0.000278 J	0.00266 J	0.00587
	MW-67	Oct-13		9.46	5.50		< 0.00500	0.544	< 0.00500	< 0.200	< 0.00500	0.0771	< 0.00500
		Nov-14		0.81	4.20		0.0018 J	0.12	0.00074 J	< 0.05	0.00094 J	0.13	0.014
		Apr-15		0.78	8.40		0.00371	0.14	< 0.000540	0.0384 J	0.00113 J	0.08	0.000386 J
		Oct-15		2.16	5.18		0.0063	0.129	0.000623 J	< 0.0150	0.00100 J	0.0785	0.000445 J
	MW-90	Apr-13		0.22	3.90		< 0.00500	0.0188	< 0.00500	< 0.200	< 0.00500	0.0647	< 0.00500
		Oct-13		0.16	6.20		0.00701	0.0248	< 0.00500	0.72	< 0.00500	0.337	< 0.00500
		Apr-14		0.32	1.40		0.00439 J	0.0183	< 0.00100	0.0589 J	0.000780 J	0.0745	< 0.00100
		Nov-14		0.21	2.30		0.011	0.014	0.00067 J	0.41	< 0.00024	0.052	0.021
		Apr-15		0.24	7.68		0.00709	0.0233	< 0.000540	0.473	0.000242 J	0.345	0.00172 J
		Oct-15		0.17	0.99		0.00883	0.0126	< 0.000540	1.56	< 0.000240	0.0504	0.0334
	MW-91	Oct-13		7.89	6.90		< 0.00500	0.11	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Oct-13	FD	8.09	7.60		< 0.00500	0.11	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-14		11.90	2.90		0.00394 J	0.13	< 0.00100	0.117 J	0.00191 J	0.00450 J	< 0.00100
		Nov-14		7.90	11.00		0.0047	0.094	0.00099 J	< 0.05	0.0013 J	0.026	0.0098
		Apr-15		14.70	15.90		0.00509	0.094	< 0.000540	0.0957 J	0.00236	0.00502	0.0138
		Oct-15		12.20	20.30		0.00552	0.0824	< 0.000540	0.0165 J	0.0027	0.00246 J	0.0248
	MW-93	Apr-13		8.99	6.20		0.00737	0.0602	< 0.00500	< 0.200	< 0.00500	0.0192	< 0.00500
		Oct-13		9.74	10.00		0.00708	0.0835	< 0.00500	0.475	< 0.00500	0.183	0.00632
		Apr-14		9.90	14.00		0.00671	0.0823	0.00329 J	0.163 J	0.00288 J	0.0471	0.00282 J
		Nov-14		6.50	11.00		0.003	0.052	0.0065	3.2	0.0054	1.3	0.013
		Apr-15		3.67	15.30		0.00687 J	0.0346	0.00442 J	1.83	0.00126 J	0.227	0.0646
		Oct-15		5.14	16.50		0.00502	0.0486	0.00365	1.29	0.00327	0.12	0.0709

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Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				TPH			Metals						
				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
N Refinery	MW-94	Nov-14		5.50	9.40		0.017	0.78	0.0014	0.081 J	< 0.00024	0.0065	0.0012 J
		Oct-15		6.12	25.60		0.0215	1.57	0.00144 J	< 0.0150	< 0.000240	0.00194 J	0.000935 J
	MW-95	Apr-13		0.05	3.40		< 0.00500	0.13	< 0.00500	1.02	< 0.00500	0.0567	< 0.00500
		Apr-14		0.09	1.10		< 0.00100	0.126	< 0.00100	0.0549 J	< 0.000700	0.0419	< 0.00100
		Apr-15		< 0.0310	7.58		0.00133 J	0.0762	< 0.000540	0.0357 J	0.000477 J	0.0247	0.000381 J
	MW-96	Apr-13		26.60	6.40		< 0.00500	0.147	< 0.00500	0.261	< 0.00500	< 0.00500	< 0.00500
		Oct-13		25.50	5.40		0.00531	0.105	< 0.00500	< 0.200	< 0.00500	0.0075	< 0.00500
		Apr-14		25.80	2.20		0.00469 J	0.109	< 0.00100	< 0.0500	< 0.000700	0.00250 J	< 0.00100
		Nov-14		26.00	10.00		0.0049	0.073	0.0021	0.37	0.00089 J	0.11	0.0019 J
		Apr-15		45.10	12.00		0.00421	0.126	0.000816 J	0.0338 J	0.000576 J	0.00352 J	0.000731 J
		Oct-15		24.30	9.23		0.00397	0.158	0.000655 J	0.132	0.000953 J	0.00236 J	0.000640 J
	MW-98	Apr-13		26.20	6.20		< 0.00500	0.016	< 0.00500	< 0.200	0.0106	0.0287	< 0.00500
		Oct-13		29.20	3.10		< 0.00500	0.0179	< 0.00500	< 0.200	0.01	0.0339	< 0.00500
		Apr-14		32.10	2.20		0.00167 J	0.0156	< 0.00100	< 0.0500	0.00919	0.0259	0.00335 J
		Apr-14	FD	32.50	2.70		0.00177 J	0.0145	< 0.00100	< 0.0500	0.00934	0.0267	0.00464 J
		Nov-14		26.00	5.40		0.00068 J	0.017	0.0011	0.064 J	0.0079	0.027	0.02
		Apr-15		19.30	7.06		< 0.00250	0.0177 J	< 0.00270	< 0.0750	0.00894 J	0.0192 J	0.108
		Oct-15		18.60	6.38		0.00109 J	0.0149	0.000932 J	0.0339 J	0.00659	0.0213	0.00514
	MW-137	Oct-15		30	20.1		0.0525	0.127	0.00326	1.63	0.00596	0.12	0.00218
	MW-138	Oct-15		5.08	6.73		0.00728	0.131	0.00218	2.54	0.00195 J	0.249	0.000743 J
	RW-1	Apr-15		2.95 J	12.00		0.00607	0.0305	0.0029	0.216	0.000495 J	0.126	0.00302 J
	RW-2	Apr-15		18.30	19.70		0.0264	0.0245 J	0.00553 J	0.381 J	0.00233 J	0.313	0.0705
	RW-7	Apr-15		1.05	9.70		0.00239 J	0.508	< 0.00270	0.0976 J	< 0.00120	0.028	< 0.00190
	RW-8	Apr-15			7.30		0.00556 J	0.0889	< 0.00270	0.427 J	< 0.00120	0.0556	0.00200 J
	RW-9	Apr-13		4.14	2.30		< 0.0100	0.0703	< 0.0100	< 0.400	< 0.00500	0.288	< 0.0100
		Apr-14		3.26	0.48		0.00434 J	0.047	< 0.00100	0.942	< 0.000700	0.417	0.00250 J
		Apr-15		2.55	3.20		0.00392	0.0397	0.00102 J	0.257	0.000449 J	0.46	0.0144
	RW-10	Apr-13		< 0.0500	0.65		< 0.00500	0.0215	< 0.00500	1.79	< 0.00500	0.224	< 0.00500
		Apr-14		< 0.0100	0.15		0.00174 J	0.0185	< 0.00100	5.22	< 0.000700	0.217	0.00143 J
		Apr-15		< 0.0310	4.80		0.00171 J	0.0258	0.000561 J	0.454	< 0.000240	0.237	0.00517
	RW-16	Apr-13			0.58		0.0167	0.0163	< 0.00500	< 0.200	< 0.00500	0.485	< 0.00500
		Apr-14			0.11		0.0127	0.0141	< 0.00100	0.174 J	0.000789 J	0.576	0.00272 J
		Apr-14	FD		0.23		0.0132	0.0147	< 0.00100	0.184 J	< 0.000700	0.596	0.00278 J
		Apr-15			1.90		0.0171	0.0138 J	< 0.00270	< 0.0750	< 0.00120	0.421	< 0.00190
	RW-17	Apr-13		< 0.0500	0.29		0.0107	0.0244	< 0.00500	0.462	0.00563	0.704	< 0.00500
		Apr-14		< 0.0100	0.11		0.00888	0.0228	< 0.00100	0.471	0.019	0.675	0.00156 J
		Apr-15		< 0.0310	1.20		0.0111	0.0274	< 0.00270	0.0850 J	0.00425 J	0.121	0.0361
N RO Reject Field	MW-117	Feb-13		< 0.05	< 0.052		0.00498 J	0.0235	< 0.005	< 0.2	< 0.005	0.108	0.00427 J
		Nov-13		< 0.05	< 0.051		0.00347 J	0.0108	< 0.005	0.110 J	0.00125 J	0.00982	0.00380 J
		Apr-14		< 0.0100	< 0.022		0.00366 J	0.017	0.00210 J	0.78	0.00109 J	0.033	< 0.00100 B
		Nov-14		< 0.031	0.029 J		0.0025	0.02	0.0031	0.95	0.00072 J	0.014	0.0077
		Nov-14	FD	< 0.031	0.12 J		0.0024	0.016	0.0024	0.71	0.00086 J	0.014	0.0079
		Apr-15		< 0.0310	0.0323 J		0.00249 J	0.0162 J	< 0.00270	0.492 J	< 0.00120	0.00809 J	0.0168
		Oct-15		< 0.0314	< 0.0247		0.00351	0.0214	0.00364	1.42	0.00113 J	0.0149	0.00486

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
N RO Reject Field	MW-118	Feb-13		0.0436 J	< 0.052		0.011	0.0145	< 0.005	< 0.2	< 0.005	0.0232	0.00861
		Nov-13		< 0.05	< 0.052		0.0125	0.00964	0.00105 J	0.179 J	0.00107 J	0.00526	0.00327 J
		Apr-14		< 0.0100	< 0.021		0.0109	0.0147	0.00312 J	0.952	0.00266 J	0.0526	< 0.00100
		Nov-14		< 0.031	0.032 J		0.012	0.033	0.0032	1.1	0.0010 J	0.02	0.0065
		Apr-15		< 0.0310	0.0307 J		0.00977 J	0.0180 J	< 0.00270	0.253 J	0.00175 J	0.00454 J	0.00863 J
		Oct-15		< 0.0314	< 0.0247		0.0117	0.0131	0.00137 J	0.155	0.000329 J	0.00223 J	0.00509
	MW-119	Feb-13		0.0371 J	< 0.051		0.00294 J	0.00981	< 0.005	< 0.2	< 0.005	0.0424	0.00246 J
		Nov-13		< 0.05	< 0.053		0.00438 J	0.00973	0.00116 J	0.185 J	< 0.005	0.00459 J	0.00144 J
		Apr-14		< 0.0100	< 0.020		0.00470 J	0.0126	0.00119 J	0.35	< 0.000700	0.0148	< 0.00100 B
		Apr-14	FD	< 0.0100	< 0.021		0.00446 J	0.0126	0.00114 J	0.341	< 0.000700	0.0136	< 0.00100 B
		Nov-14		< 0.031	0.053 J		0.0062	0.06	0.0042	2.3	0.0016 J	0.062	0.0013 J
		Apr-15		< 0.0310	0.0353 J		0.00398 J	0.0156 J	< 0.00270	0.309 J	< 0.00120	0.0151 J	< 0.00190
		Oct-15		< 0.0314	< 0.0247		0.00417	0.0105	0.000744 J	0.0886 J	< 0.000240	0.00485 J	0.00189 J
NCL	MW-18	Apr-13			0.33		< 0.00500	0.0189	< 0.00500	< 0.200	< 0.00500	0.00548	0.012
		Apr-13	FD		0.34		0.00506	0.0183	< 0.00500	< 0.200	< 0.00500	< 0.00500	0.0126
		Apr-13			0.33		< 0.00500	0.0189	< 0.00500	< 0.200	< 0.00500	0.00548	0.012
		Oct-13			0.58		< 0.00500	0.025	< 0.00500	< 0.200	< 0.00500	0.017	0.00853
		Apr-14			0.28		0.00313 J	0.0168	< 0.00100	0.146 J	< 0.000700	0.0203	0.0112
		Apr-15			2.41		0.00321	0.0167	0.00108 J	< 0.0150	< 0.000240	0.00671	0.00947
	MW-45	Apr-13			0.44		< 0.00500	0.0168	< 0.00500	0.839	0.0061	0.52	< 0.00500
		Oct-13			0.55		< 0.00500	0.0175	< 0.00500	0.861	0.00623	0.574	< 0.00500
		Apr-14			0.27		0.00268 J	0.0159	< 0.00100	0.786	0.00443 J	0.535	0.00191 J
		Nov-14			0.86		0.0028	0.018	< 0.00054 B	0.82	< 0.00024 B	0.6	0.00071 J
		Apr-15			1.10		0.00395	0.0185	< 0.000540	1.66	0.00527	0.534	< 0.000380
		Oct-15			0.87		0.00373	0.0216	0.000591 J	0.6	0.00667	0.551	< 0.000380
	MW-53	Apr-13			< 0.053		< 0.00500	0.0267	< 0.00500	< 0.200	< 0.0100	1	< 0.00500
		Apr-14			< 0.021		0.00217 J	0.0232	< 0.00100	< 0.0500	< 0.000700	0.778	0.00141 J
		Apr-15			0.30		0.00179 J	0.0256	< 0.000540	0.0338 J	0.000252 J	1.2	0.00566
	MW-54A	Apr-13			0.92		< 0.00500	0.0197	< 0.00500	< 0.200	< 0.00500	0.458	< 0.00500
		Oct-13			1.40		< 0.00500	0.0192	< 0.00500	< 0.200	< 0.00500	0.516	< 0.00500
		Apr-14			0.57		0.00532	0.0181	< 0.00100	0.0714 J	0.000847 J	0.495	0.00134 J
		Nov-14			2.60		0.0045	0.019	< 0.00054 B	0.079 J	< 0.00024 B	0.45	< 0.00038
		Apr-15			2.93		0.00312	0.0173	< 0.000540	0.0537 J	< 0.000240	0.45	0.000509 J
		Oct-15			3.29		0.00312	0.0192	0.000898 J	< 0.0150	0.00110 J	0.488	0.00126 J
	MW-54B	Apr-13		< 0.0500	0.63		< 0.00500	0.0183	< 0.00500	< 0.200	< 0.00500	0.145	< 0.00500
		Apr-15		< 0.0310	2.47		0.0022	0.0165	< 0.000540	0.0520 J	< 0.000240	0.165	0.000400 J
	MW-55	Apr-13		< 0.0500	< 0.051		0.00653	0.00954	< 0.00500	< 0.200	< 0.00500	0.0304	0.0252
		Oct-13		< 0.0500	< 0.052		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0817	0.016
		Apr-14		< 0.0100	< 0.020		0.00506	0.0106	< 0.00100	0.0618 J	< 0.000700	0.195	0.0245
		Apr-14	FD	< 0.0100	< 0.021		0.00484 J	0.00952	< 0.00100	< 0.0500	< 0.000700	0.185	0.0238
		Nov-14		< 0.031	0.12		0.0045	0.013	< 0.00054 B	0.056 J	< 0.00024 B	0.093	0.013
		Apr-15		< 0.0310	0.23		0.00457	0.011	0.00108 J	0.0483 J	< 0.000240	0.139	0.019
		Oct-15		< 0.0314	0.30		0.00582	0.0128	0.00104 J	< 0.0150	< 0.000240	0.0468	0.00934

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
NCL	MW-56	Apr-13			0.21		0.00715	0.0128	< 0.00500	< 0.200	< 0.00500	0.333	0.005
		Oct-13			0.08		0.00668	0.0135	< 0.00500	< 0.200	< 0.00500	0.33	< 0.00500
		Apr-14			0.29		0.00689	0.0137	< 0.00100	< 0.0500	0.000927 J	0.36	0.00495 J
		Nov-14			0.80		0.0067	0.014	< 0.00054 B	0.061 J	< 0.00024 B	0.35	0.0031
		Apr-15			1.62		0.00727	0.0143	< 0.000540	0.0230 J	0.000739 J	0.293	0.00372
		Oct-15			0.68		0.00731	0.0166	< 0.000540	< 0.0150	0.000392 J	0.321	0.00491
	MW-108	Apr-13			4.20		< 0.00500	0.0425	< 0.00500	0.261	< 0.00500	0.0195	< 0.00500
		Oct-13			3.60		0.00869	0.0792	0.00547	< 0.200	< 0.00500	0.0551	< 0.00500
		Apr-14			3.00		0.00320 J	0.046	0.00333 J	0.31	0.00196 J	0.0338	0.00115 J
		Nov-14			7.70		0.0061	0.049	< 0.00054 B	< 0.05	< 0.00024 B	0.045	0.0012 J
		Apr-15			9.03		0.00462	0.0387	0.00259	0.0411 J	0.00155 J	0.0256	< 0.000380
		Oct-15			7.89		0.00399	0.0482	0.00226	0.0288 J	0.00157 J	0.0239	0.00234
	NCL-31	Apr-13			1.10		0.0112	0.0246	< 0.00500	0.939	< 0.00500	1.78	< 0.00500
		Oct-13			1.30		0.0103	0.0254	< 0.00500	0.866	< 0.00500	1.76	< 0.00500
		Apr-14			0.65		0.011	0.0229	< 0.00100	1.02	0.00104 J	1.83	0.00110 J
		Nov-14			2.00		0.026	0.021	< 0.00054 B	0.95	< 0.00024 B	2	0.00059 J
		Apr-15			2.38		0.00847	0.0224	0.000989 J	0.834	0.000803 J	1.7	< 0.000380
		Oct-15			2.10		0.00655	0.0334	0.00175 J	1.49	0.00140 J	2.28	< 0.000380
	NCL-32	Nov-14			2.30		0.013	0.2	0.0084	1.4	< 0.00024 B	0.47	0.00044 J
		Apr-15			2.80		0.00446 J	0.0556	0.00960 J	1.39	0.0167	0.968	< 0.00190
		Oct-15			7.50		0.00653	0.129	0.028	4.57	0.0289	1.34	0.000884 J
	NCL-33	Apr-13			2.10		< 0.00500	0.0282	< 0.00500	2.92	< 0.00500	0.0814	< 0.00500
		Oct-13			2.40		< 0.00500	0.0302	< 0.00500	2.98	< 0.00500	0.0872	< 0.00500
		Apr-14			1.20		0.00230 J	0.0246	< 0.00100	2.98	< 0.000700	0.0896	0.00142 J
		Nov-14			3.70		0.0019 J	0.032	< 0.00054 B	3.6	< 0.00024 B	0.11	0.00067 J
		Apr-15			4.60		0.00407 J	0.0247 J	< 0.00270	2.26	0.00569 J	0.108	< 0.00190
		Oct-15			5.30		0.00385	0.0274	< 0.000540	2.49	0.000259 J	0.117	0.000519 J
	NCL-34A	Oct-13			5.70		< 0.00500	1.05	< 0.00500	< 0.200	< 0.00500	0.0582	< 0.00500
		Nov-14			5.30		0.00042 J	0.26	0.00078 J	< 0.05	0.00066 J	0.053	< 0.00038
		Apr-15			10.00		< 0.00120	0.547	< 0.00270	< 0.0750	0.00183 J	0.0369	< 0.00190
		Oct-15			5.11		0.00218 J	0.382	< 0.00270	< 0.0750	0.00136 J	0.042	0.00641 J
	NCL-44	Apr-13			2.50		0.0405	0.036	0.00527	1.77	< 0.00500	0.694	< 0.00500
		Oct-13			3.00		0.0393	0.0302	< 0.00500	1.3	< 0.00500	0.658	< 0.00500
		Apr-14			1.50		0.0383	0.0276	< 0.00100	1.25	< 0.000700	0.656	0.00122 J
		Nov-14			3.90		0.042	0.031	< 0.00054 B	1.2	0.00064 J	0.68	0.00065 J
		Apr-15			5.50		0.0617	0.0311	< 0.00270	1.47	0.00123 J	0.703	< 0.00190
		Oct-15			6.17		0.07	0.0306	0.00105 J	2.09	0.000414 J	0.723	< 0.000380

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Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
NCL	NCL-49	Apr-13			< 0.052		< 0.00500	0.0116	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Oct-13			< 0.051		< 0.00500	0.012	< 0.00500	< 0.200	< 0.00500	0.00745	< 0.00500
		Apr-14			< 0.020		0.00187 J	0.0115	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.00451 J
		Nov-14			0.042 J		0.0014 J	0.012	< 0.00054 B	< 0.05	< 0.00024 B	0.0011 J	0.0032
		Nov-14	FD		0.028 J		0.0016 J	0.011	< 0.00054 B	< 0.05	< 0.00024 B	0.0015 J	0.0026
		Apr-15			0.0967 J		0.00151 J	0.0109	< 0.000540	0.0232 J	0.000252 J	0.00215 J	0.00279
		Apr-15	FD		0.0832 J		0.00145 J	0.0106	< 0.000540	< 0.0150	< 0.000240	0.00146 J	0.00281
		Oct-15			0.0770 J		0.00218	0.0118	< 0.000540	< 0.0150	< 0.000240	0.000528 J	0.00363
		Oct-15	FD		0.0960 J		0.00208	0.0116	< 0.000540	< 0.0150	< 0.000240	0.000279 J	0.00365
S Refinery	KWB-2R	Nov-14			5.50		0.0053	0.089	0.00060 J	0.57	0.0039	0.31	0.00048 J
		Apr-15			5.2		0.00281	0.274	0.000702 J	0.329	0.00468	0.356	< 0.000380
		Oct-15			3.95		0.0039	0.259	0.000641 J	0.0295 J	0.00195 J	0.0529	< 0.000380
	KWB-5	Oct-13		12.60	1.30		0.0238	3.73	< 0.00500	4.79	< 0.00500	2.17	< 0.00500
		Nov-14			1.80		0.024	3.7	0.00059 J	5.4	0.00042 J	2.3	0.00082 J
		Apr-15			2.30		0.0225	3.42	< 0.000540	3.39	0.000632 J	1.57	< 0.000380
		Oct-15			1.39		0.0209	3.65	< 0.000540	3.22	0.000340 J	1.59	< 0.000380
	KWB-6	Nov-14			1.80		0.0095	0.16	0.00073 J	0.77	0.0010 J	2.2	0.0013 J
		Apr-15			4.50		0.00621	0.294	< 0.000540	0.87	0.00182 J	2.16	< 0.000380
		Oct-15			1.41		0.0124	0.136	< 0.000540	0.558	0.00137 J	2.04	< 0.000380
	MW-28	Apr-13		6.08	2.70		< 0.00500	0.0492	< 0.00500	< 0.200	< 0.00500	0.0354	< 0.00500
		Oct-13		6.19	3.10		< 0.00500	0.0663	< 0.00500	< 0.200	< 0.00500	0.0408	< 0.00500
		Apr-14		6.32	3.00		0.00429 J	0.142	< 0.00100	< 0.0500	< 0.000700 B	0.0397	< 0.00100
		Nov-14		16.00	3.70		0.0067	0.1	0.0017 B	0.073 J	0.0045	0.1	0.0020 J
		Apr-15		7.85 J	13.00		0.00912 J	0.0772	0.000931 J	0.0712 J	0.011	0.0685	0.0204 J
		Oct-15		9.88	16.20		0.00936	0.0484	0.000931 J	0.0744 J	0.0136	0.0261	0.0205
	MW-48	Nov-14		4.5 J	4.00		0.033	0.35	0.0031	1.4	0.012	2	0.0014 J
		Apr-15		3.65 J	3.90		0.004	0.0204 J	< 0.000540	0.562	0.000320 J	0.0948 J	< 0.000380 UB
		Oct-15		2.99	2.97		0.0108	0.367	0.000690 J	0.131	0.00215	1.24	0.00487
	MW-50	Apr-13			0.16		< 0.00500	0.0198	< 0.00500	< 0.200	< 0.00500	1.31	< 0.00500
		Oct-13			< 0.052		< 0.00500	0.024	< 0.00500	0.43	< 0.00500	1.47	< 0.00500
		Apr-14			0.12		< 0.00100	0.0199	< 0.00100	0.123 J	0.00124 J	1.32	< 0.00100
		Nov-14			0.36 J		0.0042	0.024	0.00060 J	3.7	0.0010 J	1.5	0.00040 J
		Apr-15			0.90		0.00138 J	0.0226	< 0.000540	0.471	0.00102 J	1.53	< 0.000380
		Oct-15			0.64		0.00166 J	0.0219	< 0.000540	0.0271 J	0.000889 J	1.37	0.000495 J
	MW-52	Apr-13		< 0.0500	0.24		< 0.0100	0.00906	< 0.00500	< 0.200	< 0.00500	0.0726	< 0.00500
		Oct-13	FD	< 0.0500	< 0.052		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0344	< 0.00500
		Oct-13		< 0.0500	0.14		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0296	< 0.00500
		Apr-14		0.0223 J	0.17		0.00373 J	0.00923	< 0.00100	< 0.0500	< 0.000700	0.036	0.00103 J
		Apr-14	FD	0.0263 J	0.33		0.00349 J	0.00988	0.00143 J	0.0709 J	< 0.000700	0.0324	0.00124 J
		Nov-14		0.032 J	0.28 J		0.0033	0.0097	0.00057 J	< 0.05	0.00076 J	0.06	0.002
		Apr-15		< 0.0310 UJ	0.37		0.00318	0.0098	< 0.000540	0.0256 J	< 0.000240	0.0478	< 0.000380 UB
		Oct-15		< 0.0314	0.16		0.00429	0.0129	0.000582 J	0.0180 J	< 0.000240	0.0446	0.00187 J

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
S Refinery	MW-65	Nov-14		27.00	15.00		0.058	0.37	0.00074 J	8.6	0.0019 J	2.2	0.00042 J
		Apr-15		33.10	12.40		0.0186	3.08	< 0.000540	2.88	0.00153 J	0.79	< 0.000380
	MW-66	Apr-13		7.57	2.40		< 0.00500	1.93	< 0.00500	0.54	< 0.00500	0.283	< 0.00500
		Oct-13		10.70	1.4 J		< 0.00500	1.99	< 0.00500	0.601	< 0.00500	0.306	< 0.00500
		Oct-13	FD	10.90	3.2 J		< 0.00500	1.89	< 0.00500	0.56	< 0.00500	0.303	< 0.00500
		Apr-14		6.64	2.10		0.00300 J	1.9	< 0.00100	0.397 J	< 0.000700	0.335	< 0.00100
		Nov-14		23.00	3.30		0.0029	2.2	0.00076 J	1.4	0.0026	0.28	0.0015 J
		Apr-15		8.18	4.51		0.00298	2.35	< 0.000540	0.635	0.000902 J	0.189	< 0.000380
		Oct-15		8.74	1.40		0.0037	2	< 0.000540	0.792	0.000430 J	0.22	< 0.000380
	MW-99	Nov-14		14.00	2.50		0.012	0.43	0.0019	1.2	0.0038	0.29	< 0.00038
		Apr-15		6.76	1.94		0.00289	0.159	0.000639 J	0.457	0.00571	0.0802	0.000808 J
		Oct-15		19.40	1.87		0.00812	0.279	0.000832 J	0.382	0.00153 J	0.191	< 0.000380
	MW-101	Apr-13		6.76	3.50		0.00878	0.111	< 0.00500	0.294	< 0.00500	0.835	< 0.00500
		Oct-13		1.05	3.70		0.0689	0.0563	< 0.00500	2.75	< 0.00500	1.23	< 0.00500
		Apr-14		4.56	4.30		0.0320 J	< 0.000900 B	< 0.00100	1.42 J	< 0.000700	1.12	< 0.00100
		Nov-14		1.40	5.30		0.049	0.089	0.00061 J	1.8	0.00065 J	0.98	0.0012 J
		Apr-15		0.18	6.00		0.0939	0.0501	0.000581 J	3.58	< 0.000240	1.08	< 0.000380
		Oct-15		0.0803 J	5.08		0.056	0.0382	< 0.000540	2.59	< 0.00240	1.13	0.00344 J
	MW-102	Nov-14		36.00	9.50		0.012	0.25	0.0016	0.1 J	0.0026	0.049	0.0013 J
		Apr-15		24.50	9.96		0.01	6.21	< 0.000540	0.138	0.00344	0.0431	< 0.000380
		Oct-15		31.40	11.40		0.0123	0.423	0.00106 J	0.0723 J	0.00263	0.0273	0.000393 J
	MW-103	Apr-13		3.31	5.40		< 0.00500	0.823	< 0.00500	< 0.200	< 0.0100	< 0.00500	< 0.00500
		Apr-14		1.43 J	5.90		0.00270 J	1.47	< 0.00100 B	< 0.0500	< 0.000700 B	0.00278 J	< 0.00100
		Apr-15		4.15	8.66		0.00617 J	9.36	< 0.0110	< 0.3	< 0.00480	0.0125 J	0.0607 J
	MW-104	Apr-13		1.14	0.99		< 0.00500	0.019	< 0.00500	< 0.200	< 0.00500	0.0255	< 0.00500
		Oct-13		0.99	0.60		< 0.00500	0.0245	< 0.00500	< 0.200	< 0.00500	0.0274	< 0.00500
		Apr-14		1.42	0.72		< 0.00100	< 0.000900 B	< 0.00100	< 0.0500	< 0.000700	0.038	< 0.00100
		Apr-14	FD	1.42	0.69		< 0.00100	0.0188	< 0.00100	< 0.0500	< 0.000700	0.0216	< 0.00100 B
		Nov-14		1.3 J	0.70		0.0018 J	0.03	< 0.00054	< 0.05	< 0.00024	0.031	< 0.00038
		Nov-14	FD	1.40	0.62		0.0017 J	0.029	0.00075 J	< 0.05	< 0.00024	0.032	0.00095 J
		Apr-15		0.78	0.81		0.000408 J	0.0195	< 0.000540	0.0945 J	0.000364 J	0.0228	< 0.000380
		Apr-15	FD	0.88	0.79		0.000400 J	0.0196	< 0.000540	0.0490 J	< 0.000240	0.0217	< 0.000380
		Oct-15		1.05	1.06		0.00150 J	0.0229	0.000591 J	0.0385 J	< 0.000240	0.0148	< 0.000380
		Oct-15	FD	1.18	3.00		0.00149 J	0.0218	< 0.000540	< 0.0150	< 0.000240	0.0142	< 0.000380
	MW-105	Nov-14		14.00	7.80		0.011	0.12	0.0027	0.87	0.0025	0.27	0.012
		Apr-15		6.50	3.74		0.00662	0.108	0.00184 J	2.55	0.00279	0.105	< 0.000380
		Oct-15		4.37	2.31		0.00849	0.214	0.00221	1.07	0.00562	0.0917	0.0108 J
	MW-106	Apr-13		26.10	6.10		0.00686	0.0293	< 0.00500	0.416	0.014	0.0174	< 0.00500
		Oct-13		27.80	3.70		0.0083	0.029	< 0.00500	< 0.200	0.00728	0.0144	< 0.00500
		Apr-14		27.90	2.10		0.00755	0.03	0.00115 J	0.101 J	0.00337 J	0.0124	0.00320 J
		Apr-15		1.52	3.40		0.00491	0.089	0.00283	1.16	0.0296	0.147	0.00957
		Oct-15		23.80	19.60		0.00726	0.0451	0.00385	0.65	0.00907	0.0119	0.00522

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Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
S Refinery	MW-107	Apr-13		21.30	5.90		0.00702	2.33	< 0.00500	9.24	< 0.00500	0.277	< 0.00500
		Oct-13		21.40	6.20		0.0124	3.6	< 0.00500	11.9	< 0.00500	0.265	< 0.00500
		Apr-14		7.32	4.90		0.00688	2.74	< 0.00100	10.1	< 0.000700	0.27	< 0.00100
		Nov-14		17.00	4.90		0.015	0.52	0.00097 J	3.8	0.00049 J	0.39	< 0.00038
		Apr-15		9.85	7.20		0.0107	1.75	< 0.000540	0.787	0.000331 J	0.158	< 0.000380 UB
		Oct-15		14.9 J	4.72		0.00883	1.55	0.000625 J	0.368	0.000259 J	0.178	< 0.000380
	MW-109	Apr-13		2.12	1.70		0.028	0.867	< 0.00500	1.3	< 0.00500	0.421	< 0.00500
		Oct-13		1.01	0.93		0.0221	0.232	< 0.00500	0.573	< 0.00500	0.337	< 0.00500
		Apr-14		2.02	2.70		0.0223	0.562	0.00194 J	1.64	< 0.000700	0.345	< 0.00100
		Nov-14		1.00	3.70		0.0077	0.094	0.00076 J	0.46	< 0.00024	0.18	< 0.00038
		Apr-15		2.36	8.10		0.00554	0.101	< 0.000540	0.154	< 0.000240	0.14 J	< 0.000380 UB
		Oct-15		1.46	0.84		0.00134 J	0.112	0.000783 J	0.102	0.000334 J	0.127	0.00328
	MW-110	Apr-13		0.89	0.73		0.0386	0.067	< 0.00500	1.56	< 0.00500	2.34	< 0.00500
		Oct-13		0.33	0.25		0.0367	0.0643	< 0.00500	1.26	< 0.00500	2.25	< 0.00500
		Apr-14		2.05	1.20		0.0281	0.0599	< 0.00100	1.32	< 0.000700	1.44	< 0.00100
		Nov-14		0.47	0.82		0.051	0.048	0.00074 J	1.2	< 0.00024	1.8	0.00038 J
		Apr-15		1.12	2.20		0.00924	0.0617	0.000649 J	0.379	0.000690 J	0.612	< 0.000380 UB
		Oct-15		1.48	< 0.0247		0.013	0.0765	0.000557 J	0.321	0.000523 J	0.882	< 0.000380
	RA-313	Apr-13											
		Apr-14											
		Apr-15											
	RW-4	Apr-15			3.72		0.00183 J	0.0521	< 0.000540	0.0744 J	0.000665 J	0.104	< 0.000380
	RW-5R	Apr-15			6.42		0.00136 J	0.0259	< 0.000540	0.0952 J	0.000336 J	0.0177	< 0.000380
	RW-6	Apr-15			11.40		0.0332	1.66	< 0.000540	13.8	0.000574 J	0.28	< 0.000380
S RO Reject Field	MW-114	Feb-13		< 0.05	< 0.052		0.00561	0.0204	< 0.005	< 0.2	< 0.005	1.51	0.0222 J
		Nov-13		< 0.05	< 0.053		0.00539	0.0112	0.00119 J	0.167 J	< 0.005	0.035	0.00451 J
		Apr-14		< 0.0100	< 0.020		0.00292 J	0.0153	< 0.00100	0.0777 J	< 0.000700	1.2	< 0.00100 B
		Nov-14		< 0.031	0.032 J		0.0031	0.026	0.0023	0.81	0.00055 J	1.2	0.0018 J
		Apr-15		< 0.0310 UJ	< 0.0250 UB		0.00279	0.0165	0.000896 J	0.361	0.000317 J	0.927	< 0.000380 UB
		Oct-15		< 0.0314	< 0.0247		0.00355	0.0134	< 0.000540	0.0486 J	< 0.000240	0.905	0.000757 J
S RO Reject Field	MW-115	Feb-13		< 0.05	< 0.051		0.00499 J	0.0309	< 0.005	< 0.2	< 0.005	0.255	0.0081
		Nov-13		< 0.05	< 0.051		0.00616	0.011	< 0.005	< 0.2	< 0.005	0.0249	0.00506
		Apr-14		< 0.0100	< 0.021		0.00444 J	0.0102	< 0.00100	0.0685 J	< 0.000700	0.0262	< 0.00100 B
		Nov-14		< 0.031	0.11		0.0034	0.015	0.00086 J	0.13	0.00024 J	0.03	0.0028
		Apr-15		< 0.0310 UJ	< 0.0250 UB		0.00697 J	0.0118	< 0.000540	0.0684 J	< 0.000240	0.12	< 0.000380 UB
		Oct-15		0.0324 J	0.10		0.00761	0.0119	0.000763 J	0.0367 J	< 0.000240	0.124	0.000590 J
	MW-116	Feb-13		< 0.05	< 0.051		0.00797 J	0.0161	< 0.005	< 0.2	< 0.005	0.0437	0.00203 J
		Nov-13		< 0.05	< 0.054		0.00525	0.00989	< 0.005	< 0.2	< 0.005	0.0092	0.00611
		Nov-13	FD	< 0.05	< 0.053		0.00526	0.011	< 0.005	0.132 J	< 0.005	0.00576	0.00582
		Apr-14		< 0.0100	< 0.021		0.00442 J	0.0102	< 0.00100	0.108 J	< 0.000700	0.00627	< 0.00100 B
		Nov-14		< 0.031	0.026 J		0.0038	0.0098	0.0010 J	0.11	< 0.00024	0.0042 J	0.0055
		Apr-15		< 0.0310 UJ	< 0.0250 UB		0.00521	0.00931	< 0.000540	< 0.0150	< 0.000240	0.00454 J	< 0.000380 UB
		Oct-15		< 0.0314	0.0607 J		0.00825	0.0434	0.00542	2.45	0.00183 J	0.0815	0.000668 J

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Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
TEL	MW-49	Apr-13		1.90	5.00		0.00553	0.039	< 0.00500	< 0.200	< 0.00500	0.29	< 0.00500
		Apr-13	FD	1.90	5.10		0.00556	0.0404	< 0.00500	< 0.200	< 0.00500	0.289	< 0.00500
		Apr-13		1.90	5.00		0.00553	0.039	< 0.00500	< 0.200	< 0.00500	0.29	< 0.00500
		Oct-13		2.79	2.60		< 0.00500	0.0511	< 0.00500	< 0.200	< 0.00500	0.245	< 0.00500
		Apr-14		1.99	5.60		0.00457 J	0.0409	< 0.00100	< 0.0500	< 0.000700	0.302	0.00113 J
		Nov-14		1.00	7.00		0.0055	0.1	0.0082	3.4	0.012	0.33	0.0019 J
		Apr-15		0.65	8.60		0.00433	0.0514	0.00147 J	0.53	0.00133 J	0.269	< 0.000380
		Oct-15		1.58	7.66		< 0.000250 UB	0.0429	< 0.000540	0.0195 J	0.000453 J	0.209	0.0117
	TEL-1	Apr-13		0.22	5.10		< 0.00500	0.0125	< 0.00500	< 0.200	< 0.00500	0.153	< 0.00500
		Oct-13		0.28	3.90		< 0.00500	0.013	< 0.00500	< 0.200	< 0.00500	0.114	< 0.00500
		Apr-14		0.384 J	8.70		0.00402 J	0.0117	< 0.00100	< 0.0500	0.00109 J	0.0827	< 0.00100 B
		Apr-14	FD	0.35	7.70		0.00372 J	0.0108 J	< 0.00100	< 0.0500	< 0.000700	0.0751 J	< 0.00100 B
		Nov-14		0.20	6.00		0.0026	0.011	0.00090 J	< 0.05	< 0.00024	0.14	< 0.00038
		Apr-15		0.18	9.80		0.00537	0.0119	0.00501	0.0741 J	< 0.000240	0.0523	< 0.000380
		Oct-15		0.15	7.46		< 0.000250 UB	< 0.000360 UB	0.00318	0.0506 J	< 0.000240	0.103	0.00798 J
	TEL-2	Apr-13		6.51	12.00		0.0119	0.0652	< 0.00500	< 0.200	< 0.00500	0.0149	< 0.00500
		Oct-13		6.19	7.50		0.0109	0.0608	< 0.00500	< 0.200	< 0.00500	0.0189	< 0.00500
		Apr-14		6.08 J	17.00		0.0115	0.0729	0.00127 J	< 0.0500	0.00248 J	0.00988	0.00593
		Nov-14		1.7 J	18.00		0.012	0.11	0.0017	< 0.05	0.0024	0.013	0.0011 J
		Apr-15		5.12	20.00		0.0132	0.185	0.00134 J	0.0326 J	0.00276	0.0101	0.000383 J
		Oct-15		2.86	18.7 J		0.0118	0.153	0.00178 J	0.0291 J	0.00242	0.00753	0.00679
	TEL-3	Apr-13		0.72	4.00		< 0.00500	0.0135	< 0.00500	< 0.200	< 0.00500	0.0123	< 0.00500
		Oct-13		0.80	1.90		< 0.00500	0.0161	< 0.00500	< 0.200	< 0.00500	0.0197	< 0.00500
		Apr-14		0.971 J	8.30		0.00330 J	0.0147	0.00723	0.0610 J	< 0.000700	0.0122	< 0.00100 B
		Nov-14		0.45	6.30		0.0013 J	0.012	0.0053	0.076 J	< 0.00024	0.015	< 0.00038
		Apr-15		0.67	9.40		0.00354	0.0145	0.00466	0.0738 J	0.000599 J	0.00827	< 0.000380
		Oct-15		0.63	5.86		< 0.000250 UB	< 0.000360 UB	0.00613	0.0417 J	0.000435 J	0.0139	0.00966
	TEL-4	Apr-13		2.61	4.70		0.0085	0.0299	0.146	1.22	< 0.00500	0.587	< 0.00500
		Oct-13		3.02	2.60		0.0129	0.0475	0.0588	0.243	< 0.00500	0.763	< 0.00500
		Apr-14		3.11 J	8.60		0.0128	0.0376	0.223	0.0921 J	< 0.000700 B	0.408	0.00103 J
		Nov-14		3.30	7.40		0.01	0.043	0.38	0.093 J	< 0.00024 B	0.29	< 0.00038
		Nov-14	FD	2.80	5.70		0.01	0.042	0.51	0.13	< 0.00024 B	0.28	< 0.00038
		Apr-15		2.09	8.40		0.00613	0.0244	0.419	1.57	0.00227	0.872	< 0.000380
		Apr-15	FD	2.26	8.50		0.00598	0.0233	0.599	2.41	0.00262	0.86	0.000420 J
		Oct-15		2.77	4.98		0.0106	0.0338	0.315	0.107	0.00255	0.406	0.0201
		Oct-15	FD	2.70	5.73		0.00929	0.0326	0.281	0.107	0.00206	0.412	0.0135

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
TMD	MW-8	Apr-13		< 0.0500	< 0.053		0.0105	0.0123	0.262	0.838	< 0.0100	0.567	0.0233
		Oct-13		< 0.0500	< 0.052		0.00929	0.0123	0.0986	0.307	< 0.00500	0.584	0.0158
		Apr-14		< 0.0100	< 0.021		0.00884 J	0.0114	0.0212	< 0.100	< 0.00140	0.557	0.0237
		Apr-15		< 0.0310	0.38		0.0108	0.0107	0.234	0.779	0.000470 J	0.507	0.0188
	MW-16	Apr-13			< 0.052		< 0.0100	0.0162	< 0.0100	< 0.400	< 0.0100	0.052	< 0.0100
		Apr-14			0.06		0.00470 J	0.0151	< 0.00200	< 0.100	< 0.00140	0.244	0.00322 J
		Apr-15			0.34		0.00500 J	0.0174 J	< 0.00270	< 0.0750	< 0.00120	0.0950 J	0.00213 J
	MW-20	Apr-13			< 0.053		< 0.0100	0.0101	< 0.0100	< 0.400	< 0.0100	0.251	0.016
		Apr-14			< 0.020		0.00750 J	0.00905 J	< 0.00200	< 0.100	< 0.00140	0.0906	0.0179
		Apr-14	FD		< 0.020		0.00865 J	0.0103	< 0.00200	< 0.100	< 0.00140	0.08	0.017
		Apr-15			0.15		0.00621	0.0104	< 0.000540	0.0746 J	< 0.000240	0.00743	0.0289
	MW-21	Apr-13		< 0.0500	< 0.052		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.345	0.0305
		Oct-13		< 0.0500	< 0.051		0.0053	0.00844	< 0.00500	< 0.200	< 0.00500	0.614	0.0195
		Oct-13	FD	< 0.0500	< 0.053		0.00554	0.0079	< 0.00500	< 0.200	< 0.00500	0.629	0.0192
		Apr-14		< 0.0100	< 0.020		0.00724 J	0.00373 J	< 0.00200	< 0.100	< 0.00140	0.432	0.0259
		Nov-14		< 0.031	0.092 J		0.0054	0.008	0.00078 J	< 0.05	< 0.00024	0.82	0.018
		Apr-15		< 0.0310	0.18		0.00656 J	0.0100 J	< 0.00270	< 0.0750	< 0.00120	0.323 J	0.0258
		Oct-15		< 0.0314	0.19		0.00635	0.00939	< 0.000540	< 0.0150	< 0.000240	0.658	0.029
	MW-25	Apr-13			< 0.052		< 0.0100	0.0121	< 0.0100	< 0.400	< 0.0100	0.129	< 0.0100
		Apr-14			< 0.020		0.00502 J	0.0265	< 0.00500	< 0.250	< 0.00350	1.09	< 0.00500
		Apr-15			0.69		0.00984 J	0.0187 J	< 0.00270	< 0.0750	< 0.00120	0.582 J	0.0204
	MW-26	Apr-13			< 0.053		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.212	< 0.0100
		Apr-14			< 0.020		0.00413 J	0.00878 J	< 0.00200	< 0.100	< 0.00140	0.731	0.0241
		Apr-15			0.0530 J		0.00351	0.00944	< 0.000540	0.0811 J	< 0.000240	0.613	0.0197
	MW-27	Apr-13			< 0.052		< 0.00500	0.0145	< 0.00500	< 0.200	< 0.00500	0.0102	0.0199
		Apr-14			< 0.021		0.00249 J	0.0166	< 0.00100	< 0.0500	< 0.000700	0.00554	0.0192
		Apr-15			0.11		0.00239	0.0235	< 0.000540	< 0.0150	< 0.000240	0.0318	0.018
	MW-46R	Apr-13			< 0.052		< 0.00500	0.0121	< 0.00500	< 0.200	< 0.00500	0.0423	0.00735
		Oct-13			< 0.052		< 0.00500	0.0148	< 0.00500	< 0.200	< 0.00500	0.0809	< 0.00500
		Apr-14			< 0.021		0.00338 J	0.0259	0.00222 J	0.621	< 0.000700	0.0998	< 0.00100 B
		Nov-14			0.042 J		0.0042	0.024	0.0028	1.1	0.00083 J	0.14	0.0034
		Apr-15			0.0540 J		0.00307	0.0188	0.00106 J	0.297	0.000608 J	0.116	0.00116 J
	MW-68	Apr-13			< 0.052		< 0.00500	0.0147	< 0.00500	0.279	< 0.00500	< 0.00500	0.0314
		Apr-14			< 0.020		0.00325 J	0.0142	< 0.00200	< 0.100	< 0.00140	< 0.00500	0.0248
		Apr-15			0.13		0.00292	0.0159	< 0.000540	0.0594 J	0.000524 J	0.00131 J	0.0123
	MW-71	Apr-13			< 0.051		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	0.0398
		Apr-13	FD		< 0.052		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	0.0396
		Oct-13			0.10		0.00536	0.00969	< 0.00500	< 0.200	< 0.00500	< 0.00500	0.0417
		Apr-14			< 0.021		0.00458 J	0.0086	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.0452
		Apr-15			0.0930 J		0.00411	0.00897	0.000581 J	0.0373 J	< 0.000240	0.000898 J	0.0349
	MW-89	Apr-13			0.06		0.0132	0.0134	< 0.00500	< 0.200	< 0.00500	0.67	< 0.00500
		Apr-14			0.21		0.0128	0.014	< 0.00100	0.195 J	< 0.000700	0.537	0.0188
		Apr-15			2.40		0.00900 J	0.0144 J	< 0.00270	0.12 J	< 0.00120	0.0710 J	0.0275

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				TPH			Metals						
Analyte:				GRO	DRO	DRO - EP	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Selenium
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	2.00E-01	4.00E-01	1.00E-02	1.00E+00	5.00E-02	1.00E+00	1.50E-02	2.00E-01	5.00E-02
CGWSL Source:					NMED TPH	NMED TPH	USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL
Area	Location	Date	Dup										
TMD	NP-1	Apr-13		0.16	< 0.053								
		Oct-13											
		Apr-14											
		Nov-14											
		Apr-15											
		Oct-15											
	NP-2	Apr-13		< 0.0500	< 0.052								
	NP-6	Apr-13											
		Apr-15											
Upgradient	UG-1	Apr-13		< 0.0500	< 0.053		< 0.00500	0.0137	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-14		< 0.0100	< 0.021		0.00158 J	0.0128	0.00159 J	0.0832 J	< 0.000700	0.00575	0.00728
		Apr-15		< 0.0310	< 0.0250 UB		0.00113 J	0.0137	0.00242	0.0262 J	< 0.000240	0.000764 J	0.0103
	UG-2	Apr-13		< 0.0500	< 0.052		< 0.00500	0.0172	< 0.00500	< 0.200	< 0.00500	0.0801	< 0.00500
		Apr-13	FD	< 0.0500	< 0.053		< 0.00500	0.0182	< 0.00500	< 0.200	< 0.00500	0.0711	0.00581
		Apr-13		< 0.0500	< 0.052		< 0.00500	0.0172	< 0.00500	< 0.200	< 0.00500	0.0801	< 0.00500
		Apr-14		< 0.0100	< 0.020		0.00385 J	0.0167	< 0.00100	0.673	< 0.000700	0.488	0.00209 J
		Apr-15		< 0.0310	< 0.0250 UB		0.00205	0.0153	< 0.000540	< 0.0150	< 0.000240	0.011	< 0.000380 UB
	UG-3R	Apr-13		< 0.0500	< 0.053		< 0.00500	0.0149	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.00500
		Apr-14		< 0.0100	< 0.020		0.00184 J	0.017	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.00534
		Apr-14	FD	< 0.0100	< 0.020		0.00167 J	0.0163	< 0.00100	< 0.0500	< 0.000700	< 0.00250	0.0064
		Apr-15		< 0.0310	< 0.0250 UB		0.00258	0.0595	0.00368	2.05	0.000626 J	0.0725	< 0.000380 UB

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Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
Crossgradient	KWB-13	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	0.00302	< 0.000360	< 0.000310	0.000456 J	< 0.00390	< 0.000360	< 0.00210
	MW-17	Apr-14										
	NP-5	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	0.000804 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	RA-3156	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
	MW-136	Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
EP	MW-1R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-2A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-3	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-4A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0028 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000502 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000502 J	< 0.00214
	MW-4B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-5A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0025 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-5B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	0.000976 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

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Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
EP	MW-5C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-6A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-6B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-7A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0018 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-7B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-11A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14										
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15										
	MW-11B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-12	Apr-14										
	MW-13	Apr-14										
	MW-15	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-18A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-18B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
EP	MW-22A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0070 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000428 J	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000479 J	< 0.00214
	MW-22B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000381 J	< 0.00210
	MW-70	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0036 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-72	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-73	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.0053	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0021 J	< 0.00050	< 0.00070	< 0.00060	0.0028 J		< 0.0010
		Apr-15		< 0.000130	< 0.000380	0.00171	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-74	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0019 J	< 0.00050	< 0.00070	< 0.00060	0.0036 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.0012	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000710 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.00252	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-75	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0064 J		< 0.0010
		Nov-14		< 0.00065	< 0.0019	< 0.0019	< 0.0018	< 0.0015	< 0.0019	< 0.02		< 0.011
		Apr-15		< 0.00130	< 0.00380	< 0.00370	< 0.00360	< 0.00310	< 0.00390	< 0.0390	< 0.00360	< 0.0210
		Oct-15		< 0.000130	< 0.000383	0.000479 J	< 0.000361	< 0.000306	0.000950 J	< 0.00393	0.000944 J	< 0.00214
	MW-76	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0038 J		< 0.0010
		Nov-14		< 0.00065	< 0.0019	0.0026 J	< 0.0018	< 0.0015	< 0.0019	< 0.02		< 0.011
		Apr-15		0.000308 J	0.000384 J	0.000699 J	< 0.000360	< 0.000310	0.000697 J	< 0.00390	0.000429 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000531 J	< 0.000361	< 0.000306	0.000499 J	< 0.00393	0.000493 J	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
EP	MW-77	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.050
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0019 J	< 0.00050	< 0.00070	0.0019 J	0.0066 J		< 0.0010
		Nov-14		< 0.00065	< 0.0019	0.0053	< 0.0018	< 0.0015	0.0044 J	< 0.02		< 0.011
		Apr-15		< 0.000130	< 0.000380	0.00333	< 0.000360	< 0.000310	0.00239	< 0.00390	0.0039	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.00348	< 0.000361	< 0.000306	0.00223	< 0.00393	0.00394	< 0.00214
	MW-78	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.050
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.011		< 0.0010
		Apr-15		0.000305 J	< 0.000380	0.00132	< 0.000360	< 0.000310	0.000829 J	< 0.00390	0.000558 J	0.00230 J
	MW-79	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-80	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-81	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-82	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0037 J		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0031 J		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-83	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0033 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-84	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	0.0054 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	0.0042 J		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-87	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

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Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
EP	MW-88	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-120	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-121	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-122	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-123	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-124	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-1R	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-2A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
EP	OCD-3	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-4	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-5	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-6	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-7AR	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0017 J	< 0.00050	< 0.00070	< 0.00060	0.0034 J		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	0.0016 J	< 0.00050	< 0.00070	< 0.00060	0.0026 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.00054 J	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000760 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.00013	< 0.000383	0.00129	< 0.000361	< 0.000306	< 0.000387	< 0.00393		< 0.00214
	OCD-7B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	OCD-8A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0010 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000370 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000454 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	OCD-8B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

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Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
Field E of Refinery	KWB-1A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	KWB-1C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	KWB-7	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-14		< 0.0013	< 0.0038	0.21	< 0.0036	< 0.0031	0.0085 J	< 0.039		< 0.021
		Apr-15		< 0.000130	< 0.000380	0.0766	< 0.000360	< 0.000310	0.000982 J	< 0.00390	0.0104	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.00557	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00808	< 0.00214
	KWB-10R	Nov-14		< 0.0032	< 0.0096	0.41	< 0.0090	< 0.0076	0.11	0.4		< 0.054
		Apr-15		< 0.00130	< 0.00380	0.457	< 0.00360	< 0.00310	0.136	< 0.0390	0.0122	< 0.0210
		Oct-15		< 0.000130	< 0.000383	0.358	< 0.000361	< 0.000306	0.1	< 0.00393	0.00927	< 0.00214
	KWB-11A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-14		< 0.00013	< 0.00038	0.052	< 0.00036	< 0.00031	0.0013	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	0.047	< 0.00036	< 0.00031	0.0011	< 0.0039 J4J3		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.0658	< 0.000360	< 0.000310	0.00168	< 0.00390	0.000636 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.0528	< 0.000361	< 0.000306	0.00117	< 0.00393	0.00457	< 0.00214
	KWB-11B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.23	< 0.00050	< 0.00070	0.0046 J	0.0053 J		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000489 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	KWB-12A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039 J4J3		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000452 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	KWB-12B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	0.000895 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	KWB-P4	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals									
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone	
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00	
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW	
Area	Location	Date	Dup										
Field E of Refinery	MW-57	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010	
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021	
		Apr-15		< 0.000130	< 0.000380	0.00163	< 0.000360	< 0.000310	0.000463 J	< 0.00390	< 0.000360	< 0.00210	
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214	
	MW-58	Oct-13		< 0.050	< 0.050	0.093	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Nov-14		< 0.0032	< 0.0096	0.86	< 0.0090	< 0.0076	0.098	< 0.098		< 0.054	
		Apr-15		< 0.00130	< 0.00380	1.04	< 0.00360	< 0.00310	0.195	< 0.0390	0.0119	< 0.0210	
		Oct-15		< 0.0130	< 0.0383	0.893	< 0.0361	< 0.0306	0.0651 J	< 0.393	< 0.0365	< 0.214	
	MW-111	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Oct-13		< 0.0050	< 0.0050	0.0053	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Apr-14		< 0.00050	< 0.00050	0.0021 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010	
		Nov-14		< 0.00013	< 0.00038	0.0074	< 0.00036	< 0.00031	0.0017	< 0.0039		< 0.0021	
		Apr-15		< 0.000130	< 0.000380	0.00256	0.000724 J	< 0.000310	0.000567 J	< 0.00390	< 0.000360	< 0.00210	
		Oct-15		< 0.000130	< 0.000383	0.00122	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214	
	MW-112	Nov-14		< 0.0032	< 0.0096	0.35	< 0.0090	< 0.0076	0.09	< 0.098		< 0.054	
	MW-113	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Oct-13		< 0.0050	< 0.0050	0.0097	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	
		Apr-14		< 0.00050	< 0.00050	0.058	< 0.00050	< 0.00070	0.026	< 0.0010		< 0.0010	
		Nov-14		< 0.00013	< 0.00038	0.041	0.00052 J	< 0.00031	0.0071	< 0.0039		< 0.0021	
		Nov-14	FD	< 0.0013	< 0.0038	0.039	< 0.0036	< 0.0031	0.0069 J	< 0.039 J4J3		< 0.021	
		Apr-15		< 0.000130	< 0.000380	< 0.000370	0.000497 J	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210	
		Apr-15	FD	< 0.000130	< 0.000380	0.000538 J	0.000383 J	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210	
		Oct-15		< 0.000130	< 0.000383	< 0.000373	0.000455 J	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214	
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214	
	MW-125	Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010	
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021	
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210	
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214	
	MW-126A	Apr-14		< 0.00050	< 0.00050	0.0030 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010	
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021	
Apr-15			< 0.000130	< 0.000380	0.000397 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210		
Oct-15			< 0.000130	< 0.000383	0.00251	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00415	< 0.00214		
MW-126B	Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010		
	Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021		
	Apr-15		< 0.000130	< 0.000380	0.000409 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210		
	Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214		
MW-127	Apr-14		< 0.00050	< 0.00050	0.29	< 0.00050	< 0.00070	0.063	0.0036 J		< 0.0010		
	Nov-14		< 0.00013	< 0.00038	0.078	< 0.00036	< 0.00031	0.0061	< 0.0039		< 0.0021		
	Apr-15		< 0.000130	< 0.000380	0.126	0.000418 J	< 0.000310	0.00854	< 0.00390	0.00324	< 0.00210		
	Oct-15		< 0.00260	< 0.00766	0.098	< 0.00722	< 0.00612	< 0.00774	< 0.0786	< 0.00730	< 0.0428		

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals								
				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
Field E of Refinery	MW-128	Apr-14		< 0.00050	< 0.00050	0.0095	< 0.00050	< 0.00070	0.0045 J	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.0028	< 0.00036	< 0.00031	0.00048 J	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.00374	< 0.000360	< 0.000310	0.000551 J	< 0.00390	0.000814 J	< 0.00210
		Oct-15		< 0.00260	< 0.00766	< 0.00746	< 0.00722	< 0.00612	< 0.00774	< 0.0786	< 0.00730	< 0.0428
	MW-129	Nov-14		< 0.0013	< 0.0038	0.014	< 0.0036	< 0.0031	0.0043 J	< 0.039 J4J3		< 0.021
		Apr-15		< 0.000130	< 0.000380	0.00286	< 0.000360	< 0.000310	0.000679 J	< 0.00390	0.00102	< 0.00210
		Oct-15		< 0.0130	< 0.0383	< 0.0373	< 0.0361	< 0.0306	< 0.0387	< 0.393	< 0.0365	< 0.214
	MW-130	Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-131	Apr-14		< 0.00050	< 0.00050	0.23	< 0.00050	< 0.00070	0.066	0.0078 J		< 0.0010
		Nov-14		< 0.0013	< 0.0038	0.058	< 0.0036	< 0.0031	0.016	< 0.039		< 0.021
		Apr-15		< 0.000130	< 0.000380	0.0486	< 0.000360	< 0.000310	0.0119	< 0.00390	0.00366	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.0231	< 0.000361	< 0.000306	0.00694	< 0.00393	0.00437	< 0.00214
	MW-133	Nov-14		< 0.013	< 0.038	0.28	< 0.036	< 0.031	0.053 J	< 0.39 J4J3		< 0.21
		Apr-15		< 0.0130	< 0.0380	0.138	< 0.0360	< 0.0310	< 0.0390	< 0.39	< 0.0360	< 0.21
	MW-134	Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-135	Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000793 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	RA-4196	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	RA-4798	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	0.0015	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	0.00311	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	0.00154	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	RW-18	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
Field E of Refinery	RW-20	Apr-15		< 0.00130	< 0.00380	0.539	< 0.00360	< 0.00310	0.113	< 0.0390	0.00931 J	< 0.0210
	RW-22	Apr-15		< 0.00130	< 0.00380	0.575	< 0.00360	< 0.00310	0.0853	< 0.0390	0.00967 J	< 0.0210
N Refinery	MW-23	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Apr-14		< 0.010	< 0.010	0.020 J	< 0.010	< 0.014	< 0.012	< 0.020		< 0.020
		Nov-14		< 0.0065	< 0.019	0.37	< 0.018	< 0.015	0.069	< 0.2		< 0.11
		Apr-15		< 0.00320	< 0.00960	0.473	< 0.00900 J	< 0.00760	0.0997	< 0.0980 J	< 0.00910	< 0.0540
		Oct-15		< 0.000130	< 0.000383	0.000677 J	< 0.000361	0.00206	< 0.000387	< 0.00393	0.0152	< 0.00214
	MW-29	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	0.000819 J	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000750 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000791 J	< 0.00214
	MW-39	Oct-13		< 0.0050	< 0.0050	0.064	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0068	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000987 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000527 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000697 J	< 0.00214
	MW-40	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.013	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	0.000498 J	< 0.000360	0.000769 J	< 0.000390	< 0.00390	0.0046	< 0.00210
	MW-41	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.0022	< 0.00210
	MW-42	Apr-13		< 0.0050	< 0.0050	0.094	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0074	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.11	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0064	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.063	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.00130	< 0.00380	0.0247	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.00592 J	< 0.0210
	MW-43	Apr-13		< 0.0050	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0097	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.11	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0094	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	0.11	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0098	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.029	< 0.00050	0.0032 J	0.0015 J	< 0.0010		< 0.0010
		Nov-14		< 0.0013	< 0.0038	0.027	< 0.0036	< 0.0031	< 0.0039	< 0.039		< 0.021
		Apr-15		< 0.00130	< 0.00380	0.0576	< 0.00360 J	0.00376 J	0.00448 J	< 0.0390 J	0.00912 J	< 0.0210
		Oct-15		< 0.00130	< 0.00383	0.477	< 0.00361	0.00782 J	0.101	< 0.0393	0.00763 J	< 0.0214
	MW-59	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00132	< 0.00210

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
N Refinery	MW-60	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0029 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		0.000307 J	< 0.000380	0.000879 J	0.000376 J	< 0.000310	< 0.000390	< 0.00390	0.00249	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	0.000430 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00112	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00287	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00293	< 0.00214
	MW-61	Apr-13		< 0.025	< 0.025	0.19	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.050
		Oct-13		< 0.025	< 0.025	0.2	< 0.025	< 0.025	0.098	< 0.050	< 0.025	< 0.050
		Apr-14		< 0.0025	< 0.0025	0.2	< 0.0025	< 0.0035	0.0058 J	< 0.0050		< 0.0050
		Nov-14		< 0.0065	< 0.019	0.43	< 0.018	< 0.015	0.1	< 0.2		< 0.11
		Apr-15		< 0.00130	< 0.00380	0.531	< 0.00360 J	< 0.00310	0.13	< 0.0390 J	0.0168	< 0.0210
		Oct-15		< 0.00130	< 0.00383	0.233	< 0.00361	< 0.00306	< 0.00387	< 0.0393	0.0115	< 0.0214
	MW-62	Apr-13		< 0.0050	< 0.0050	0.088	< 0.0050	< 0.0050	0.012	< 0.010	0.015	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.48	< 0.0050	< 0.0050	0.11	< 0.010	0.0092	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.27 E	< 0.00050	< 0.00070	0.06	< 0.0010		< 0.0010
		Nov-14		< 0.0065	< 0.019	< 0.019	< 0.018	< 0.015	< 0.019	< 0.2		< 0.11
		Apr-15		< 0.00130	< 0.00380	< 0.00370	< 0.00360 J	< 0.00310	< 0.00390	< 0.0390 J	0.0144	< 0.0210
		Oct-15		< 0.00260	< 0.00766	0.662	< 0.00722	< 0.00612	0.158	< 0.0786	0.0202	< 0.0428
	MW-67	Oct-13		< 0.0050	< 0.0050	0.029	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014	< 0.010
		Nov-14		< 0.00065	< 0.0019	0.0050 J	< 0.0018	< 0.0015	< 0.0019	< 0.02 J4		< 0.011
		Apr-15		< 0.000130	< 0.000380	0.00108	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00907	< 0.0021
		Oct-15		< 0.00260	< 0.00766	< 0.00746	< 0.00722	< 0.00612	< 0.00774	< 0.0786	< 0.00730	< 0.0428
	MW-90	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.006	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00285	< 0.0021
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00206	< 0.00214
	MW-91	Oct-13		< 0.0050	< 0.0050	0.26	< 0.0050	< 0.0050	0.072	< 0.010	0.018	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	0.27	< 0.0050	< 0.0050	0.072	< 0.010	0.018	< 0.010
		Apr-14		< 0.0025	< 0.0025	0.22	< 0.0025	< 0.0035	0.064	< 0.0050		< 0.0050
		Nov-14		< 0.032	< 0.096	0.18 J	< 0.09	< 0.076	< 0.097	< 0.98 J4J3		< 0.54
		Apr-15		< 0.00130	< 0.00380	0.184	< 0.00360	< 0.00310	0.0476	< 0.0390	0.00796 J	< 0.0021
		Oct-15		< 0.00325	< 0.00958	0.226	< 0.00902	< 0.00765	0.0626	< 0.0982	0.0134 J	< 0.0535
	MW-93	Apr-13		< 0.0050	< 0.0050	0.28	< 0.0050	< 0.0050	0.059	< 0.010	0.0077	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.3	< 0.0050	< 0.0050	0.067	< 0.010	0.011	< 0.010
		Apr-14		< 0.0025	< 0.0025	0.37	< 0.0025	< 0.0035	0.076	< 0.0050		< 0.0050
		Nov-14		< 0.0065	< 0.019	0.24	< 0.018	< 0.015	0.046 J	< 0.2		< 0.11
		Apr-15		< 0.00130	< 0.00380	0.206	< 0.00360 J	< 0.00310	0.0368	< 0.0390 J	0.00716 J	< 0.0210
		Oct-15		< 0.00130	< 0.00383	0.241	< 0.00361	< 0.00306	0.0414	< 0.0393	0.00653 J	< 0.0214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
N Refinery	MW-94	Nov-14		< 0.0026	< 0.0077	0.54	< 0.0072	< 0.0061	0.12	< 0.079 J4		< 0.043
		Oct-15		< 0.00130	< 0.00383	0.432	< 0.00361	< 0.00306	0.0857	< 0.0393	0.0283	< 0.0214
	MW-95	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00288	< 0.0021
	MW-96	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Apr-14		< 0.012	< 0.012	0.019 J	< 0.012	< 0.018	< 0.015	< 0.025		< 0.025
		Nov-14		< 0.0032	< 0.0096	< 0.0093	< 0.0090	< 0.0076	< 0.0097	< 0.098		< 0.054
		Apr-15		< 0.000130	< 0.000380	0.000553 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00551	< 0.0021
		Oct-15		< 0.0650	< 0.192	< 0.186	< 0.18	< 0.153	< 0.194	< 1.96	< 0.182	< 1.07
	MW-98	Apr-13		< 0.050	< 0.050	0.41	< 0.050	< 0.050	0.095	< 0.10	< 0.050	< 0.10
		Oct-13		< 0.050	< 0.050	0.42	< 0.050	< 0.050	0.096	< 0.10	< 0.050	< 0.10
		Apr-14		< 0.0050	< 0.0050	0.44	< 0.0050	< 0.0070	0.1	0.046 J		< 0.010
		Apr-14	FD	< 0.0050	< 0.0050	0.46	< 0.0050	< 0.0070	0.1	< 0.010		< 0.010
		Nov-14		< 0.032	< 0.096	0.34	< 0.09	< 0.076	< 0.097	< 0.98		< 0.54
		Apr-15		< 0.00320	< 0.00960	0.36	< 0.00900 J	< 0.00760	0.087	< 0.0980 J	0.00919 J	< 0.0540
		Oct-15		< 0.00325	< 0.00958	0.38	< 0.00902	< 0.00765	0.0836	< 0.0982	< 0.00912	< 0.0535
	MW-137	Oct-15		< 0.0130	< 0.0383	0.437	< 0.0361	< 0.0306	0.102	< 0.393	< 0.0365	< 0.214
	MW-138	Oct-15		< 0.00260	< 0.00766	0.0792	< 0.00722	< 0.00612	0.0189 J	< 0.0786	0.0144 J	< 0.0428
	RW-1	Apr-15		< 0.00650	< 0.0190	< 0.0190	< 0.0180	< 0.0150	< 0.0190	< 0.2	< 0.0180	< 0.11
	RW-2	Apr-15		< 0.00130	< 0.00380	0.33	< 0.00360 J	< 0.00310	0.0772	< 0.0390 J	0.012	< 0.0210
	RW-7	Apr-15		< 0.000130	< 0.000380	0.0818	< 0.000360	< 0.000310	0.000663 J	< 0.00390	0.0146	< 0.00210
	RW-8	Apr-15		< 0.00130	< 0.00380	0.00710 J	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.00942 J	< 0.0210
	RW-9	Apr-13		< 0.0050	< 0.0050	0.007	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.02	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0065	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.00650	< 0.0190	< 0.0190	< 0.0180	< 0.0150	< 0.0190	< 0.2	< 0.0180	< 0.11
	RW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	RW-16	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	RW-17	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
N RO Reject Field	MW-117	Feb-13										
		Nov-13										
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039 J4J3		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.00285	< 0.000360	< 0.000310	0.000897 J	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
N RO Reject Field	MW-118	Feb-13										
		Nov-13										
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.000863 J	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-119	Feb-13										
		Nov-13										
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	NCL	MW-18	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
Apr-13			FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
Apr-15				< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
MW-45		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
MW-53		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
MW-54A		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000428 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000742 J	< 0.00214
MW-54B		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
MW-55		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
NCL	MW-56	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-108	Apr-13		< 0.0050	< 0.0050	0.03	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.024	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	0.00063 J	0.031	0.0098	< 0.00070	0.0034 J	< 0.0010		0.0012 J
		Nov-14		< 0.00065	< 0.0019	0.039	< 0.0018	< 0.0015	0.0046 J	< 0.02		< 0.011
		Apr-15		< 0.00130	< 0.00380	0.0465	< 0.00360	< 0.00310	0.00603 J	< 0.0390	0.00565 J	< 0.0210
		Oct-15		< 0.00130	< 0.00383	0.0616	< 0.00361	< 0.00306	0.00805 J	< 0.0393	0.00655 J	< 0.0214
	NCL-31	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000683 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00164	< 0.00214
	NCL-32	Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	NCL-33	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.0021
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	NCL-34A	Oct-13		< 0.0050	< 0.0050	0.18	< 0.0050	< 0.0050	0.012	< 0.010	0.023	< 0.010
		Nov-14		< 0.00065	< 0.0019	0.11	< 0.0018	< 0.0015	< 0.0019	< 0.02		< 0.011
		Apr-15		< 0.000130	< 0.000380	0.0979	< 0.000360	< 0.000310	0.00122	< 0.00390	0.0159	< 0.0021
		Oct-15		< 0.000130	< 0.000383	0.0589	< 0.000361	< 0.000306	0.000423 J	< 0.00393	0.0174	< 0.00214
	NCL-44	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000390 J	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.000419 J	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
NCL	NCL-49	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
		Oct-15	FD	< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
S Refinery	KWB-2R	Nov-14		< 0.0032	< 0.0096	0.79	< 0.0090	< 0.0076	0.039	< 0.098		< 0.054
		Apr-15		< 0.00130	< 0.00380	0.307	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.0107	< 0.0210
		Oct-15		< 0.0130	< 0.0383	0.317	< 0.0361	< 0.0306	< 0.0387	< 0.393	< 0.0365	< 0.214
	KWB-5	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Nov-14		< 0.0013	< 0.0038	< 0.0037	< 0.0036	< 0.0031	< 0.0039	< 0.039		< 0.021
		Apr-15		< 0.000130	< 0.000380	0.0158	< 0.000360	< 0.000310	0.00419	< 0.00390	0.00291	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.00334	< 0.000361	< 0.000306	0.00179	< 0.00393	0.00314	< 0.00214
	KWB-6	Nov-14		< 0.0013	< 0.0038	0.26	< 0.0036	< 0.0031	0.047	< 0.039		< 0.021
		Apr-15		< 0.00320	< 0.00960	0.68	0.0119 J	< 0.00760	0.124	< 0.0980	0.00954 J	< 0.0540
		Oct-15		< 0.0650	< 0.192	0.325 J	< 0.18	< 0.153	< 0.194	< 1.96	< 0.182	< 1.07
	MW-28	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.00069 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.0032	< 0.0096	0.12	< 0.0090	< 0.0076	0.011 J	< 0.098		< 0.054
		Apr-15		< 0.0130	< 0.0380	0.0950 J	< 0.0360	< 0.0310	< 0.0390	< 0.39	< 0.0360	< 0.21
		Oct-15		< 0.0130	< 0.0383	0.151	< 0.0361	< 0.0306	< 0.0387	< 0.393	< 0.0365	< 0.214
	MW-48	Nov-14		< 0.0032	< 0.0096	0.2	< 0.0090	< 0.0076	< 0.0097	< 0.098		< 0.054
		Apr-15		< 0.00130	< 0.00380	0.14	< 0.00360	< 0.00310	0.00962 J	< 0.0390	0.00641 J	< 0.0210
		Oct-15		< 0.000650	< 0.00192	0.211	< 0.00180	< 0.00153	0.00235 J	< 0.0196	0.011	< 0.0107
	MW-50	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.000587 J	< 0.0021
		Oct-15		< 0.000130 J	< 0.000383 J	< 0.000373 J	< 0.000361	< 0.000306 J	< 0.000387 J	< 0.00393	0.000946 J	< 0.00214
	MW-52	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
S Refinery	MW-65	Nov-14		< 0.0065	< 0.019	0.06	< 0.018	< 0.015	0.022 J	< 0.2		< 0.11
		Apr-15		< 0.00130	< 0.00380	0.0514	< 0.00360	< 0.00310	0.0228	< 0.0390	0.0105	< 0.0021
	MW-66	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.013	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 J	< 0.010	0.015	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		0.0031 J
		Nov-14		< 0.0013	< 0.0038	0.012	< 0.0036	< 0.0031	< 0.0039	< 0.039		< 0.021
		Apr-15		< 0.00650	< 0.0190	< 0.0190	< 0.0180	< 0.0150	< 0.0190	< 0.2	< 0.0180	< 0.11
		Oct-15		< 0.000130	< 0.000383	0.00409	< 0.000361	< 0.000306	0.000859 J	< 0.00393	0.00938	< 0.00214
	MW-99	Nov-14		< 0.0013	< 0.0038	0.33	< 0.0036	< 0.0031	0.036	< 0.039		< 0.021
		Apr-15		< 0.00320	< 0.00960	0.337	< 0.00900	< 0.00760	0.0706	< 0.0980	0.0108 J	< 0.0540
		Oct-15		< 0.00325	< 0.00958	0.4	< 0.00902	< 0.00765	0.0169 J	< 0.0982	0.0113 J	< 0.0535
	MW-101	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0022 J	< 0.00050	< 0.00070	0.00092 J	< 0.0010		< 0.0010
		Nov-14		< 0.0013	< 0.0038	< 0.0037	< 0.0036	< 0.0031	< 0.0039	< 0.039		< 0.021
		Apr-15		< 0.000650	< 0.00190	< 0.00190	< 0.00180 J	< 0.00150	< 0.00190	< 0.0200 J	< 0.00180	< 0.0110
		Oct-15		< 0.000650	< 0.00192	< 0.00186	< 0.00180	< 0.00153	< 0.00194	< 0.0196	< 0.00182	< 0.0107
	MW-102	Nov-14		< 0.0065	< 0.019	0.26	< 0.018	< 0.015	0.059	< 0.2		< 0.11
		Apr-15		< 0.00130	< 0.00380	0.136	0.00548 J	< 0.00310	0.0278	< 0.0390	0.00509 J	< 0.0210
		Oct-15		< 0.0130	< 0.0383	0.465	< 0.0361	< 0.0306	0.115	< 0.393	< 0.0365	< 0.214
	MW-103	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.015	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	0.0102	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00396	< 0.00210
	MW-104	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.048	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.037	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Nov-14	FD	< 0.0013	< 0.0038	< 0.0037	< 0.0036	< 0.0031	< 0.0039	< 0.039 J4J3		< 0.021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.032	< 0.00210
		Apr-15	FD	< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.0328	< 0.00210
		Oct-15		< 0.000650	< 0.00192	< 0.00186	< 0.00180	< 0.00153	< 0.00194	< 0.0196	0.0378	< 0.0107
		Oct-15	FD	< 0.000130	< 0.000383	0.000420 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.0349	< 0.00214
	MW-105	Nov-14		< 0.032	< 0.096	0.11 J	< 0.09	< 0.076	< 0.097	< 0.98		< 0.54
		Apr-15		< 0.000650	< 0.00190	0.0678	< 0.00180 J	< 0.00150	0.0325	< 0.0200 J	0.0128	< 0.0110
		Oct-15		< 0.00130	< 0.00383	0.0487	< 0.00361	< 0.00306	0.0291	< 0.0393	0.0121	< 0.0214
	MW-106	Apr-13		< 0.050	< 0.050	0.16	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Oct-13		< 0.050	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.10
		Apr-14		< 0.010	< 0.010	0.097 J	< 0.010	< 0.014	0.018 J	< 0.020		< 0.020
		Apr-15		< 0.000130	< 0.000380	0.0173	< 0.000360	< 0.000310	0.00273	< 0.00390	0.000810 J	< 0.00210
		Oct-15		< 0.0130	< 0.0383	0.0921 J	< 0.0361	< 0.0306	< 0.0387	< 0.393	< 0.0365	< 0.214

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
S Refinery	MW-107	Apr-13		< 0.025	< 0.025	0.052	< 0.025	< 0.025	0.031	< 0.050	< 0.025	< 0.050
		Oct-13		< 0.025	< 0.025	0.03	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.050
		Apr-14		< 0.0050	< 0.0050	0.017 J	< 0.0050	< 0.0070	0.012 J	< 0.010		< 0.010
		Nov-14		< 0.0013	< 0.0038	0.031	< 0.0036	< 0.0031	0.0052 J	< 0.039		< 0.021
		Apr-15		< 0.00130	< 0.00380	0.0133	< 0.00360	< 0.00310	< 0.00390	< 0.0390	< 0.00360	< 0.0210
		Oct-15		< 0.0130	< 0.0383	0.1	< 0.0361	< 0.0306	< 0.0387	< 0.393	< 0.0365	< 0.214
	MW-109	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0027 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013 J5J3	< 0.00038 J5J3	0.00063 JJ3	< 0.00036 J3	< 0.00031 J5J3	0.00040 JJ5J3	< 0.0039 J5		< 0.0021 J5J3
		Apr-15		< 0.00130	< 0.00380	< 0.00370	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.00453 J	< 0.0210
		Oct-15		< 0.00130	< 0.00383	0.00487 J	< 0.00361	< 0.00306	< 0.00387	< 0.0393	0.00396 J	< 0.0214
	MW-110	Apr-13		< 0.0050	< 0.0050	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.03	< 0.00050	< 0.00070	0.0043 J	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.001	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.00548	< 0.000360	< 0.000310	0.00166	< 0.00390	0.00674	< 0.00210
		Oct-15		< 0.000650	< 0.00192	0.035	< 0.00180	< 0.00153	0.00228 J	< 0.0196	0.00654	< 0.0107
	RA-313	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	RW-4	Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00302	< 0.00210
	RW-5R	Apr-15		< 0.00130	< 0.00380	0.298	< 0.00360	< 0.00310	0.0558	< 0.0390	0.00691 J	< 0.0021
	RW-6	Apr-15		< 0.00130	< 0.00380	0.134	< 0.00360	< 0.00310	0.028	< 0.0390	0.00944 J	< 0.0021
S RO Reject Field	MW-114	Feb-13										
		Nov-13										
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
S RO Reject Field	MW-115	Feb-13										
		Nov-13										
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-116	Feb-13										
		Nov-13										
		Nov-13	FD									
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
TEL	MW-49	Apr-13		< 0.0050	< 0.0050	0.026	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	0.027	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13		< 0.0050	< 0.0050	0.026	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.043	< 0.0050	< 0.0050	0.0051	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.022	< 0.00050	< 0.00070	0.0018 J	< 0.0010		< 0.0010
		Nov-14		< 0.00026	< 0.00077	0.017	< 0.00072	< 0.00061	0.0018 J	< 0.0079		< 0.0043
		Apr-15		< 0.000130	< 0.000380	0.00954	< 0.000360	< 0.000310	< 0.000390	< 0.00390	0.00245	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.015	< 0.000361	< 0.000306	0.000858 J	< 0.00393	0.00371	< 0.00214
	TEL-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.0012 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	0.0012 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.00086 J	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	0.00103	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	0.000971 J	< 0.000361	< 0.000306	< 0.000387	< 0.00393	0.00166	< 0.00214
	TEL-2	Apr-13		< 0.0050	< 0.0050	0.19	< 0.0050	< 0.0050	0.037	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.17	< 0.0050	< 0.0050	0.031	< 0.010	0.0066	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.2	< 0.00050	< 0.00070	0.032	< 0.0010		< 0.0010
		Nov-14		< 0.0013	< 0.0038	0.14	< 0.0036	< 0.0031	0.026	< 0.039		< 0.021
		Apr-15		< 0.00260	< 0.00770	0.138	< 0.00720	< 0.00610	0.0198 J	< 0.0790	< 0.00730	< 0.0430
		Oct-15		< 0.000650	< 0.00192	0.138	< 0.00180	< 0.00153	0.0109	< 0.0196	0.00649	< 0.0107
	TEL-3	Apr-13		< 0.0050	< 0.0050	0.022	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.011	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.024	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.012	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.027	< 0.00050	< 0.00070	0.0029 J	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	0.016	< 0.00036	< 0.00031	0.0017	< 0.0039		< 0.0021
		Apr-15		< 0.00130	< 0.00380	0.0104	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.00899 J	< 0.0210
		Oct-15		< 0.000130	< 0.000383	0.0213	< 0.000361	< 0.000306	0.00128	< 0.00393	0.0111	< 0.00214
	TEL-4	Apr-13		< 0.0050	< 0.0050	0.093	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014	< 0.010
		Oct-13		< 0.0050	< 0.0050	0.089	< 0.0050	< 0.0050	0.027	< 0.010	0.013	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.099	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.0026	< 0.0077	0.11	< 0.0072	< 0.0061	< 0.0077	< 0.079		< 0.043
		Nov-14	FD	< 0.0026	< 0.0077	0.11	< 0.0072	< 0.0061	< 0.0077	< 0.079		< 0.043
		Apr-15		< 0.00130	< 0.00380	0.0742	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.0117	< 0.0210
		Apr-15	FD	< 0.00130	< 0.00380	0.0758	< 0.00360	< 0.00310	< 0.00390	< 0.0390	0.0118	< 0.0210
		Oct-15		< 0.000130	< 0.000383	0.074	< 0.000361	< 0.000306	0.000524 J	< 0.00393	0.0119	< 0.00214
		Oct-15	FD	< 0.00130	< 0.00383	0.0861	< 0.00361	< 0.00306	< 0.00387	< 0.0393	0.0145	< 0.0214

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
TMD	MW-8	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-16	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360 UJ	< 0.000310	< 0.000390	< 0.00390 UJ	< 0.000360	< 0.00210
	MW-20	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-21	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360 UJ	< 0.000310	< 0.000390	< 0.00390 UJ	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	< 0.000361	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	MW-25	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360 UJ	< 0.000310	< 0.000390	< 0.00390 UJ	< 0.000360	< 0.00210
	MW-26	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-27	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-46R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	0.00074 J	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-68	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-71	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	MW-89	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360 UJ	< 0.000310	< 0.000390	< 0.00390 UJ	< 0.000360	< 0.00210

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Analyte Group:				Volatile Organic Chemicals								
Analyte:				1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	2-Phenylbutane	4-Methyl-2-Pentanone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.00E-02	5.00E-03	1.50E-02	5.00E-03	5.00E-03	1.20E-01	5.56E+00	---	1.24E+00
CGWSL Source:				WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA TW	NMED TW		NMED TW
Area	Location	Date	Dup									
TMD	NP-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Nov-14		< 0.00013	< 0.00038	< 0.00037	< 0.00036	< 0.00031	< 0.00039	< 0.0039		< 0.0021
		Apr-15		< 0.000130	< 0.000380	< 0.000370	0.000581 J	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
		Oct-15		< 0.000130	< 0.000383	< 0.000373	0.000431 J	< 0.000306	< 0.000387	< 0.00393	< 0.000365	< 0.00214
	NP-2	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
	NP-6	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360 UJ	< 0.000310	< 0.000390	< 0.00390 UJ	< 0.000360	< 0.00210
Upgradient	UG-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	UG-2	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210
	UG-3R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
		Apr-14		< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-14	FD	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00070	< 0.00060	< 0.0010		< 0.0010
		Apr-15		< 0.000130	< 0.000380	< 0.000370	< 0.000360	< 0.000310	< 0.000390	< 0.00390	< 0.000360	< 0.00210

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
Crossgradient	KWB-13	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-17	Apr-14												
	NP-5	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	RA-3156	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
	MW-136	Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
EP	MW-1R	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-2A	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-3	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		0.018	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		0.0120 J	0.000609 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Apr-15	FD	0.0191 J	0.000638 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	Oct-15	FD	< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	
	MW-4A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.023	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	0.0013	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-4B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	0.00183	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000462 J
	MW-5A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.011	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-5B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380

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Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
EP	MW-5C	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-6A	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.0068 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	0.000715 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-6B	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Mar-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-7A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.0041 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Apr-15	FD	0.0184 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
		Oct-15	FD	< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-7B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-10	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-11A	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14												
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15												
	MW-11B	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-12	Apr-14												
	MW-13	Apr-14												
	MW-15	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-18A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-18B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380

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				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
EP	MW-22A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-13		0.011	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.019	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Apr-15	FD	< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
		Oct-15	FD	< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-22B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-70	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.011	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-72	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-13		0.014	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-73	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.0092 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-74	Mar-13		0.02	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.039	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.02	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		0.011 J	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-75	Mar-13		0.044	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.02	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.043	0.0011 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.05	< 0.0016	< 0.0014	< 0.0019	< 0.0023	< 0.0016	< 0.0014	< 0.0013	< 0.0018	< 0.0050	< 0.0019
		Apr-15		< 0.1	< 0.00330	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	< 0.00380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.000623 J	< 0.00100	< 0.000384
	MW-76	Mar-13		0.017	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.019	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.019	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.05	0.0049 J	< 0.0014	< 0.0019	< 0.0023	< 0.0016	< 0.0014	< 0.0013	< 0.0018	< 0.0050	< 0.0019
		Apr-15		0.0203 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	0.000328 J	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals									
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL
Area	Location	Date	Dup										
EP	MW-77	Mar-13		0.051	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
		Oct-13		0.051	0.0086	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Oct-13	FD	0.048	0.01	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.041	0.0020 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	0.0016 J
		Nov-14		0.056 J	0.019	< 0.0014	< 0.0019	< 0.0023	< 0.0016	< 0.0014	< 0.0013	0.0036 J	0.0072
		Apr-15		0.135	0.00962	0.00204	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00285	0.00363
		Oct-15		0.0357 J	0.00156	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.0031	0.00533
	MW-78	Mar-13		0.067	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
		Apr-14		0.07	0.0031 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	0.0013 J
		Apr-15		0.0649	0.0114	0.000862 J	< 0.000380	< 0.000450	< 0.000320	0.000450 J	< 0.000260	0.000443 J	0.00262
	MW-79	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Oct-13		0.01	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.000384
	MW-80	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.0045 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
	MW-81	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Mar-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
	MW-82	Mar-13		0.012	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.015	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Apr-14	FD	0.0097 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Apr-15		< 0.0100	0.000339 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
	MW-83	Mar-13		0.016	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Oct-13		0.031	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.021	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Nov-14		0.019 J	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	0.00044 J
		Apr-15		0.0235 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
		Oct-15		0.0103 J	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.000384
	MW-84	Mar-13		0.042	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Oct-13		0.061	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.043	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Nov-14		0.037 J	0.00070 J	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	0.00098 J
		Apr-15		0.0263 J	0.000664 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.000574 J
		Oct-15		0.0166 J	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.000384
	MW-87	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.000384

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Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
EP	MW-88	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-120	Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.0067 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		0.0158 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-121	Oct-13		0.011	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-122	Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		0.0115 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-123	Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		0.01 J	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-124	Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	OCD-1R	Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
Apr-15			< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380	
Oct-15			< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	
OCD-2A	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
	Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
	Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038	
	Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380	
	Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
EP	OCD-3	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	OCD-4	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	OCD-5	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.014	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	0.011	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	OCD-6	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		0.015	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	OCD-7AR	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		0.019	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	0.015	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.01	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.00026	< 0.00035	< 0.001	< 0.000384
	OCD-7B	Mar-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	0.000420 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	OCD-8A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Nov-13			< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Apr-14			< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
Apr-14		FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
Nov-14			< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038	
Apr-15			< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380	
OCD-8B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
	Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380	

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Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
Field E of Refinery	KWB-1A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	KWB-1C	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	KWB-7	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-14		< 0.1	0.077	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	0.0066 J	< 0.01	0.073
		Apr-15		< 0.0100	0.929	< 0.00280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.0285
		Oct-15		< 0.0100	0.0164	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.024
	KWB-10R	Nov-14		< 0.25 J3	5.1	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	0.013 J	< 0.025	0.4
		Apr-15		< 0.1	5.65	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00673 J	< 0.0100	0.528
		Oct-15		< 0.0100	6.77	< 0.0275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.00543	< 0.00100	0.523
	KWB-11A	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-14		< 0.01	0.0078	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.00062 J	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	0.0072	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.00056 J	< 0.0010	< 0.00038
		Apr-15		0.0176 J	0.0248	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000951 J	0.00102 J	< 0.000380
		Oct-15		< 0.0100	0.00571	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.000552 J	< 0.00100	< 0.000384
	KWB-11B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0065	< 0.0010	0.02
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00106 J	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	KWB-12A	Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Apr-15	FD	< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	KWB-12B	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
		Oct-15	FD	< 0.0100	< 0.000331	< 0.000275 UJ	< 0.000379	< 0.000453	< 0.000324	< 0.000276 UJ	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000384
	KWB-P4	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380

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Analyte Group:				Volatile Organic Chemicals										
Analyte:				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
Field E of Refinery	MW-57	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.012	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.0013 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	0.006	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000667 J
		Oct-15		< 0.0100	0.00123 J	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-58	Oct-13		< 0.10	2.5	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.073
		Nov-14		< 0.25	7.4	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	2.4
		Apr-15		< 0.1	6.03	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00770 J	< 0.0100	1.98
		Oct-15		< 1	6.89	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	2
	MW-111	Apr-13		< 0.010	0.09	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.016
		Oct-13		< 0.010	0.19	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.016
		Apr-14		0.054	0.11	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.0085
		Nov-14		< 0.01	0.18	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.026
		Apr-15		< 0.0100	0.0755	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.00824
		Oct-15		< 0.0100	0.0243	< 0.00688	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.00615
	MW-112	Nov-14		< 0.25	8.5	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	0.97
	MW-113	Apr-13		< 0.010	0.0095	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	0.64	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.19
		Apr-14		< 0.0020	2.3	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0015 J	< 0.0010	0.4
		Nov-14		< 0.01	1.5	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	0.00094 J	< 0.0010	0.007
		Nov-14	FD	< 0.1	1.2	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.0079 J
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00114 J	< 0.000380
		Apr-15	FD	< 0.0100	0.000402 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	0.000477 J	< 0.000275 J	< 0.000379 J	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	Oct-15	FD	< 0.0100	0.000533 J	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	
	MW-125	Apr-14		< 0.0020 B	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-126A	Apr-14		< 0.0020	0.0034 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		0.0351 J	0.0447	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.00475
	MW-126B	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01 J3	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-127	Apr-14		0.019	6.8	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0049 J	< 0.0010	0.93
		Nov-14		< 0.01 J3	1.8	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.0018	< 0.0010	0.24
		Apr-15		< 0.0100	4.41	< 0.0140	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00159	< 0.00100	0.424
		Oct-15		< 0.2	1.51	< 0.00550	< 0.00758	< 0.00906	< 0.00648	< 0.00552	< 0.00520	< 0.00700	< 0.0200	0.299

Table 4 - Summary of Groundwater Analytical Data

2015 Annual Groundwater Report

Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										
Analyte:				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
Field E of Refinery	MW-128	Apr-14		< 0.0020	0.24	< 0.00090	< 0.00060	< 0.00050	< 0.00060	0.0028 J	< 0.00060	< 0.00050	< 0.0010	0.043
		Nov-14		0.016 JJ3	0.12	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.012
		Apr-15		< 0.0100	0.297	0.000321 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.0114
		Oct-15		< 0.2	0.0297	< 0.00550	< 0.00758	< 0.00906	< 0.00648	< 0.00552	< 0.00520	< 0.00700	< 0.0200	< 0.00768
	MW-129	Nov-14		< 0.1	0.084	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.025
		Apr-15		< 0.0100	0.0372	< 0.0280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.00131
		Oct-15		< 1	< 0.0331	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	< 0.0384
	MW-130	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01 J3	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-131	Apr-14		0.016	3.1	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.006	< 0.0010	0.21
		Nov-14		< 0.1 J3	1.8	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	0.0036 J	< 0.01	0.067
		Apr-15		< 0.0100	1.91	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00103	< 0.00100	0.0692
		Oct-15		< 0.0100	2.19	< 0.0138	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.00105	< 0.00100	0.048
	MW-133	Nov-14		< 1	0.62	< 0.028	< 0.038	< 0.045	< 0.032	< 0.028	< 0.026	< 0.035	< 0.1	0.3
		Apr-15		< 1	0.788	< 0.0280	< 0.0380	< 0.0450	< 0.0320	< 0.0280	< 0.0260	< 0.0350	< 0.1	0.199
	MW-134	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01 J3	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00122 J	< 0.000380
		Apr-15	FD	< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
		Oct-15	FD	< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-135	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01 J3	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	0.000328 J	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	RA-4196	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Nov-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
Apr-15			< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00114 J	< 0.000380	
Oct-15			< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	
RA-4798	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	
	Nov-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	
	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
	Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
	Nov-14		< 0.01 J3	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038	
	Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00127 J	< 0.000380	
	Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384	
RW-18	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	
	Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050	
	Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380	

Table 4 - Summary of Groundwater Analytical Data

2015 Annual Groundwater Report

Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
Field E of Refinery	RW-20	Apr-15		< 0.1	1.87	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00401 J	< 0.0100	0.973
	RW-22	Apr-15		< 0.1	4.07	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00521 J	< 0.0100	1.09
N Refinery	MW-23	Apr-13		< 0.10	14	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.64
		Oct-13		< 0.10	15	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.35
		Apr-14		< 0.040	11	< 0.018	< 0.012	< 0.010	< 0.012	< 0.010	< 0.012	< 0.010	< 0.020	0.32
		Nov-14		< 0.5	15	< 0.014	< 0.019	< 0.023	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	0.19
		Apr-15		< 0.25	11.6	0.0664	< 0.00950	< 0.0110	< 0.00810	< 0.00690	< 0.00650	< 0.00880	< 0.0250 J	0.146
		Oct-15		0.06	20.3	0.000766 J	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.000898 J	< 0.00100	0.519
	MW-29	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	0.00030 J	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.0022	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	0.000401 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-39	Oct-13		< 0.010	0.33	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0072
		Apr-15		< 0.0100	< 0.000330	0.000372 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000713 J
		Oct-15		< 0.0100	< 0.000331	0.00117	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.000727 J
	MW-40	Apr-13		< 0.010	0.021	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.0055 J	0.011	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	0.0198	0.000595 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000399 J
	MW-41	Apr-13		< 0.010	0.014	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.0049 J	0.018	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	0.0019	0.000349 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-42	Apr-13		< 0.010	0.62	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	0.7	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.54	0.0013 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0011 J	< 0.0010	0.0030 J
		Apr-15		< 0.1	0.216	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	0.0106 J	< 0.00380
	MW-43	Apr-13		< 0.010	0.083	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0091
		Oct-13		< 0.010	1.5	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.061
		Oct-13	FD	< 0.010	1.6	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.065
		Apr-14		< 0.0020	0.35	0.0010 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0017 J	< 0.0010	0.015
		Nov-14		< 0.1	1.1	0.0037 J	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.021
		Apr-15		0.17 J	0.992	0.0262	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100 J	0.0483
		Oct-15		< 0.1	13	0.00398 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	< 0.00350	< 0.0100	0.179
	MW-59	Apr-13		< 0.010	0.037	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.013	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	0.0119	0.000870 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
N Refinery	MW-60	Apr-13		< 0.010	0.12	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-13	FD	< 0.010	0.12	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	0.075	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13	FD	< 0.010	0.075	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.03	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.0019 J
		Nov-14		< 0.01	0.0032	0.00041 J	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		0.0397 J	0.0127 J	0.00178	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000627 J
		Apr-15	FD	< 0.0100	0.00829 J	0.00374	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000450 J
		Oct-15		< 0.0100	0.00326	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.000394 J
		Oct-15	FD	< 0.0100	0.00307	0.000361 J	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.000395 J
	MW-61	Apr-13		< 0.050	1.5	< 0.050	< 0.025	< 0.025	0.12	< 0.025	< 0.025	< 0.025	< 0.050	0.091
		Oct-13		0.11	1.7	< 0.050	< 0.025	< 0.025	0.069	< 0.025	< 0.025	< 0.025	< 0.050	0.099
		Apr-14		< 0.010	1.6	< 0.0045	< 0.0030	< 0.0025	0.059	< 0.0025	< 0.0030	0.0045 J	< 0.0050	0.11
		Nov-14		< 0.5	1.3	< 0.014	< 0.019	< 0.023	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	0.16
		Apr-15		0.254 J	1.74 J	0.0258	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00425 J	< 0.0100 J	0.209
		Oct-15		< 0.1	0.681	0.00867 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	0.00467 J	< 0.0100	0.0659
	MW-62	Apr-13		< 0.010	0.55	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.031
		Oct-13		< 0.010	0.87	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.53
		Apr-14		< 0.0020	1	0.0026 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0034 J	< 0.0010	0.093
		Nov-14		< 0.5	17	< 0.014	< 0.019	< 0.023 J4	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	0.91
		Apr-15		0.106 J	12.8	0.0336	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100 J	0.457
		Oct-15		< 0.2	1.5	0.0161 J	< 0.00758	< 0.00906	< 0.00648	< 0.00552	< 0.00520	< 0.00700	< 0.0200	0.163
	MW-67	Oct-13		< 0.010	0.19	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0064	< 0.0050	< 0.010	0.051
		Nov-14		< 0.05 J4	0.14	0.0024 J	< 0.0019	< 0.0023	< 0.0016	< 0.0014	0.0022 J	< 0.0018	< 0.0050	0.005
		Apr-15		< 0.0100	0.143	0.00159	< 0.000380	< 0.000450	< 0.000320	< 0.000280	0.00198	0.00131	< 0.00100	0.00447
		Oct-15		< 0.2	0.172	< 0.00550	< 0.00758	< 0.00906	< 0.00648	< 0.00552	< 0.00520	< 0.00700	< 0.0200	< 0.00768
	MW-90	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	0.016	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.0035 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	0.015	0.00037 J	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.00039 J
		Apr-15		< 0.0100	0.0125	0.00171	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000433 J
		Oct-15		< 0.0100	< 0.000331	< 0.000275 J	< 0.000379	< 0.000453	< 0.000324	< 0.000276 J	< 0.000260	0.000725 J	< 0.00100	< 0.000384
	MW-91	Oct-13		0.012	1.5	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01	< 0.010	0.046
		Oct-13	FD	< 0.010	1.6	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01	< 0.010	0.048
		Apr-14		0.027 J	2.2	0.0079 J	< 0.0030	< 0.0025	< 0.0030	< 0.0025	< 0.0030	0.0077 J	< 0.0050	0.15
		Nov-14		< 2.5	2.5	< 0.069	< 0.095	< 0.11	< 0.081	< 0.069	< 0.065	< 0.088	< 0.25	0.17 J
		Apr-15		< 0.1	2.91	0.0151	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00398 J	< 0.0100	0.491
		Oct-15		< 0.25	3.47	0.00849 J	< 0.00948	< 0.0113	< 0.00810	< 0.00690	< 0.00650	< 0.00875	< 0.0250	0.449
	MW-93	Apr-13		< 0.010	2.1	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.05
		Oct-13		0.016	2	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.12
		Apr-14		< 0.010	1.8	0.0059 J	< 0.0030	< 0.0025	< 0.0030	< 0.0025	< 0.0030	0.0085 J	< 0.0050	0.067
		Nov-14		< 0.5	1.3	0.014 J	< 0.019	< 0.023 J4	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	0.039 J
		Apr-15		< 0.1	0.734 J	0.0188	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00479 J	< 0.0100 J	0.0675
		Oct-15		< 0.1	1.21	0.00341 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	< 0.00350	< 0.0100	0.0717

Table 4 - Summary of Groundwater Analytical Data

2015 Annual Groundwater Report

Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										
Analyte:				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
N Refinery	MW-94	Nov-14		< 0.2 J4	0.37	0.02	< 0.0076	< 0.0091	< 0.0065	< 0.0055	< 0.0052	0.02	< 0.02	0.58
		Oct-15		< 0.1	0.339	0.00445 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	0.0301	< 0.0100	0.509
	MW-95	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	0.00148	0.00181	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-96	Apr-13		< 0.10	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050
		Oct-13		< 0.10	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050
		Apr-14		< 0.050	0.056 J	< 0.022	< 0.015	< 0.012	< 0.015	< 0.012	< 0.015	< 0.012	< 0.025	< 0.012
		Nov-14		< 0.25	< 0.0083	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	< 0.0096
		Apr-15		< 0.0100	0.00288	0.00168	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000719 J	< 0.00100	0.00172
		Oct-15		< 5	< 0.166	< 0.138	< 0.19	< 0.226	< 0.162	< 0.138	< 0.13	< 0.175	< 0.5	< 0.192
	MW-98	Apr-13		< 0.10	6.8	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	1
		Oct-13		< 0.10	5.8	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	1.2
		Apr-14		0.038 J	5.8	0.016 J	< 0.0060	< 0.0050	< 0.0060	< 0.0050	< 0.0060	0.0080 J	< 0.010	1
		Apr-14	FD	0.059 J	6.1	< 0.0090	< 0.0060	< 0.0050	< 0.0060	< 0.0050	< 0.0060	< 0.0050	< 0.010	1
		Nov-14		< 2.5	4.8	< 0.069	< 0.095	< 0.11 J4	< 0.081	< 0.069	< 0.065	< 0.088	< 0.25	0.63
		Apr-15		< 0.25	4.17	0.102	< 0.00950	< 0.0110	< 0.00810	< 0.00690	< 0.00650	< 0.00880	< 0.0250 J	0.927
		Oct-15		< 0.25	4.79	0.0344	< 0.00948	< 0.0113	< 0.00810	< 0.00690	< 0.00650	< 0.00875	< 0.0250	0.659
	MW-137	Oct-15		< 1	9.44	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	1.59
	MW-138	Oct-15		< 0.2	1.54	< 0.00550	< 0.00758	< 0.00906	< 0.00648	< 0.00552	< 0.00520	< 0.00700	< 0.0200	0.569
	RW-1	Apr-15		< 0.5	0.962	< 0.0140	< 0.0190	< 0.0230	< 0.0160	< 0.0140	1.02	< 0.0180	< 0.0500	0.0470 J
	RW-2	Apr-15		0.334 J	5.34	0.00899 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	0.619	0.00554 J	< 0.0100 J	1.02
	RW-7	Apr-15		< 0.0100	0.0535	0.00171	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00705	< 0.00100	0.0185
	RW-8	Apr-15		< 0.1	0.0412	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	0.0113 J	0.00801 J
	RW-9	Apr-13		< 0.010	1.1	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.68	0.0015 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0013 J	< 0.0010	0.0015 J
		Apr-15		< 0.5	0.79	< 0.0140	< 0.0190	< 0.0230	< 0.0160	< 0.0140	< 0.0130	< 0.0180	0.0564 J	< 0.0190
	RW-10	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		0.01 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00120 J	< 0.000380
	RW-16	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00114 J	< 0.000380
	RW-17	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00112 J	< 0.000380
N RO Reject Field	MW-117	Feb-13			< 0.001				< 0.001					< 0.001
		Nov-13			< 0.001				< 0.001					< 0.001
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00179	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals												
				Analyte:	Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene	
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01	
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL		
Area	Location	Date	Dup													
N RO Reject Field	MW-118	Feb-13			0.0042				< 0.001					0.0024		
		Nov-13			< 0.001				< 0.001					< 0.001		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000657 J	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
	MW-119	Feb-13			0.0036				< 0.001					0.0021		
		Nov-13			< 0.001				< 0.001					< 0.001		
		Apr-14		< 0.0020 B	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
	NCL	MW-18	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	
Apr-13			FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
Apr-13				< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
Oct-13				< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
Apr-14				0.0045 J	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
Apr-15				< 0.0100	< 0.000330	0.000695 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
MW-45		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
MW-53		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
MW-54A		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
MW-54B		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-15		0.0128 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
MW-55		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										
Analyte:				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
NCL	MW-56	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-108	Apr-13		< 0.010	0.39	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.016	0.43	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		0.0079 J	0.39	0.0020 J	0.009	< 0.00050	0.0037 J	< 0.00050	< 0.00060	0.0019 J	< 0.0010	0.0049 J
		Nov-14		< 0.05	0.41	0.014	< 0.0019	< 0.0023	< 0.0016	< 0.0014	< 0.0013	0.0028 J	< 0.0050	0.0056
		Apr-15		< 0.1	0.423	0.0317	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.0101
		Oct-15		< 0.1	0.394	0.00291 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	< 0.00350	< 0.0100	0.00812 J
	NCL-31	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	0.0094	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	NCL-32	Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	NCL-33	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	0.00105	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275 J	< 0.000379 J	< 0.000453	< 0.000324	< 0.000276 J	< 0.000260	< 0.000350	< 0.00100 J	< 0.000384
	NCL-34A	Oct-13		< 0.010	1.9	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.25
		Nov-14		< 0.05	0.27	< 0.0014	< 0.0019	< 0.0023	< 0.0016	< 0.0014	< 0.0013	0.0082	< 0.0050	0.0048 J
		Apr-15		< 0.0100	1.21	0.00152	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00696	< 0.00100	0.00565
		Oct-15		< 0.0100	0.695 J	0.00167	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.00732	< 0.00100	0.00215
	NCL-44	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	0.0011 J	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384

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Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
NCL	NCL-49	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Nov-14	FD	< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Apr-15	FD	< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
		Oct-15	FD	< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
S Refinery	KWB-2R	Nov-14		< 0.25 J3	4.4	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	2.9
		Apr-15		< 0.1	1.98	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	0.00468 J	< 0.0100	0.992
		Oct-15		< 1	4	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	1.72
	KWB-5	Oct-13		< 0.10	0.7	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050
		Nov-14		< 0.1 J3	0.41	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.0095 J
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000613 J	< 0.00100	0.0395
		Oct-15		< 0.0100	1.2 J	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.000434 J	< 0.00100	0.0151
	KWB-6	Nov-14		< 0.1	5.1	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	0.0042 J	< 0.01	0.81
		Apr-15		< 0.25	15.9	< 0.00690	< 0.00950	< 0.0110	< 0.00810	< 0.00690	< 0.00650	< 0.00880	< 0.0250	2.04
		Oct-15		< 5	8.61	< 0.138	< 0.19	< 0.226	< 0.162	< 0.138	< 0.13	< 0.175	< 0.5	0.831
	MW-28	Apr-13		< 0.010	0.62	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0053
		Oct-13		< 0.010	0.58	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020 B	0.81	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.0052
		Nov-14		0.56 J	3.3	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	0.15
		Apr-15		< 1	3.02	0.0471 J	< 0.0380	< 0.0450	< 0.0320	< 0.0280	< 0.0260	< 0.0350	< 0.1	0.0625 J
		Oct-15		< 1	3.05	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	0.0441 J
	MW-48	Nov-14		< 0.25 J3	0.14	< 0.0069	< 0.0095	< 0.011	< 0.0081	< 0.0069	< 0.0065	< 0.0088	< 0.025	0.075
		Apr-15		< 0.1	0.89	0.00704 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.158
		Oct-15		< 0.0500	0.204 J	< 0.00138	< 0.00190	< 0.00226	< 0.00162	< 0.00138	< 0.00130	0.00472 J	< 0.00500	0.0655
	MW-50	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	0.00031 J	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.00086 J	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	0.0011	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331 J	0.000553 J	< 0.000379 J	< 0.000453	< 0.000324 J	< 0.000276	< 0.000260 J	< 0.000350 J	< 0.00100	< 0.000384 J
	MW-52	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.000275 J	< 0.000379 J	< 0.000453	< 0.000324	< 0.000276 J	< 0.000260	< 0.000350	< 0.00100 J	< 0.000384

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals												
				Analyte:	Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene	
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01	
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL		
Area	Location	Date	Dup													
S Refinery	MW-65	Nov-14		< 0.5 J3	8.9	< 0.014	< 0.019	< 0.023	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	1.2		
		Apr-15		< 0.1	9.99	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	1.03		
	MW-66	Apr-13		< 0.010	1.2	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0074	
		Oct-13		< 0.010	2.0 J	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 J	< 0.010	0.019		
		Oct-13	FD	< 0.010	2.2	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.02		
		Apr-14		< 0.0020 B	0.89	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.0039 J		
		Nov-14		< 0.1	6.5	< 0.0028	< 0.0038	< 0.0045 J4	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.19		
		Apr-15		< 0.5	3.16	< 0.0140	< 0.0190	< 0.0230	< 0.0160 J	< 0.0140	< 0.0130	< 0.0180	< 0.0500	0.0615		
		Oct-15		< 0.0100	4.1 J	0.000371 J	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.0234		
	MW-99	Nov-14		< 0.1 J3	2.6	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	0.0083 J	< 0.01	0.59		
		Apr-15		< 0.25	0.973	0.00720 J	< 0.00950	< 0.0110	< 0.00810 J	< 0.00690	< 0.00650	< 0.00880	< 0.0250	0.252		
		Oct-15		< 0.25	7.28	< 0.00688	< 0.00948	< 0.0113	< 0.00810	< 0.00690	< 0.00650	0.0122 J	< 0.0250	0.551		
	MW-101	Apr-13		< 0.010	2.1	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.054		
		Oct-13		< 0.010	0.19	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.025		
		Apr-14		< 0.0020 B	1.1	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0013 R	< 0.00050	< 0.0010	0.015		
		Nov-14		< 0.1	0.22	< 0.0028	< 0.0038	< 0.0045 J4	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.0050 J		
		Apr-15		< 0.0500	0.0187	< 0.00140	< 0.00190	< 0.00230	< 0.00160	< 0.00140	< 0.00130	< 0.00180	< 0.00500 J	0.00202 J		
		Oct-15		< 0.0500	< 0.00166	< 0.00138	< 0.00190	< 0.00226	< 0.00162	< 0.00138	< 0.00130	< 0.00175	< 0.00500	< 0.00192		
	MW-102	Nov-14		< 0.5 J3	11	< 0.014	< 0.019	< 0.023	< 0.016	< 0.014	< 0.013	< 0.018	< 0.05	0.99		
		Apr-15		< 0.1	9.83	0.00959 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.602		
		Oct-15		< 1	12.3	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	1.04		
	MW-103	Apr-13		< 0.010	0.58	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.036		
		Apr-14		< 0.0020	0.76	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0036 J	< 0.0010	0.15		
		Apr-15		< 0.0100	< 0.000330	0.000597 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.00207	< 0.00100	0.0879		
	MW-104	Apr-13		< 0.010	0.033	< 0.010	< 0.0050	< 0.0050	0.041	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Oct-13		< 0.010	0.076	< 0.010	< 0.0050	< 0.0050	0.013	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	0.056	< 0.00090	< 0.00060	< 0.00050	0.14	< 0.00050	< 0.00060	< 0.00050	0.02	0.0012 J		
		Apr-14	FD	< 0.0020	0.058	< 0.00090	< 0.00060	< 0.00050	0.14	< 0.00050	< 0.00060	< 0.00050	0.021	0.0013 J		
		Nov-14		< 0.01	0.094	< 0.00028	< 0.00038	< 0.00045 J4	0.014	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.0021		
		Nov-14	FD	< 0.1	0.11	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	< 0.0038		
		Apr-15		< 0.0100	0.0243	0.000469 J	< 0.000380	< 0.000450	0.00516 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Apr-15	FD	< 0.0100	0.0242	0.000723 J	< 0.000380	< 0.000450	0.00513 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.000481 J		
Oct-15			< 0.0500	0.257	0.00268 J	< 0.00190	< 0.00226	< 0.00162	< 0.00138	< 0.00130	< 0.00175	< 0.00500	0.0126			
Oct-15		FD	< 0.0100	0.309	0.000979 J	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	0.0117			
MW-105	Nov-14		< 2.5	3.4	< 0.069	< 0.095	< 0.11	< 0.081	< 0.069	< 0.065	< 0.088	< 0.25	0.58			
	Apr-15		0.126 J	1.71	< 0.00140	< 0.00190	< 0.00230	< 0.00160	< 0.00140	< 0.00130	0.00604	< 0.00500 J	0.545			
	Oct-15		< 0.1	0.58	0.00557 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	0.00614 J	< 0.0100	0.188			
MW-106	Apr-13		< 0.10	9.5	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.1			
	Oct-13		< 0.10	11	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.11			
	Apr-14		< 0.040	9.3	0.019 J	< 0.012	< 0.010	< 0.012	< 0.010	< 0.012	< 0.010	< 0.020	0.16			
	Apr-15		0.0270 J	0.395	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000357 J	0.00100 J	0.0206			
	Oct-15		< 1	10.4	0.0914 J	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	0.0823 J			

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals												
				Analyte:	Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene	
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01	
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL		
Area	Location	Date	Dup													
S Refinery	MW-107	Apr-13		< 0.050	5.9	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.3		
		Oct-13		< 0.050	6.3	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.2		
		Apr-14		< 0.020	7	< 0.0090	< 0.0060	< 0.0050	< 0.0060	< 0.0050	< 0.0060	< 0.0050	< 0.010	0.048 J		
		Nov-14		< 0.1	8.2	< 0.0028	< 0.0038	< 0.0045 J4	< 0.0032	< 0.0028	< 0.0026	< 0.0035	< 0.01	0.3		
		Apr-15		< 0.1	5.32	0.00287 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.00658 J		
		Oct-15		< 1	6.29	< 0.0275	< 0.0379	< 0.0453	< 0.0324	< 0.0276	< 0.0260	< 0.0350	< 0.1	0.0403 J		
	MW-109	Apr-13		< 0.010	0.38	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.06		
		Oct-13		< 0.010	0.095	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.023		
		Apr-14		< 0.0020	0.31	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.05		
		Nov-14		< 0.01	0.28	0.00054 J	< 0.00038 J3	< 0.00045 J4J6	< 0.00032 J5J3	0.0010 J	< 0.00026 J3	< 0.00035 J3	< 0.0010	0.02		
		Apr-15		< 0.1	0.621	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.019		
		Oct-15		< 0.1 J	0.845 J	< 0.00275	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	< 0.00350	< 0.0100	0.0126		
	MW-110	Apr-13		< 0.010	0.061	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.064		
		Oct-13		< 0.010	0.039	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0066		
		Apr-14		< 0.0020	0.081	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0017 J	< 0.0010	0.07		
		Nov-14		< 0.01	0.0015	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.0016		
		Apr-15		< 0.0100	0.132	0.00129	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000563 J	< 0.00100	0.00609		
		Oct-15		< 0.0500 J	0.348 J	< 0.00138	< 0.00190	< 0.00226	< 0.00162	< 0.00138	< 0.00130	0.00315 J	< 0.00500	0.182		
	RA-313	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Apr-15		< 0.0100	0.000366 J	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	0.00129 J	< 0.000380		
	RW-4	Apr-15		0.0289 J	0.0167	0.000854 J	< 0.000380	< 0.000450	< 0.000320 J	< 0.000280	< 0.000260	< 0.000350	< 0.00100	0.00245		
	RW-5R	Apr-15		< 0.1	2.92	< 0.00280	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	1.03		
	RW-6	Apr-15		< 0.1	0.636	0.00771 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	0.0476		
S RO Reject Field	MW-114	Feb-13			< 0.001				< 0.001					< 0.001		
		Nov-13			< 0.001				< 0.001					< 0.001		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100 J	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
S RO Reject Field	MW-115	Feb-13			< 0.001				< 0.001					< 0.001		
		Nov-13			< 0.001				< 0.001					< 0.001		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
		Oct-15		< 0.0100	< 0.000331	< 0.000275 UJ	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384		
	MW-116	Feb-13			< 0.001				< 0.001					< 0.001		
		Nov-13			< 0.001				< 0.001					< 0.001		
		Nov-13	FD		< 0.001				< 0.001					< 0.001		
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050		
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045 J4	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038		
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380		
Oct-15		< 0.0100	< 0.000331	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384				

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Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
TEL	MW-49	Apr-13		< 0.010	0.24	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.007
		Apr-13	FD	< 0.010	0.26	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0064
		Apr-13		< 0.010	0.24	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.007
		Oct-13		< 0.010	0.34	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0094
		Apr-14		< 0.0020 B	0.22	0.0022 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.00090 J	< 0.0010	0.0043 J
		Nov-14		< 0.02	0.17	0.0035	< 0.00076	< 0.00091	< 0.00065	< 0.00055	< 0.00052	0.00095 J	< 0.0020	0.0036
		Apr-15		< 0.0100	0.077	0.00106 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	0.000537 J	< 0.00100 J	0.00274
		Oct-15		< 0.0100	0.179	< 0.000275 UB	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.000770 J	< 0.00100	0.00457
	TEL-1	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020 B	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020 B	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0021 J	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	0.0019	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	0.00047 J
		Apr-15		0.0104 J	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
		Oct-15		< 0.0100	0.000378 J	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	TEL-2	Apr-13		< 0.010	1.5	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014
		Oct-13		< 0.010	1.3	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.012
		Apr-14		0.0071 J	1.2	0.0039 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0055	< 0.0010	0.015
		Nov-14		< 0.1	0.87	< 0.0028	< 0.0038	< 0.0045	< 0.0032	< 0.0028	< 0.0026	0.0043 J	< 0.01	0.0099 J
		Apr-15		< 0.2	0.905	0.00723 J	< 0.00760	< 0.00910	< 0.00650	< 0.00550	< 0.00520	< 0.00700	< 0.0200 J	0.0119 J
		Oct-15		< 0.0500	0.535	0.00194 J	< 0.00190	< 0.00226	< 0.00162	< 0.00138	< 0.00130	0.00397 J	< 0.00500	0.00577
	TEL-3	Apr-13		< 0.010	0.0084	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	0.032	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020 B	0.0092	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0015 J	< 0.0010	< 0.00050
		Nov-14		< 0.01	0.023	0.0047	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	0.00088 J	< 0.0010	0.00068 J
		Apr-15		< 0.1	0.0206	0.00471 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	< 0.00380
		Oct-15		< 0.0100	0.0385	0.00367	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.00128	< 0.00100	0.000880 J
	TEL-4	Apr-13		< 0.010	0.2	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		0.014	0.43	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020 B	0.37	0.0030 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0029 J	< 0.0010	0.0035 J
		Nov-14		< 0.2	1.2	0.042	< 0.0076	< 0.0091	< 0.0065	< 0.0055	< 0.0052	< 0.0070	< 0.02	0.0087 J
		Nov-14	FD	< 0.2	1.2	0.038	< 0.0076	< 0.0091	< 0.0065	< 0.0055	< 0.0052	< 0.0070	< 0.02	0.0085 J
		Apr-15		0.243 J	0.171	0.00333 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	< 0.00380
		Apr-15	FD	0.216 J	0.155	0.00471 J	< 0.00380	< 0.00450	< 0.00320	< 0.00280	< 0.00260	< 0.00350	< 0.0100	< 0.00380
		Oct-15		< 0.0100	0.637	< 0.000275 UB	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	0.00179	< 0.00100	0.00655
		Oct-15	FD	< 0.1	0.657	0.00858 J	< 0.00379	< 0.00453	< 0.00324	< 0.00276	< 0.00260	< 0.00350	< 0.0100	0.00756 J

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										
				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
TMD	MW-8	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-16	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.00033	0.000446 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380
	MW-20	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-21	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.00033	0.0011	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380
		Oct-15		< 0.0100	0.000613 J	< 0.000275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	MW-25	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.00033	0.000423 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380
	MW-26	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-27	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-46R	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	0.00086 J
		Nov-14		< 0.01	< 0.00033	< 0.00028 J	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450 J	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-68	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-71	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	MW-89	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.00033	0.000752 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										
Analyte:				Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cymene	Dichloromethane	Ethylbenzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				1.41E+01	5.00E-03	8.10E-01	5.00E-03	2.09E+01	8.00E-02	2.03E-02	7.00E-02	---	5.00E-03	7.00E-01
CGWSL Source:				TMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL	NMED TW	USEPA MCL		USEPA MCL	USEPA MCL
Area	Location	Date	Dup											
TMD	NP-1	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Oct-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Nov-14		< 0.01	< 0.00033	< 0.00028	< 0.00038	< 0.00045	< 0.00032	< 0.00028	< 0.00026	< 0.00035	< 0.0010	< 0.00038
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380
		Oct-15		< 0.0100	< 0.000331	< 0.00275	< 0.000379	< 0.000453	< 0.000324	< 0.000276	< 0.000260	< 0.000350	< 0.00100	< 0.000384
	NP-2	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-6	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-15		< 0.0100	< 0.000330	0.00376	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100 UJ	< 0.000380
Upgradient	UG-1	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	UG-2	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-13	FD	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	0.000348 J	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380
	UG-3R	Apr-13		< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		Apr-14		< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-14	FD	< 0.0020	< 0.00060	< 0.00090	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0010	< 0.00050
		Apr-15		< 0.0100	< 0.000330	< 0.000280	< 0.000380	< 0.000450	< 0.000320	< 0.000280	< 0.000260	< 0.000350	< 0.00100	< 0.000380

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
Crossgradient	KWB-13	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500 H
		Apr-15		< 0.000330	0.00254	< 0.000370	0.00317 J	< 0.000360	0.000373 J	< 0.000340	< 0.000310	< 0.000780	0.00254 J	< 0.00180
	MW-17	Apr-14												
	NP-5	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	RA-3156	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
	MW-136	Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
EP	MW-1R	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-2A	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-3	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.00034 J	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	0.00046 J	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.00247	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	0.00199	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-4A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.0026	< 0.00072	0.00044 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.00159	0.00227	0.000461 J	< 0.00100	< 0.000360	< 0.000350	0.000658 J	< 0.000310	< 0.000780	0.00293 J	
		Oct-15		0.00613	0.00237	0.000641 J	< 0.00100	< 0.000361	0.000436 J	< 0.000341	< 0.000307	< 0.000780	0.00237 J	
	MW-4B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		0.000845 J	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-5A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0032 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.00081 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00138	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00174	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-5B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	0.00148	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
EP	MW-5C	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	0.000507 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-6A	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	0.0016 J	< 0.00050	< 0.00050	0.0016 J	
		Apr-15		0.000440 J	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	0.000920 J	< 0.000310	< 0.000780	< 0.00110	
	MW-6B	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Mar-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-7A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0018 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.002	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	< 0.00033	< 0.00072	0.0025	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00194	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	0.00185	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00175	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	< 0.000326	< 0.000719	0.00174	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-7B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-10	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0020 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.0018	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00195	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00201	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-11A	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14												
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15												
	MW-11B	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-12	Apr-14												
	MW-13	Apr-14												
	MW-15	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		0.000387 J	< 0.000720	0.000809 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-18A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	MW-18B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
EP	MW-22A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0055	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.008	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	< 0.00033	< 0.00072	0.0099	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00557	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	0.00733	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00928	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	< 0.000326	< 0.000719	0.00967	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-22B	Apr-13		< 0.0050	< 0.010	0.0065	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	0.00634	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
	MW-70	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-72	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-73	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0016 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	0.0029	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-74	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.00053 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.000826 J	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-75	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0047 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.012	< 0.0036	0.0028 J	< 0.0050	< 0.0018	< 0.0017	< 0.0017	< 0.0015	< 0.0039	< 0.0053	
		Apr-15		0.00731 J	< 0.00720	0.00935 J	< 0.0100	< 0.00360	< 0.00350	< 0.00340	< 0.00310	< 0.00780	< 0.0110	
		Oct-15		0.0101	< 0.000719	0.00463	< 0.00100	< 0.000361	0.00116	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-76	Mar-13		0.013	< 0.010	0.0059	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0037 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.02	< 0.0036	0.013	< 0.0050	< 0.0018	< 0.0017	< 0.0017	< 0.0015	< 0.0039	< 0.0053	
		Apr-15		0.0161	< 0.000720	0.0122	< 0.00100	< 0.000360	0.000534 J	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.023	< 0.000719	0.00839	< 0.00100	< 0.000361	0.000663 J	< 0.000341	< 0.000307	< 0.000780	< 0.00106	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
EP	MW-77	Mar-13		< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.075	< 0.0200
		Oct-13		< 0.0050	< 0.010	0.0064	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13	FD	< 0.0050	< 0.010	0.0061	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	0.0027 J	0.0069	< 0.00070	< 0.0010	0.0028 J	< 0.00050	< 0.00050	0.0011 J	0.0027 J	
		Nov-14		0.031	0.0066 J	0.0091	< 0.0050	< 0.0018	0.022	0.0036 J	< 0.0015	0.0073 J	0.01 J	
		Apr-15		0.0274	0.0043	0.0131	< 0.00100	< 0.000360	0.0108	0.00101	< 0.000310	0.00216 J	0.00531	
		Oct-15		0.0291	0.00476	0.00722	< 0.00100	0.000743 J	0.00989	0.00112	< 0.000307	0.00386 J	0.00589	
	MW-78	Mar-13		< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.075	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	0.0018 J	0.0021 J	< 0.00050	0.0014 J	0.0021 J	
		Apr-15		0.00348	0.00146	0.000629 J	< 0.00100	< 0.000360	0.0039	0.00356	< 0.000310	0.00385 J	0.00502	
	MW-79	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-80	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-81	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Mar-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-82	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-83	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.0028	< 0.00072	< 0.00037	< 0.0010	< 0.00036	0.0016	0.00087 J	< 0.00031	0.0011 J	< 0.0011	
		Apr-15		0.00159	< 0.000720	< 0.000370	< 0.00100	< 0.000360	0.000534 J	0.000607 J	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.00192	< 0.000719	< 0.000367	< 0.00100	< 0.000361	0.000461 J	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-84	Mar-13		< 0.0050	< 0.010	0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0020 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.00052 J	< 0.00072	0.0025	< 0.0010	< 0.00036	< 0.00035	0.00055 J	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.000575 J	< 0.000720	0.00279	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00125	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-87	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.000569 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.000696 J	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										Cyanide
				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
EP	MW-88	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-120	Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-121	Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-122	Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-123	Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0014 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.0017	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00124	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00126	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-124	Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
Nov-14			< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011		
Apr-15			< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110		
Oct-15			< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106		
OCD-1R	Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015		
	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015		
	Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011		
	Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110		
	Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106		
OCD-2A	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015		
	Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015		
	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015		
	Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011		
	Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110		
	Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106		

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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
EP	OCD-3	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	OCD-4	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	OCD-5	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	OCD-6	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	OCD-7AR	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0015 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	0.0018 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.0022	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00196	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00202	< 0.001	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.00078	< 0.00106	
	OCD-7B	Mar-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	OCD-8A	Apr-13		< 0.0050	< 0.010	0.0056	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	0.0044 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-14	FD	< 0.00050	< 0.00060	0.0047 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	0.004	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	0.00498	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	0.0051	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	OCD-8B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	0.00155	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
Field E of Refinery	KWB-1A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	KWB-1C	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	KWB-7	Apr-13		< 0.0050	< 0.010	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-14		0.042	0.036	0.013	0.03 J	0.0037 J	0.048	0.015	< 0.0031	< 0.0078	0.051	< 0.0018
		Apr-15		0.0338	0.00342	0.0225	0.012	0.00299	0.0317	0.00377	< 0.000310	0.00213 J	0.00718	< 0.00180 J
		Oct-15		0.0223	0.000839 J	0.00677	0.00225 J	0.00143	0.0221	0.000608 J	< 0.000307	< 0.000780	0.00145 J	< 0.00180
	KWB-10R	Nov-14		0.04	0.9	5.2	0.19	0.011 J	0.062	0.32	< 0.0077	0.18	1.2	
		Apr-15		0.0484	1.04	3.87	0.138	0.0113	0.069	0.343	< 0.00310	0.141	1.38	
		Oct-15		0.0478	0.828	4.66	0.186	0.01	0.0699	0.254	< 0.000307	0.124	1.08	
	KWB-11A	Apr-13		< 0.0050	< 0.010	0.0075	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-14		0.0029	0.0017 J	0.0012	0.015	0.00094 J	< 0.00035	0.00076 J	< 0.00031	< 0.00078	0.0025 J	< 0.0018
		Nov-14	FD	0.0024	0.0015 J	0.0015	0.019	0.00092 J	< 0.00035	0.00068 J	< 0.00031	< 0.00078	0.0022 J	< 0.0018
		Apr-15		< 0.000330	0.00188	0.00648	0.0233	< 0.000360	< 0.000350	0.000869 J	< 0.000310 UJ	< 0.000780	0.00275 J	< 0.00180 UJ
		Oct-15		0.00301	0.0013	0.00434	0.0165	0.00126	< 0.000349	0.000511 J	< 0.000307	< 0.000780	0.00181 J	< 0.00180
	KWB-11B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		0.031	0.0043 J	< 0.00060	0.011	0.017	0.046	< 0.00050	< 0.00050	< 0.00050	0.0043 J	< 0.00500 H
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	0.00121	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180 J
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	KWB-12A	Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Nov-14	FD	< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Apr-15	FD	< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	KWB-12B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
		Oct-15	FD	< 0.000326	0.00157	< 0.000367	< 0.00100	< 0.000361	< 0.000349	0.000692 J	< 0.000307	< 0.000780	0.00226 J	< 0.00180
	KWB-P4	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
Field E of Refinery	MW-57	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0010 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	0.00141	< 0.000370	0.00156 J	< 0.000360	< 0.000350	0.000561 J	< 0.000310	< 0.000780	0.00197 J	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-58	Oct-13		< 0.050	0.11	0.37	0.067	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15	< 0.0200
		Nov-14		0.066	1.6	< 0.0092	0.48	< 0.0090	0.1	0.076	< 0.0077	< 0.02	1.6	< 0.0018
		Apr-15		0.0732	2.08	0.0187	0.318	0.00921 J	0.112	0.083	< 0.00310	0.0174 J	2.16	< 0.00180
		Oct-15		0.0720 J	2.12	< 0.0367	0.354 J	< 0.0361	0.125	0.0603 J	< 0.0307	< 0.0780	2.18	< 0.00180
	MW-111	Apr-13		< 0.0050	< 0.010	2.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	1.6	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0013 J	0.0046 J	2	0.0016 J	< 0.0010	0.00082 J	0.0011 J	< 0.00050	0.0011 J	0.0057 J	
		Nov-14		0.0024	0.022	1.6 E	0.0064 J4	< 0.00036	0.0022	0.0052	< 0.00031	0.0016 J	0.027	
		Apr-15		0.000607 J	0.00723	< 0.000370	0.00294 J	< 0.000360	0.000827 J	0.00158	< 0.000310	< 0.000780	0.00881	
		Oct-15		0.000862 J	0.00113	1.32	0.00645	< 0.000361	0.000839 J	< 0.000341	< 0.000307	< 0.000780	0.00113 J	
	MW-112	Nov-14		0.057	1.4	1	0.2	< 0.0090	0.1	0.6	< 0.0077	0.73	2	
	MW-113	Apr-13		< 0.0050	< 0.010	0.024	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	0.26	0.02	< 0.0050	< 0.0050	< 0.0050	0.033	< 0.0050	0.07	0.29	
		Apr-14		0.013	0.82	0.01	< 0.00070	< 0.0010	0.011	0.090 J	< 0.00050	0.064	0.91	
		Nov-14		0.0097	0.086	0.02	0.048 J4	0.00081 J	0.0033	0.016	< 0.00031	0.0046 J	0.1	
		Nov-14	FD	0.0097 J	0.085	0.019	0.032 J	< 0.0036	< 0.0035	0.015	< 0.0031	< 0.0078	0.1	
		Apr-15		< 0.000330	< 0.000720	0.0178	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	0.0158	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.0158	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	< 0.000326	0.000723 J	0.0176	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-125	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-126A	Apr-14		< 0.00050	0.0035 J	< 0.00060	0.0013 J	< 0.0010	< 0.00050	0.0011 J	< 0.00050	0.0022 J	0.0045 J	
		Nov-14		0.016	< 0.00072	< 0.00037	< 0.0010	< 0.00036	0.0032	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.0208	0.0103	< 0.000367	< 0.00100	< 0.000361	0.0104	< 0.000341	< 0.000307	0.000858 J	0.0103	
	MW-126B	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-127	Apr-14		0.049	0.54	1.4	0.14	0.013	0.081	0.33	0.011	2.4	0.87	
		Nov-14		0.012	0.082	0.76	0.04	0.0013	0.02	0.068	< 0.00031	0.15	0.15	
		Apr-15		0.0213	0.153	0.868	0.0658	0.00251	0.0335	0.142	< 0.000310	0.183	0.296	
		Oct-15		0.0183 J	0.0856	0.73	0.0415 J	< 0.00722	0.0305	0.0552	< 0.00614	0.216	0.141	

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Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
Field E of Refinery	MW-128	Apr-14		0.0063	0.014	1.3	0.012	0.0029 J	0.01	< 0.00050	< 0.00050	0.0019 J	0.014 J	
		Nov-14		0.0023	0.0055	0.95 E	0.0061	< 0.00036	0.0032	< 0.00034	< 0.00031	0.00092 J	0.0055	
		Apr-15		0.0031	0.00326	1.6	0.00346 J	0.000372 J	0.00369	< 0.000340	< 0.000310	0.000928 J	0.00326	
		Oct-15		< 0.00652	< 0.0144	0.86	< 0.0200	< 0.00722	< 0.00698	< 0.00682	< 0.00614	< 0.0156	< 0.0212	
	MW-129	Nov-14		0.0044 J	0.043	5.4 E	< 0.01	< 0.0036	0.0048 J	0.016	< 0.0031	0.071	0.059	
		Apr-15		0.00198	0.00245	7.04	0.00407 J	0.000458 J	0.000956 J	0.00112	< 0.000310	< 0.000780	0.00357	
		Oct-15		< 0.0326	< 0.0719	5.79	< 0.1	< 0.0361	< 0.0349	< 0.0341	< 0.0307	< 0.0780	< 0.106	
	MW-130	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.0012	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.000510 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.000449 J	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-131	Apr-14		0.036	0.47	5.3	0.058	0.031	0.084	0.18	< 0.00050	1.4	0.65	
		Nov-14		0.016	0.12	5.6 E	0.043 J	0.0056 J	0.03	0.065	< 0.0031	0.31	0.18	
		Apr-15		0.0162	0.084	5.23	0.0468	0.00368	0.028	0.0606	< 0.000310	0.215	0.145	
		Oct-15		0.022	0.0615	4.54	0.0589	0.00375	0.037	0.0243	< 0.000307	0.0522	0.0859	
	MW-133	Nov-14		0.057 J	0.18 J	5.6	< 0.1	< 0.036	0.084 J	0.038 J	< 0.031	0.1 J	0.22 J	
		Apr-15		< 0.0330	0.108	6.67	< 0.1	< 0.0360	0.0451 J	< 0.0340	< 0.0310	< 0.0780	< 0.11	
	MW-134	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-135	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.000829 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.000608 J	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	RA-4196	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0026 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	0.00173	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00394	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	RA-4798	Apr-13		< 0.0050	< 0.010	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Nov-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.01	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	0.0027 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.0086	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.0163	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00858	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	RW-18	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
Field E of Refinery	RW-20	Apr-15		0.0456	1.3	0.209	0.183	0.00846 J	0.098	0.059	< 0.00310	0.211	1.35	
	RW-22	Apr-15		0.0525	0.85	0.178	0.164	0.00856 J	0.103	0.0952	< 0.00310	0.216	0.945	
N Refinery	MW-23	Apr-13		0.13	< 0.10	< 0.050	0.2	< 0.050	0.17	< 0.050	< 0.050	< 0.050	< 0.15	
		Oct-13		0.087	< 0.10	< 0.050	0.16	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.15	
		Apr-14		0.097 J	0.035 J	< 0.012	0.2	< 0.020	0.15	< 0.010	< 0.010	< 0.010	0.035 J	
		Nov-14		0.048 J	0.9	0.019 J	0.12 J	< 0.018	0.068	0.17	< 0.015	0.52	1.1	
		Apr-15		0.0652	1.19	0.0253	0.15 J	< 0.00900	0.0952	0.181	< 0.00770	0.431	1.37	
		Oct-15		0.121	0.00568	0.02	0.213 J	0.0134	0.181	0.00237	< 0.000307	0.00501	0.00805	
	MW-29	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.002	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.00109	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.000961 J	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-39	Oct-13		0.032	0.045	< 0.0050	< 0.0050	0.0053	0.04	0.041	< 0.0050	0.0093	0.086	
		Apr-15		0.00675	0.00121	< 0.000370	< 0.00100	< 0.000360	< 0.000350	0.00632	< 0.000310	0.00137 J	0.00753	
		Oct-15		0.006	0.00115	< 0.000367	0.00583	< 0.000361	< 0.000349	0.0053	< 0.000307	0.00108 J	0.00645	
	MW-40	Apr-13		0.072	< 0.010	< 0.0050	< 0.0050	< 0.0050	0.015	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.047	0.0056 J	< 0.00060	0.0028 J	< 0.0010	0.0062	< 0.00050	< 0.00050	< 0.00050	0.0056 J	
		Apr-15		0.0308	0.00606	< 0.000370	< 0.00100	< 0.000360	0.00319	< 0.000340	< 0.000310	< 0.000780	0.00606	
	MW-41	Apr-13		0.014	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.014	< 0.00060	0.0036 J	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		0.00844	< 0.000720	0.0044	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-42	Apr-13		0.042	0.16	0.028	0.0054	< 0.0050	0.042	< 0.0050	< 0.0050	< 0.0050	0.16	
		Oct-13		0.041	0.22	0.021	< 0.0050	< 0.0050	0.042	< 0.0050	< 0.0050	< 0.0050	0.22	
		Apr-14		0.039	0.11	0.022	0.0043 J	< 0.0010	0.033	0.0011 J	< 0.00050	0.0023 J	0.11	
		Apr-15		0.0326	0.0484	0.0145	< 0.0100	< 0.00360	0.0205	< 0.00340	< 0.00310	< 0.00780	0.0484	
	MW-43	Apr-13		0.059	0.093	0.011	< 0.0050	0.0073	0.066	0.0096	< 0.0050	0.018	0.1	< 0.0200
		Oct-13		0.069	0.35	0.0077	0.0099	0.008	0.092	0.015	< 0.0050	0.044	0.37	0.0321
		Oct-13	FD	0.071	0.36	0.0078	0.0096	0.0083	0.094	0.015	< 0.0050	0.045	0.38	< 0.0200
		Apr-14		0.052	0.14	0.014	0.005	0.0077	0.054	0.014	< 0.00050	0.029	0.16	< 0.0500
		Nov-14		0.05	0.16	0.011	< 0.01	< 0.0036	0.046	0.012	< 0.0031	0.03 J	0.17	0.0025 J
		Apr-15		0.0617	0.278	0.0162	< 0.0100 J	0.00396 J	0.0702	0.0227	< 0.00310	0.0538	0.3	< 0.00180
		Oct-15		0.0642	1.15	0.0274	0.212	0.00458 J	0.0949	0.333	< 0.00307	0.808	1.48	0.081
	MW-59	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0061	< 0.00060	< 0.00060	< 0.00070	< 0.0010	0.00066 J	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		0.00736	< 0.000720	< 0.000370	< 0.00100	< 0.000360	0.000389 J	< 0.000340	< 0.000310	< 0.000780	< 0.00110	

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Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
N Refinery	MW-60	Apr-13		0.025	0.019	< 0.0050	< 0.0050	< 0.0050	0.0065	< 0.0050	< 0.0050	< 0.0050	0.019	< 0.0200
		Apr-13	FD	0.024	0.019	< 0.0050	< 0.0050	< 0.0050	0.0066	< 0.0050	< 0.0050	< 0.0050	0.019	< 0.0200
		Oct-13		0.018	< 0.010	< 0.0050	< 0.0050	< 0.0050	0.0064	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13	FD	0.019	0.012	< 0.0050	< 0.0050	< 0.0050	0.0068	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200 J
		Apr-14		0.018	0.0063 J	< 0.00060	0.0041 J	< 0.0010	0.0041 J	< 0.00050	< 0.00050	< 0.00050	0.0063 J	0.140 J
		Nov-14		0.013	< 0.00072	< 0.00037	< 0.0010	< 0.00036	0.00092 J	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		0.0148 J	0.0028	< 0.000370	< 0.00100	< 0.000360	0.00228	< 0.000340	< 0.000310	< 0.000780	0.00280 J	< 0.00180
		Apr-15	FD	0.00798 J	0.00163	< 0.000370	< 0.00100	< 0.000360	0.00113	< 0.000340	< 0.000310	< 0.000780	0.00163 J	< 0.00180
		Oct-15		0.0182	0.00176	< 0.000367	< 0.00100	< 0.000361	0.0012	< 0.000341	< 0.000307	< 0.000780	0.00176 J	< 0.00180
		Oct-15	FD	0.0179	0.00181	< 0.000367	< 0.00100	< 0.000361	0.00128	< 0.000341	< 0.000307	< 0.000780	0.00181 J	< 0.00180
	MW-61	Apr-13		0.074	0.42	< 0.025	0.14	< 0.025	0.075	< 0.025	< 0.025	0.095	0.43	
		Oct-13		0.062	0.41	< 0.025	0.12	< 0.025	0.074	< 0.025	< 0.025	0.096	0.41	
		Apr-14		0.065	0.41	< 0.0030	0.14	0.0059 J	0.083	0.0041 J	< 0.0025	0.093	0.42	
		Nov-14		0.11	1.2	< 0.018	0.14 J	< 0.018	0.16	< 0.017	< 0.015	< 0.039	1.2	
		Apr-15		0.122	1.68	< 0.00370	0.176 J	0.00782 J	0.201	0.00784 J	< 0.00310	0.0130 J	1.69	
		Oct-15		0.107	0.369	< 0.00367	0.0668	0.00529 J	0.137	0.00496 J	< 0.00307	0.0379 J	0.374	
	MW-62	Apr-13		0.099	0.17	0.047	0.016	0.0095	0.13	< 0.0050	< 0.0050	< 0.0050	0.17	
		Oct-13		0.076	1.9	< 0.0050	0.16	0.015	0.13	< 0.050	< 0.0050	0.0079	1.9	
		Apr-14		0.07	0.72	0.0022 J	0.11	0.013	0.11	< 0.0050	< 0.00050	0.0056	0.72	
		Nov-14		0.14	0.08 J	0.025 J	0.42 J4	< 0.018	0.21	< 0.017	< 0.015	< 0.039	0.08 J	
		Apr-15		0.112	0.0405	0.0151	0.158 J	0.00986 J	0.167	< 0.00340	< 0.00310	< 0.00780	0.0405	
		Oct-15		0.138	1.72	< 0.00734	0.186	0.00854 J	0.244	0.00886 J	< 0.00614	< 0.0156	1.73	
	MW-67	Oct-13		0.054	0.032	0.51	0.0088	0.011	0.046	< 0.0050	< 0.0050	< 0.0050	0.032	< 0.0200
		Nov-14		0.027	0.0084 J	0.46	0.0053 J	0.0029 J	0.019	< 0.0017	< 0.0015	< 0.0039	0.0084 J	< 0.0018
		Apr-15		0.0376	0.00291	0.869	< 0.00100	0.00452	0.0234	< 0.000340	< 0.000310	0.00260 J	0.00291 J	< 0.00180
		Oct-15		0.0301	< 0.0144	0.924	< 0.0200	< 0.00722	< 0.00698	< 0.00682	< 0.00614	< 0.0156	< 0.0212	< 0.00180
	MW-90	Apr-13		0.037	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		0.027	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.027	< 0.00060	< 0.00060	0.0025 J	< 0.0010	0.0026 J	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.012	< 0.00072	< 0.00037	0.0049 JJ4	< 0.00036	0.0038	0.00037 J	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.0185	< 0.000720	0.00575	0.00178 J	< 0.000360	0.00291	< 0.000340	< 0.000310	0.00194 J	< 0.00110	
		Oct-15		0.0095	< 0.000719	< 0.000367	< 0.00100	< 0.000361	0.000834 J	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-91	Oct-13		0.13	0.47	< 0.0050	0.055	0.015	0.14	< 0.050	< 0.0050	0.023	0.47	
		Oct-13	FD	0.13	0.5	< 0.0050	0.059	0.015	0.14	< 0.050	< 0.0050	0.023	0.5	
		Apr-14		0.1	0.54	< 0.0030	0.062	0.014 J	0.11	0.036	< 0.0025	0.41	0.58	
		Nov-14		0.1 J	0.54	< 0.092	< 0.25	< 0.09	0.11 J	< 0.085	< 0.077	0.92 J	0.54 J	
		Apr-15		0.0876	0.702	< 0.00370	0.0490 J	< 0.00360	0.0882	0.15	< 0.00310	1.91	0.852	
		Oct-15		0.108	0.753	< 0.00918	0.0884 J	< 0.00902	0.119	0.18	< 0.00768	0.652	0.933	
	MW-93	Apr-13		0.069	0.57	< 0.0050	0.14	0.011	0.1	< 0.12	< 0.0050	0.031	0.6	
		Oct-13		0.068	0.54	< 0.0050	0.14	0.015	0.1	< 0.050	< 0.0050	0.031	0.56	
		Apr-14		0.068	0.6	0.0059 J	0.12	0.024 J	0.11	0.015 J	< 0.0025	0.019 J	0.61	
		Nov-14		0.05 J	0.45	< 0.018	0.17 JJ4	< 0.018	0.074	< 0.017	< 0.015	< 0.039	0.45	
		Apr-15		0.0425	0.31	< 0.00370	0.0554 J	0.00461 J	0.0625	0.00938 J	< 0.00310	0.00961 J	0.319	
		Oct-15		0.0518	0.483	< 0.00367	0.1	0.00496 J	0.0743	0.011	< 0.00307	0.0170 J	0.494	

Table 4 - Summary of Groundwater Analytical Data

2015 Annual Groundwater Report

Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
N Refinery	MW-94	Nov-14		0.084	0.31	1.3	0.22	0.04	0.13	0.4	< 0.0061	0.7	0.71	
		Oct-15		0.0646	0.214	0.798	0.202	0.0219	0.0923	0.36	< 0.00307	0.553	0.574	
	MW-95	Apr-13		0.0053	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0058	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		0.007	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-96	Apr-13		0.073	< 0.10	28	< 0.050	< 0.050	0.064	< 0.050	< 0.050	< 0.050	< 0.15	
		Oct-13		0.067	< 0.10	29	< 0.050	< 0.050	0.066	< 0.050	< 0.050	< 0.050	< 0.15	
		Apr-14		0.076 J	0.037 J	35	0.065 J	< 0.025	0.070 J	< 0.012	< 0.012	0.015 J	< 0.038	
		Nov-14		0.055	< 0.018	28 E	< 0.025	< 0.0090	0.044	< 0.0085	< 0.0077	< 0.02	< 0.026	
		Apr-15		0.055	0.00438	35	0.00126 J	0.00185	0.0395	0.0011	< 0.000310	0.00156 J	0.00547	
		Oct-15		< 0.163	< 0.36	39.2	< 0.5	< 0.18	< 0.174	< 0.17	< 0.154	< 0.39	< 0.53	
	MW-98	Apr-13		0.098	1.9	< 0.050	0.24	< 0.050	0.11	< 0.050	< 0.050	0.29	1.9	
		Oct-13		0.078	1.9	< 0.050	0.22	< 0.050	0.11	< 0.050	< 0.050	0.32	1.9	
		Apr-14		0.085	1.9	< 0.0060	0.23	0.020 J	0.11	0.031 J	< 0.0050	0.3	1.9	
		Apr-14	FD	0.078	2	< 0.0060	0.21	< 0.010	0.11	0.033 J	< 0.0050	0.32	2	
		Nov-14		< 0.082	1.6	< 0.092	0.45 JJ4	< 0.09	0.097 J	< 0.085	< 0.077	0.28 J	1.6	
		Apr-15		0.0716	1.7	< 0.00920	0.174 J	< 0.00900	0.0968	0.0358	< 0.00770	0.283	1.74	
		Oct-15		0.0781	1.68	< 0.00918	0.237	< 0.00902	0.0981	0.0316	< 0.00768	0.268	1.71	
	MW-137	Oct-15		0.0997 J	0.681	0.0606 J	0.215 J	< 0.0361	0.143	0.48	< 0.0307	2.16	1.16	0.144
	MW-138	Oct-15		0.0684	0.0339	0.0926	0.0894 J	0.00966 J	0.0973	< 0.00682	< 0.00614	< 0.0156	0.0339 J	< 0.00180
	RW-1	Apr-15		< 0.0160	0.0365 J	< 0.0180	< 0.0500	< 0.0180	0.0175 J	< 0.0170	< 0.0150	< 0.0390	< 0.0530	
	RW-2	Apr-15		0.0551	0.445	< 0.00370	0.157 J	0.0106	0.0813	0.0853	< 0.00310	0.115	0.53	
	RW-7	Apr-15		0.0362	0.035	0.0122	0.0112	0.0066	0.0441	0.00176	< 0.000310	0.00396 J	0.0367	
	RW-8	Apr-15		0.0204	< 0.00720	2.41	< 0.0100	< 0.00360	0.00788 J	< 0.00340	< 0.00310	< 0.00780	< 0.0110	
	RW-9	Apr-13		0.13	0.015	< 0.0050	< 0.0050	0.009	0.086	< 0.0050	< 0.0050	< 0.0050	0.015	
		Apr-14		0.1	0.024	0.0034 J	0.0075	0.0099	0.035	< 0.00050	< 0.00050	0.0019 J	0.024	
		Apr-15		0.0643	< 0.0360	< 0.0180	< 0.0500	< 0.0180	0.0179 J	< 0.0170	< 0.0150	< 0.0390	< 0.0530	
	RW-10	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	RW-16	Apr-13		< 0.0050	< 0.010	0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.00087 J	< 0.00060	0.013	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	0.00084 J	< 0.00060	0.012	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	0.019	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	RW-17	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0031 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	0.00772	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
N RO Reject Field	MW-117	Feb-13					< 0.0002						< 0.001	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	0.00135	< 0.000370	0.00150 J	< 0.000360	< 0.000350	0.000942 J	< 0.000310	< 0.000780	0.00229 J	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
N RO Reject Field	MW-118	Feb-13					< 0.0002						0.0047	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-119	Feb-13					< 0.0002						0.0037	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
NCL	MW-18	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
	MW-45	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	0.0043 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	0.0048	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	0.00356	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	0.00268	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180
	MW-53	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-54A	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-54B	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-55	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Nov-14		< 0.00033	< 0.00072	0.00049 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	0.00433	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	< 0.00180

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Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
NCL	MW-56	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0057	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.004	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.0129	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00975	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-108	Apr-13		0.034	0.048	< 0.0050	< 0.0050	< 0.0050	0.027	< 0.0050	< 0.0050	< 0.0050	0.05	
		Oct-13		0.022	0.049	< 0.0050	0.011	< 0.0050	0.021	< 0.0050	< 0.0050	0.007	0.051	
		Apr-14		0.023	0.051	< 0.00060	0.0092	0.0029 J	0.021	0.0028 J	< 0.00050	0.0065	0.054	
		Nov-14		0.024	0.056	< 0.0018	0.012 J	0.0027 J	0.025	0.0031 J	< 0.0015	0.0078 J	0.059	
		Apr-15		0.033	0.0665	< 0.00370	0.0113 J	< 0.00360	0.0311	0.00412 J	< 0.00310	0.00956 J	0.0706	
		Oct-15		0.0345	0.081	< 0.00367	0.0166 J	< 0.00361	0.0346	0.00444 J	< 0.00307	0.00978 J	0.0855	
	NCL-31	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.00055 J	< 0.00060	0.00060 J	0.0021 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.0087	< 0.00072	0.00078 J	< 0.0010	< 0.00036	0.00041 J	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.000622 J	< 0.000720	0.000497 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.00689	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	NCL-32	Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.000476 J	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	NCL-33	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.000806 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780 J	< 0.00106	
	NCL-34A	Oct-13		0.11	0.2	< 0.0050	0.069	0.019	0.13	< 0.0050	< 0.0050	< 0.0050	0.2	
		Nov-14		0.091	0.1	< 0.0018	< 0.0050	0.0066	0.091	< 0.0017	< 0.0015	< 0.0039	0.1	
		Apr-15		0.0929	0.094	< 0.00730	0.00636	0.00713	0.101	0.00121	< 0.000310	< 0.000780	0.0952	
		Oct-15		0.0851	0.0653	0.00168	< 0.00100	0.00646	0.0857	0.000477 J	< 0.000307	< 0.000780	0.0658	
	NCL-44	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0013 J	< 0.00060	< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.0018	< 0.00072	0.00058 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.000652 J	< 0.000720	0.000410 J	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		0.000446 J	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	

Table 4 - Summary of Groundwater Analytical Data

2015 Annual Groundwater Report

Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
NCL	NCL-49	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Apr-15	FD	< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
		Oct-15	FD	< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
S Refinery	KWB-2R	Nov-14		0.082	0.71	0.034	0.51	0.01 J	0.16	0.031	< 0.0077	0.035 J	0.74	
		Apr-15		0.0698	0.224	0.0186	0.0260 J	0.00730 J	0.119	0.0115	< 0.00310	0.0140 J	0.236	
		Oct-15		0.0921 J	0.448	< 0.0367	< 0.1	< 0.0361	0.169	< 0.0341	< 0.0307	< 0.0780	0.448	
	KWB-5	Oct-13		< 0.050	< 0.10	10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15	
		Nov-14		0.0066 J	< 0.0072	9.9 E	0.023 J	< 0.0036	0.011	< 0.0034	< 0.0031	< 0.0078	< 0.011	
		Apr-15		0.0146	0.0323	< 0.000370	0.0392	0.0022	0.0226	0.00713	< 0.000310	0.013	0.0394	
		Oct-15		0.0161	0.0135	10.7	0.0156	0.00173	0.0276	0.00312	< 0.000307	0.00578	0.0166	
	KWB-6	Nov-14		0.04	0.93	0.16	0.098	< 0.0036	0.058	0.2	< 0.0031	0.53	1.1	
		Apr-15		0.0738	2.71	0.119	0.239	< 0.00900	0.121	0.76	< 0.00770	1.7	3.47	
		Oct-15		< 0.163	1.03	9.07	< 0.5	< 0.18	< 0.174	0.297 J	< 0.154	< 0.39	1.33 J	
	MW-28	Apr-13		0.02	< 0.010	3.9	< 0.0050	< 0.0050	0.019	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		0.022	< 0.010	3.9	< 0.0050	< 0.0050	0.023	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		0.019	0.0080 J	3.6	0.0042 J	0.0013 J	0.02	0.00053 J	< 0.00050	0.0053	0.0086 J	0.0500 J
		Nov-14		0.066	0.22	2	0.06 J	< 0.0090	0.081	< 0.0085	< 0.0077	0.054 J	0.22	< 0.0018
		Apr-15		0.0689 J	0.194	1.33	< 0.1	< 0.0360	0.0744 J	< 0.0340	< 0.0310	< 0.0780	0.194 J	0.0132
		Oct-15		0.0671 J	0.243	1.11	< 0.1	< 0.0361	0.0890 J	< 0.0341	< 0.0307	< 0.0780	0.243 J	0.0108
	MW-48	Nov-14		0.041	0.12	1.1	0.028 J	< 0.0090	0.068	0.01 J	< 0.0077	0.03 J	0.13	
		Apr-15		0.0361	0.143	0.223	0.0245 J	< 0.00360	0.0478	0.00973 J	< 0.00310	0.0146 J	0.153	
		Oct-15		0.0549	0.119	0.832	0.0128 J	0.0065	0.0857	0.00658	< 0.00154	0.0120 J	0.125	
	MW-50	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00219	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326 J	< 0.000719 J	< 0.000367	< 0.00100 J	< 0.000361 J	< 0.000349	< 0.000341	< 0.000307 J	< 0.000780 J	< 0.00106 J	
	MW-52	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500 H
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500 H
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	< 0.0018
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780 J	< 0.00106	< 0.00180

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
S Refinery	MW-65	Nov-14		0.053	0.18	3.4	0.22 J	< 0.018	0.083	0.025 J	< 0.015	< 0.039	0.21	
		Apr-15		0.0578	0.135	3.22	0.239	0.0101	0.085	0.0228	< 0.00310	0.0294 J	0.158	
	MW-66	Apr-13		0.064	< 0.010	2.9	0.081	0.014	0.088	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		0.073	0.022	2.4	0.11	0.017 J	0.11 J	< 0.0050	< 0.0050	0.0092	0.025	< 0.0200
		Oct-13	FD	0.074	0.022	2.5	0.11	0.016	0.11	< 0.0050	< 0.0050	0.0094	0.026	< 0.0200
		Apr-14		0.03	0.0055 J	2.3	0.055	0.0069	0.038	0.0014 J	< 0.00050	0.0027 J	0.0069 J	< 0.00500 B
		Nov-14		0.079	0.1	1.9	0.22 J4	0.01 J	0.12	0.015	< 0.0031	0.052	0.12	< 0.0018
		Apr-15		0.0266 J	0.0668	1.66	0.0617 J	< 0.0180	0.0342 J	< 0.0170	< 0.0150 J	< 0.0390 J	0.0668 J	< 0.00180
		Oct-15		0.0565	0.0281	2.42	0.133	0.007	0.0807	0.0039	< 0.000307	0.00722	0.032	0.00180 J
	MW-99	Nov-14		0.037	0.69	3.4 E	0.044 J	0.0065 J	0.052	0.15	< 0.0031	0.58	0.84	
		Apr-15		0.0295	0.622	0.0799	0.0376 J	< 0.00900	0.0338	0.315	< 0.00770 J	0.149 J	0.937	
		Oct-15		0.0559	0.509	3.96	0.0453 J	0.0104 J	0.0768	0.0953	< 0.00768	0.221	0.604	
	MW-101	Apr-13		0.02	0.025	0.093	< 0.0050	< 0.0050	0.017	< 0.0050	< 0.0050	0.0081	0.025	
		Oct-13		< 0.0050	0.013	0.086	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0074	0.011	< 0.00060	0.0029 J	< 0.0010	0.0032 J	< 0.00050	< 0.00050	0.0038 J	0.011 J	
		Nov-14		0.0078 J	< 0.0072	0.12	0.01 JJ4	< 0.0036	0.0050 J	< 0.0034	< 0.0031	< 0.0078	< 0.011	
		Apr-15		0.00279 J	< 0.00360	0.113	< 0.00500 J	< 0.00180	< 0.00170	< 0.00170	< 0.00150	< 0.00390	< 0.00530	
		Oct-15		< 0.00163	< 0.00360	0.0981	< 0.00500	< 0.00180	< 0.00174	< 0.00170	< 0.00154	< 0.00390	< 0.00530	
	MW-102	Nov-14		0.04 J	1.3	2	0.18 J	< 0.018	0.057	0.54	< 0.015	2	1.8	
		Apr-15		0.0207	0.598	1.88	0.129	< 0.00360	0.0257	0.247	< 0.00310	1.45	0.846	
		Oct-15		0.0583 J	1.06	2.12	0.256 J	< 0.0361	0.0897 J	0.361	< 0.0307	1.2	1.43	
	MW-103	Apr-13		0.02	< 0.010	< 0.0050	0.013	< 0.0050	0.024	< 0.0050	< 0.0050	0.006	< 0.015	
		Apr-14		0.031	0.012	< 0.00060	0.051	0.0061	0.046	0.0045 J	< 0.00050	0.0094	0.017	
		Apr-15		0.0247	0.00819	0.000441 J	0.022	0.00291	0.0357	0.00549	< 0.000310	0.0154	0.0137	
	MW-104	Apr-13		0.075	< 0.010	< 0.0050	< 0.0050	0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		0.051	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.052	< 0.00060	< 0.00060	0.0030 J	< 0.0010	0.0046 J	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	0.052	< 0.00060	< 0.00060	0.0027 J	< 0.0010	0.0043 J	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		0.037	< 0.00072	0.00049 J	0.0018 JJ4	0.00050 J	0.0074	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Nov-14	FD	0.046	< 0.0072	< 0.0037	< 0.01	< 0.0036	0.0097 J	< 0.0034	< 0.0031	< 0.0078	< 0.011	
		Apr-15		0.0432	< 0.000720	0.00138	< 0.00100	< 0.000360	0.00324	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
		Apr-15	FD	0.0441	< 0.000720	0.00135	< 0.00100	< 0.000360	0.00335	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
		Oct-15		0.0449	< 0.00360	0.00189 J	< 0.00500	< 0.00180	0.00458 J	< 0.00170	< 0.00154	< 0.00390	< 0.00530	
		Oct-15	FD	0.0406	0.000722 J	0.00199	0.00132 J	0.000449 J	0.00402	< 0.000341	0.000881 J	< 0.000780	< 0.00106	
	MW-105	Nov-14		< 0.082	0.23 J	< 0.092	< 0.25	< 0.09	< 0.087	< 0.085	< 0.077	< 0.2	< 0.26	
		Apr-15		0.0573	0.205	< 0.00180	0.0623 J	0.00866	0.0639	0.00965	< 0.00150	0.0314	0.214	
		Oct-15		0.0321	0.109	< 0.00367	0.0299 J	0.00651 J	0.0349	< 0.00341	< 0.00307	< 0.00780	0.109	
	MW-106	Apr-13		0.073	0.44	0.062	0.087	< 0.050	0.092	< 0.050	< 0.050	0.17	0.44	
		Oct-13		< 0.050	0.36	0.074	0.058	< 0.050	0.053	< 0.050	< 0.050	0.34	0.37	
		Apr-14		0.036 J	0.29	0.047 J	0.083 J	< 0.020	0.047 J	0.024 J	< 0.010	0.35	0.31	
		Apr-15		0.00691	0.0475	< 0.000370	0.0126	0.000406 J	0.00815	0.00393	< 0.000310	0.042	0.0514	
		Oct-15		< 0.0326	0.217	0.0397 J	0.113 J	< 0.0361	< 0.0349	< 0.0341	< 0.0307	0.216 J	0.217 J	

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Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
S Refinery	MW-107	Apr-13		0.037	0.18	2.3	0.12	< 0.025	0.041	< 0.025	< 0.025	< 0.025	0.18	
		Oct-13		0.028	0.12	1.9	0.1	< 0.025	0.039	< 0.025	< 0.025	< 0.025	0.12	
		Apr-14		0.024 J	0.12	1.6 J	0.11	< 0.010	0.031 J	< 0.0050	< 0.0050	0.017 J	0.12 J	
		Nov-14		0.042	0.12	2.3 E	0.15 J4	< 0.0036	0.057	0.0035 J	< 0.0031	0.02 J	0.12	
		Apr-15		0.0107	0.0146	1.77	0.0157 J	< 0.00360	< 0.00350	< 0.00340	< 0.00310	0.0106 J	0.0146 J	
		Oct-15		0.0454 J	0.0867 J	2.77	< 0.1	< 0.0361	0.0689 J	0.0431 J	< 0.0307	< 0.0780	0.13 J	
	MW-109	Apr-13		0.011	< 0.010	< 0.0050	< 0.0050	< 0.0050	0.0096	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		0.011	< 0.010	< 0.0050	< 0.0050	< 0.0050	0.009	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.011	0.0059 J	< 0.00060	0.0036 J	0.0020 J	0.01	< 0.00050	< 0.00050	0.0045 J	0.0059 J	
		Nov-14		0.028	0.0027 J3	< 0.00037 J3	0.0026 JJ4J5J3	0.0013 J5J3	0.021	0.00036 JJ5J3	< 0.00031 J5J3	0.0057 J3	0.0031 J3J5	
		Apr-15		0.0351	0.0176	< 0.00370	< 0.0100	< 0.00360	0.0297	< 0.00340	< 0.00310	0.0117 J	0.0176 J	
		Oct-15		0.0344	0.0176	< 0.00367	< 0.0100	< 0.00361	0.0305	< 0.00341	< 0.00307	0.0141 J	0.0176 J	
	MW-110	Apr-13		0.013	< 0.010	< 0.0050	0.0053	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.021	0.028	< 0.00060	0.013	0.0021 J	0.02	< 0.00050	< 0.00050	0.0023 J	0.028	
		Nov-14		0.0022	< 0.00072	< 0.00037	0.0017 JJ4	< 0.00036	0.0015	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		0.0331	0.00624	< 0.000370	0.00482 J	0.00231	0.0279	< 0.000340	< 0.000310	0.00352 J	0.00624	
		Oct-15		0.0305	0.0298	< 0.00184	0.00731 J	0.00291 J	0.0347	< 0.00170	< 0.00154	0.00464 J	0.0298	
	RA-313	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	RW-4	Apr-15		0.00966	< 0.000720	0.0902	< 0.00100	0.000393 J	0.00458	< 0.000340	< 0.000310 J	< 0.000780 J	< 0.00110	
	RW-5R	Apr-15		0.0398	1.39	2.15	0.174	0.00606 J	0.0598	0.522	< 0.00310	2.26	1.91	
	RW-6	Apr-15		0.0173	0.102	2.27	0.0602	0.00738 J	0.0237	0.0558	< 0.00310	0.0126 J	0.158	
S RO Reject Field	MW-114	Feb-13					< 0.0002						< 0.001	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	0.0012 JJ4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
S RO Reject Field	MW-115	Feb-13					< 0.0002						< 0.001	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-116	Feb-13					< 0.0002						< 0.001	< 0.02
		Nov-13					< 0.0002						< 0.001	< 0.02
		Nov-13	FD				< 0.0002						< 0.001	< 0.02
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	< 0.000367	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	

Table 4 - Summary of Groundwater Analytical Data
2015 Annual Groundwater Report
Navajo Refinery, Artesia, New Mexico

Analyte Group: Analyte: Units: CGWSL: CGWSL Source:				Volatile Organic Chemicals										Cyanide
				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
TEL	MW-49	Apr-13		0.026	0.043	0.039	< 0.0050	< 0.0050	0.015	< 0.0050	< 0.0050	< 0.0050	0.043	< 0.0200
		Apr-13	FD	0.028	0.044	0.04	< 0.0050	< 0.0050	0.016	< 0.0050	< 0.0050	< 0.0050	0.044	< 0.0200
		Apr-13		0.026	0.043	0.039	< 0.0050	< 0.0050	0.015	< 0.0050	< 0.0050	< 0.0050	0.043	< 0.0200
		Oct-13		0.024	0.066	0.037	0.012	< 0.0050	0.022	< 0.0050	< 0.0050	0.011	0.066	< 0.0200
		Apr-14		0.018	0.034	0.049	0.0054	0.0032 J	0.015	< 0.00050	< 0.00050	0.0040 J	0.034	< 0.00500 B
		Nov-14		0.022	0.026	0.055	0.0031 J	0.0026	0.019	< 0.00068	< 0.00061	0.0029 J	0.026	< 0.0018
		Apr-15		0.014	0.0175	0.0553 J	0.00117 J	0.00116	0.00957	< 0.000340	< 0.000310	< 0.000780	0.0175	< 0.00180
		Oct-15		0.0247	0.038	0.0447	0.00255 J	0.00158	0.0157	< 0.000341	< 0.000307	0.00201 J	0.038	0.00280 J
	TEL-1	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		0.0020 J	< 0.00060	0.0039 J	0.0029 J	< 0.0010	< 0.00050	0.0024 J	< 0.00050	0.0010 J	0.0024 J	
		Apr-14	FD	0.0019 J	< 0.00060	0.0040 J	0.0029 J	< 0.0010	< 0.00050	0.0023 J	< 0.00050	0.0011 J	0.0023 J	
		Nov-14		0.0013	< 0.00072	0.0018	< 0.0010	< 0.00036	< 0.00035	0.0022	< 0.00031	0.00099 J	0.0022 J	
		Apr-15		< 0.000330	< 0.000720	0.00478	< 0.00100	< 0.000360	< 0.000350	0.00214	< 0.000310	< 0.000780	0.00214 J	
		Oct-15		0.000924 J	< 0.000719	0.00245	0.00102 J	< 0.000361	< 0.000349	0.00197	< 0.000307	0.00108 J	0.00197 J	
	TEL-2	Apr-13		0.059	0.26	0.0059	0.04	0.0089	0.069	0.022	< 0.0050	0.068	0.29	
		Oct-13		0.047	0.23	0.0061	0.037	0.0078	0.057	0.018	< 0.0050	0.052	0.25	
		Apr-14		0.05	0.24	0.011	0.023	0.0089	0.064	0.018	< 0.00050	0.043	0.26	
		Nov-14		0.043	0.18	0.012	0.017 J	0.0040 J	0.051	0.016	< 0.0031	0.034 J	0.2	
		Apr-15		0.0407	0.171	0.0113 JJ3	< 0.0200	< 0.00720	0.0462	0.0182 J	< 0.00610	0.0372 J	0.189	
		Oct-15		0.0405	0.146	0.011	0.00630 J	0.00382 J	0.0487	0.0097	< 0.00154	0.0186 J	0.155	
	TEL-3	Apr-13		0.074	0.015	< 0.0050	< 0.0050	< 0.0050	0.013	< 0.0050	< 0.0050	< 0.0050	0.018	
		Oct-13		0.063	0.016	< 0.0050	< 0.0050	< 0.0050	0.013	< 0.0050	< 0.0050	< 0.0050	0.019	
		Apr-14		0.06	0.018	0.0030 J	0.0034 J	< 0.0010	0.013	0.0032 J	< 0.00050	< 0.00050	0.021	
		Nov-14		0.05	0.012	< 0.00037	0.0010 J	0.0016	0.0087	0.0023	< 0.00031	0.0010 J	0.014	
		Apr-15		0.0471	0.00929 J	0.00560 J	< 0.0100	< 0.00360	0.00541 J	< 0.00340	< 0.00310	< 0.00780	< 0.0110	
		Oct-15		0.0605	0.0171	0.000964 J	0.00123 J	0.00133	0.0092	0.00316	< 0.000307	0.00154 J	0.0202	
	TEL-4	Apr-13		0.052	0.058	0.140	< 0.0050	0.007	0.075	< 0.0050	< 0.0050	< 0.0050	0.058	
		Oct-13		0.039	0.054	0.073	< 0.0050	0.0066	0.063	< 0.0050	< 0.0050	< 0.0050	0.055	
		Apr-14		0.044	0.06	0.12	0.0035 J	0.0073	0.072	0.0013 J	< 0.00050	0.0046 J	0.061	
		Nov-14		0.048	0.12	0.064	< 0.02	< 0.0072	0.068	< 0.0068	< 0.0061	< 0.016	0.12	
		Nov-14	FD	0.048	0.12	0.066	< 0.02	< 0.0072	0.067	< 0.0068	< 0.0061	< 0.016	0.12	
		Apr-15		0.0332	0.0394	0.140	< 0.0100	0.00396 J	0.0523	< 0.00340	< 0.00310	< 0.00780	0.0394	
		Apr-15	FD	0.0334	0.0407	0.142	< 0.0100	0.00405 J	0.0535	< 0.00340	< 0.00310	< 0.00780	0.0407	
		Oct-15		0.053	0.0703	0.00902	0.00422 J	0.00309	0.0633	0.00162	< 0.000307	0.00623	0.0719	
		Oct-15	FD	0.0625	0.0837	0.0127	< 0.0100	0.00385 J	0.0751	< 0.00341	< 0.00307	0.00878 J	0.0837	

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Analyte Group:				Volatile Organic Chemicals										Cyanide
Analyte:				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
CGWSL Source:				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
TMD	MW-8	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0014 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-16	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100 UJ	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-20	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330 J	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-21	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0051	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.006	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.00729	< 0.00100 UJ	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.00636	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	MW-25	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100 UJ	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-26	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-27	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-46R	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	0.0015 J	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-68	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
	MW-71	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Oct-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
	MW-89	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100 UJ	< 0.000360	< 0.000350	0.000538 J	< 0.000310	< 0.000780	< 0.00110	

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				Isopropylbenzene	m,p-Xylene	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	Styrene (Monomer)	Toluene	Total Xylenes	Cyanide
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				4.47E-01	---	1.43E-01	3.00E-02	---	---	1.93E-01	1.00E-01	7.50E-01	6.20E-01	2.00E-01
				WQCC TW		WQCC TW	WQCC HH			WQCC TW	USEPA MCL	WQCC HH	WQCC HH	EPA MCL
Area	Location	Date	Dup											
TMD	NP-1	Apr-13		< 0.0050	< 0.010	0.140	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Oct-13		< 0.0050	< 0.010	0.06	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-14		< 0.00050	< 0.00060	0.0056	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	
		Nov-14		< 0.00033	< 0.00072	0.084	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00031	< 0.00078	< 0.0011	
		Apr-15		< 0.000330	< 0.000720	0.204	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310 UJ	< 0.000780	< 0.00110	
		Oct-15		< 0.000326	< 0.000719	0.291	< 0.00100	< 0.000361	< 0.000349	< 0.000341	< 0.000307	< 0.000780	< 0.00106	
	NP-2	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
	NP-6	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
		Apr-15		< 0.000330	< 0.000720	0.00878	< 0.00100 UJ	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	
Upgradient	UG-1	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
	UG-2	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13	FD	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180
	UG-3R	Apr-13		< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	< 0.0200
		Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0015	< 0.00500
		Apr-15		< 0.000330	< 0.000720	< 0.000370	< 0.00100	< 0.000360	< 0.000350	< 0.000340	< 0.000310	< 0.000780	< 0.00110	< 0.00180

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
Crossgradient	KWB-13	Apr-13		457	141	0.701	1.31	176	1820	3910	14.1
		Apr-14		418	158	0.58	0.724	143	1820	3750	14.6
		Apr-15		474	788	0.704	6.65	148	1970	3060	15.3
	MW-17	Apr-14		395	174	1.19	2.31	72.2	1200	2340	2.19
	NP-5	Apr-13		465	413	2.58	< 0.400	253	3090	5980	2.33
		Apr-15		448	993	2.13	0.484 J	209	3030	6060 J	1.38
	RA-3156	Apr-13		516	245	< 0.500	3.03	162	1560	3050	6.62
		Nov-13		537	238	0.208	3.06	169	1450	3390	9.09
		Apr-14		< 0.500	278	0.299	2.67		1800	3280	7.89
	MW-136	Oct-15		706	265	1.56	3.2	144	2740	4020	22.1
EP	MW-1R	Apr-13		633	1650	0.877	4.56	816	1980	5460	< 1.00
		Apr-13	FD	592	1610	0.869	4.66	904	1920	5400	< 1.00
		Apr-14		540	1560	0.567	4.27	1010	1900	5740	< 0.150
		Apr-15		765 J	1970	0.821	4.52 J	1080 J	2400	5020	< 0.0200
	MW-2A	Mar-13		528	1410	5.18	4.68	785	1920	4970	2.87
		Nov-13		710	3780	3.4	8.18	3230	4030	13500	< 0.500
		Apr-14		794	5440	2.19	6.58	3440	4310	16200	< 0.150
		Nov-14			4900	2.3	5.8		3900	13000	1.3
		Apr-15		944	6730	1.06	7.71 J	4780	4830	14200	0.0404 J
		Oct-15		677	3870	2.14	5.85	2590	3670	10500	0.0390 J
	MW-3	Mar-13		510	1030	2.59	6.23	721	2030	4610	< 1.00
		Nov-13		696	2490	2.48	9.04	1390	2510	8000	9.72
		Apr-14		827	2300	1.39	6.57	1300	1930	7400	9.07
		Nov-14		760	2000	1.7	6.8	1200	2600	7200	4.8
		Nov-14	FD	780	2600	2.2	7	1200	2700	7100	5.2
		Apr-15		839	33.2	2.1	6.16	1850	25	12200	24.5
		Apr-15	FD	927	3270	1.6	6.8	1790	3000	17800	20.2
		Oct-15		613	1950	1.99	7.17	1220	2810	6140	0.182
		Oct-15	FD	636	1920	1.84	7.11	1210	2730	6480	0.0580 J
	MW-4A	Apr-13		423	1360	2.3	6.44	962	1680	6420	< 1.00
		Nov-13		605	1380	1.66	5.71	1030	2170	5790	< 0.500
		Apr-14		571		1.47	4.24	990		5600	0.199 J
		Nov-14		690	1400	1.6	5.1	1000	2500	5700	0.96
		Apr-15		660	1560	1.29	4.12 J	1080	2850	7470	< 0.0200
		Oct-15		394	1380	1.92	5.23	1010	2110	4290	0.0530 J
	MW-4B	Apr-13		371	928	0.87	3.64	556	1330	3660	< 1.00
		Apr-15		367	1110	0.963	2.32	696	1340	3410 J	< 0.0200
	MW-5A	Apr-13		519	3470	3.76	9.05	3150	6080	14400	< 1.00
		Nov-13		561	4290	3.22	7.08	4320	5540	18000	< 0.500
		Apr-14		562	4710	3.03	6.58	4230	8160	18100	< 0.150
		Nov-14		580	3300	1.9	6.4	4200	8100	16000	< 0.02
		Apr-15		519	4100	1.53	6.15 J	4220	9370	17000	< 0.0200
		Oct-15		513	4760	1.78	7.27	4500	8480	17800	0.0450 J
	MW-5B	Apr-13		473	1840	2.2	10.8	1600	2950	7500	2.93
		Apr-15		482	1590	1.41	9.01	1580	3510	5980	< 0.0200

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Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
EP	MW-5C	Apr-13		420	639	1.2	4.21	446	1580	3620	< 1.00
		Apr-15		427	585	0.91	3.97 J	485	2020	3290	< 0.0200
	MW-6A	Mar-13		301	980	2.05	1.36	735	1610	3950	< 1.00
		Apr-14		762	1620	1.31	2.44	998	1980	5600	0.245 J
		Apr-15		809	2010	1.85	2.14 J	1090	2240	6500	0.875
	MW-6B	Mar-13		530	1370	0.533	4.31	710	1640	4480	< 1.00
		Mar-13	FD	478	1420	0.814	4.87	753	1690	4510	< 1.00
		Apr-15		568	1740	0.669 J	5.09	873	2280	4760	< 0.0200
	MW-7A	Apr-13		351	2060	1.54	4.11	1420	2570	6760	< 1.00
		Nov-13		464	2930	1.25	5.71	2190	2190	8280	< 0.500
		Apr-14		469	2670	1.19	4.46	1750	3290	7760	< 0.150
		Nov-14		760	3600	0.69	5.2	2600	4100	11000	< 0.02 J6
		Nov-14	FD	770	1800	1.2	5.2	2500	2100	11000	< 0.02
		Apr-15		609	3080	0.693	4.18	2060	3620	9840	< 0.0200
		Apr-15	FD	593	3100	0.996	4.21	2060	3190	9300	0.0262 J
		Oct-15		403	2470	1.08	3.96	1590	4020	7100	< 0.0197
		Oct-15	FD	404	2230	1.12	3.95	1690	3150	7180	< 0.0197
	MW-7B	Apr-13		545	1030	3.09	6.66	540	1800	4280	< 1.00
		Apr-15		556	1060	0.795	6.27	672	2200	4640	< 0.0200
	MW-10	Apr-13		502	1450	0.713	3.86	940	2070	5360	< 1.00
		Nov-13		644	1560	0.743	4.46	1260	1940	5690	< 0.500
		Apr-14		545	1660	0.551	4.06	1060	2290	5540	< 0.150
		Nov-14		750	1700	0.88 J6	4.3	1200 V	2800	5900	0.23
		Apr-15		466	1380	0.919	3.54 J	941	2110	5030	< 0.0200
		Oct-15		518	1580	0.783	3.68	1080	2620	5340	0.28 J
	MW-11A	Mar-13		1060	9220	0.821	22.9	4510	3110	20000	< 1.00
		Apr-14		1250	12400	0.647	22.9	5140	2410	25400	0.488 J
		Nov-14		2600	17000	< 0.0099	21	8300	3000	30000	15
		Apr-15		1630	11800	0.0639 J	19 J	6090	2910	24900 J	1.47
		Oct-15		1200	9930	0.152	20.3	5260	3780	18300	0.265
	MW-11B	Mar-13		855	6560	< 0.500	35.2	3340	3030	15100	< 1.00
		Apr-15		1070	6000	0.562	36.6	4040	3860	12700	< 0.0200
	MW-12	Apr-14		728	2460	0.685	5.57	1280	2490	7960	4.1
	MW-13	Apr-14		682	1780	0.354	5.56	914	2180	6520	0.463 J
	MW-15	Mar-13		771	2640	2.13	6.02	1240	2180	8120	13.3
		Apr-14		849	2960	2.33	5.68	1420	1770	19900	40.2
		Apr-15		565	2150	2.12	5.01	1300	2000	5470	16
	MW-18A	Apr-13		672	6800	3.4	41.5	4080	5810	18300	< 1.00
		Nov-13	FD	690	11600	4.26	64.5	7210	7460	33300	4.4
		Nov-13		678	14600	4.42	64.4	7080	8700	34100	3.41
		Apr-14		723	10200	3.63	61.4	6620	6760	27700	2.61
		Nov-14		850	12000	< 0.0099	54	7500	10000	32000	< 0.02
		Apr-15		718	11600	6.14	56.7	7290	9490	32600	2.18
		Oct-15		711	9930	5.43	51.8	6250	10600	27400	0.146
	MW-18B	Apr-13		592	803	1.1	6.32	474	1870	4060	< 1.00
		Apr-15		581	763	0.931	5.91	460	1840	4410	0.0280 J

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
EP	MW-22A	Apr-13		564	1920	< 0.500	4.17	1150	2310	6380	< 0.100
		Nov-13		667			4.68	1870			
		Apr-14		514	2290	0.766	4.02	1290	2540	6640	< 0.150
		Nov-14		610	2000	0.58	3.9	1400	2600	6600	< 0.02
		Nov-14	FD	720	1700	0.77	3.9 J	1700	2200	6600	< 0.02
		Apr-15		549	2150	0.758	3.79 J	1450	2500	7270	< 0.0200
		Apr-15	FD	494	2020	0.682	3.16 J	1240	2590	6630	< 0.0200
		Oct-15		529	1980	0.621	3.64	1480	2660	6330	0.358 J
		Oct-15	FD	527	1970	0.61	3.65	1640	2650	6090	0.441 J
	MW-22B	Apr-13		530	1470	0.619	4.48	932	2240	5460	< 1.00
		Apr-15		477	1400	0.823	4.02 J	1150	2170	5590	< 0.0200
	MW-70	Apr-13		666	1110	0.704	5.1	634	2200	5360	< 1.00
		Nov-13		660			6.61	746			
		Apr-14		697	1310	0.56	5.38	729	2950	5080	0.210 J
		Nov-14		700			5.5	730			
		Apr-15		695	1240	0.74	4.9	774	2230	5700	< 0.0200 J
		Oct-15		756			5.51	782			
	MW-72	Mar-13		745	3580	7.02	8.14	2070	2760	9740	< 1.00
		Nov-13		753	3540	6.26	9.43	2340	2200	9890	< 0.500
		Apr-14		795	4350	6.27	9.87	2440	3020	10300	3.1
		Apr-15		896	5240	3.91	13.3	3030	3800	12900	6.37
	MW-73	Mar-13		585	2160	2.65	2.64	2250	3770	8980	< 1.00
		Oct-13		571	2110	2.19	2.73	2430	3140	9720	< 0.500
		Apr-14		590	2260	2.09	2.54	2160	3510	9120	< 0.150
		Apr-15		659	2480	1.94	3.12 J	2200	4560	9360	0.757
	MW-74	Mar-13		660	2130	10.3	34.2	1960	3660	8460	< 1.00
		Oct-13		597	1760	8.51	52.8	2290	3680	9590	109
		Apr-14		656	1970	8.66	45.6	2250	4050	8940	67
		Nov-14		670	1600	6.4	45	2300	4400	8700	420
		Apr-15		552	1170	6.02	39.4	2230	4450	9360	176
		Oct-15		558	1810	6.19	39.2	2330	4140	8720	12.3
	MW-75	Mar-13		360	1600	9.9	21.1	1540	2120	6030	< 1.00
		Oct-13		353	1500	8.52	18.9	1600	1950	6000	< 0.500
		Apr-14		379	1610	8.37	21.4	1550	1930	6180	< 0.150
		Nov-14		410	1400	6.9	20	1500	2400	5700	< 0.02
		Apr-15		372	11.8 J	8.2	20.3	1490	14.2 J	4020	< 0.2
		Oct-15		352	1550	7.8	19.3	1560	2510	5280	0.0590 J
	MW-76	Mar-13		429	1350	4.48	27.8	1060	1980	5230	< 1.00
		Oct-13		499	1300	4.38	29.9	1030	1960	5540	< 0.500
		Apr-14		470	1200	3.16	30	980	1730	4980	< 0.150
		Nov-14		610	1300	3	31	1100	2800	6000	< 0.02
		Apr-15		558	18.1 J	3.15	29.7	1120	22 J	4650	< 0.2
		Oct-15		445	1370	3.1	28	1070	2480	4840	0.0310 J

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Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
EP	MW-77	Mar-13		481	1060	3.66	57.9	1330	3240	7230	< 1.00
		Oct-13		541	846	5.59	59.2	1240	2840	7150	< 0.500
		Oct-13	FD	519	852	5.22	59.3	1190	2790	7100	< 0.500
		Apr-14		627	781	3.5	72.1	1540	3390	8060	2.85
		Nov-14		630	500	2.7	84	1300	4100	8200	< 0.02
		Apr-15		609	10.8 J	4.21	72.1	1410	37.7 J	5350	< 0.2
		Oct-15		557	433	2.42	82.5	1490	4820	7510	0.211
	MW-78	Mar-13		286	655	19.7	22.7	660	2270	5260	2.51
		Apr-14		542	215	10.9	25.2	524	2650	5760	< 0.150
		Apr-15		576	63.2	0.0979 J	18.9	320	19.6 J	2560	4.24
	MW-79	Mar-13		546	1680	10.3	9.05	1200	2240	5880	< 1.00
		Oct-13		597	1930	8.3	9.95	1220	2300	6060	1.47
		Apr-14		599	1810	8.56	9.27	1510	2690	6920	12.5
		Nov-14		650	1600	5.8	8.6	1100	2500	5600	2.9
		Apr-15		649	1570	5.52	7.98	1150	2930	5660	1.9 J
		Oct-15		517	1440	6.43	7.61	857	2440	5210	0.147
	MW-80	Mar-13		635	1310	3.82	4.02	911	2260	5130	< 1.00
		Apr-14		645	1470	3.62	3.84	983	2070	6080	2.73
		Apr-15		693	1600	3.15	3.08 J	1210	2700	5600	0.519
	MW-81	Mar-13		560	1260	7.57	6.47	915	2070	4950	12.2
		Mar-13	FD	563	1280	7.66	6.57	903	2120	5040	4.61
		Apr-14		111	1140	8.13	9.51	255	2350	6500	79.1
		Apr-15		583	1110	6.2	9.4	1380	2800	6260	99.5
	MW-82	Mar-13		298	1520	19.2	10.3	1890	2600	6270	< 1.00
		Apr-14		279	2880	18.2	9.55	1800	3910	6260	< 0.150
		Apr-14	FD	286	1510	18	9.02	1810	2070	5460	< 0.150
		Apr-15		284	1110	10.7	9.28	1700	2200	5770	< 0.0200
	MW-83	Mar-13		379	976	5.53	34	931	2620	5440	2.89
		Oct-13		552	54.2	4.88	60	564	4310	7620	< 0.500
		Apr-14		484	271	4.58	53.8	616	3920	7400	4.54
		Nov-14		520	14	3.9	56	410	4200	6400	< 0.02
		Apr-15		566	55.5	3.96	58.4	364	32.7 J	4810	< 0.2
		Oct-15		388	202	7.32	34	271	3210	4530	0.0860 J
	MW-84	Mar-13		633	1970	6.48	6.59	1530	3920	8580	< 1.00
		Oct-13		616			12.1	1680			
		Apr-14		698	1620	6.07	8.8	1750	3660	10500	< 0.150
		Nov-14		610	1300	5.2	14	1600	5800	11000	0.14
		Apr-15		555	1460	4.41	7.41	1480	4620	4230	< 0.2
		Oct-15		596	1070	8.23	17	1580	7300	12400	4.83
	MW-87	Apr-13		636	4310	2.25	23.8	2860	4690	12900	< 1.00
		Nov-13		762			31.8	4470			
		Apr-14		662	5340	1.5	28.6	3120	4760	13600	2.11
		Nov-14		750			26	2700			
		Apr-15		740	4880	1.19	27.3	3190	4390	13800	0.241
		Oct-15		737			26.5	3250			

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
EP	MW-88	Apr-13		400	1490	1.35	3.39	992	2140	5160	< 0.100
		Nov-13		670			3.36	1850			
		Apr-14		377	2000	1.26	3.11	1330	2820	7340	< 0.150
		Nov-14		570			3	1300			
		Apr-15		519	3000	1.8	2.66 J	2250	4970	11000	< 0.0200
		Oct-15		397			3.03	1270			
	MW-120	Oct-13		589	1920	4.08	4.64	1640	3220	8090	2.06
		Apr-14		587	2180	3.56	3.99	1470	3430	8000	< 0.150
		Nov-14		850	2800	2	5	1900	3600	8700	1.8
		Apr-15		677	2480	2.49	3.92 J	1620	3080	7660	2.49
		Oct-15		860 J	3640	2.38	3.6	1790 J	3100	9720	0.0350 J
	MW-121	Oct-13		751	1990	4.34	3.39	906	2050	6390	0.553
		Apr-14		750	1880	3.85	3.15	922	2210	6040	2.41
		Nov-14		720	1400	3.2	3.4	940	3100	6100	3.8 J6
		Apr-15		642	1370	3.69	2.67	854	2740	6040	2.08
		Oct-15		619	1220	4.24	3.38	942	3360	6290	2.96
	MW-122	Oct-13		384	1170	4.23	4.54	888	1510	4490	< 0.500
		Apr-14		492	1370	3.53	5.14	1050	2190	5740	< 0.150
		Nov-14		860	4200	2.1	5.9	3900	5700	16000	0.94
		Apr-15		658	2970	3.38	5.51 J	2660	4380	10700	0.229
		Oct-15		382	1580	3.29	4.06	1090	2560	5700	0.0380 J
	MW-123	Nov-13		578	1590	1.07	4.35	1260	1860	5680	< 0.500
		Nov-13	FD	578	1030	1.14	4.18	1280	1880	5380	< 0.500
		Nov-13		578	1590	1.07	4.35	1260	1860	5680	< 0.500
		Apr-14		539	1680	1.21	4.25	1170	2050	5900	< 0.150
		Nov-14		580	1400	1	3.9	1100	2300	5600	< 0.02
		Apr-15		532	1560	1.16	3.84 J	1120	2220	5650	< 0.0200
		Oct-15		527	1710	1.11	3.71	1190	2360	5490	0.27 J
	MW-124	Nov-13		784	3450	1.39	9.37	1940	2820	10100	0.583
		Apr-14		798	3380	0.968	6.94	1610	3800	10000	< 0.150
		Nov-14		820	3000	0.66	7.1	1700	3800	9500	< 0.02
		Apr-15		779	3240	0.922	6.8	1970	3610	11400	0.0265 J
		Oct-15		780	3210	0.915	7.41	1840	4120	10100	0.0310 J
	OCD-1R	Nov-13		637			6.22	5010			
		Apr-14		656	3940	3.4	4.52	3000	3410	11400	0.808 J
		Nov-14		840	5800	1.1	4.1	4700	6300	11000	1.1
		Apr-15		837	5290	2.5	4.95 J	4050	4860	14900	1.29
		Oct-15		641	3100	2.78	4.86	2660	3710	9160	0.144 F
	OCD-2A	Mar-13		887	2820	0.798	7.04	1250	2360	7690	< 1.00
		Nov-13		658			5.02	2030			
		Apr-14		662	2490	0.77	4.78	1460	2060	7300	< 0.150
		Nov-14		840			4.5	2700			
		Apr-15		788	2960	0.969	5.05	1600	2740	8340	0.264
		Oct-15		707			7.05	1490			

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
EP	OCD-3	Mar-13		512	953	1.13	12.5	523	1690	3950	< 1.00
		Nov-13		642			14.8	1410			
		Apr-14		514	990	0.768	13.4	680	2000	5160	< 0.150
		Nov-14		760			13 O1J5	1700 O1V			
		Apr-15		659	1610	1.02	12.6	1060	2240	6070	0.0878 J
		Oct-15		760			14.1	904			
	OCD-4	Mar-13		872	4920	0.613	35.7	2520	3140	12500	< 1.00
		Nov-13		878			43.7	3010			
		Apr-14		818	5370	0.787	37.1	2520	2880	12900	< 0.150
		Nov-14		1100			36	3400			
		Apr-15		1010	5850	0.506	36.5	3590	4550	12900	< 0.0200
		Oct-15		833			33.2	2560			
	OCD-5	Mar-13		866	4850	1	36.4	2620	3080	12400	< 1.00
		Nov-13		835			39.3	2940			
		Apr-14		744	4810	0.613	35.7	2580	2710	12400	< 0.150
		Apr-14	FD	694	5250	0.67	35.1	2400	2970	11900	< 0.150
		Nov-14		1000	5100	0.42	35	3500	3400	12000	< 0.02
		Apr-15		901	4490	0.691	39.6	2930	3090	10800	0.0434 J
		Oct-15		836	4700	0.548	39.6	3130	3430	12000	0.0380 J
	OCD-6	Mar-13		603	4000	3.84	13.1	2900	3300	11200	< 1.00
		Nov-13		757			13.4	3130			
		Apr-14		806	4500	2.34	13.4	3120	2770	11900	0.232 J
		Nov-14		780	2900	2.5	11	1700	2600	7700	< 0.02
		Apr-15		779	4050	1.85	15.5	2470	3320	10300	0.211
		Oct-15		756	4510	2.09	15	3380	3400	10700	0.0280 J
	OCD-7AR	Mar-13		592	2190	4.9	7.49	2050	3670	9400	< 1.00
		Nov-13		623			7.48	2250			
		Apr-14		646	2290	2.74	6.92	2250	3450	8060	< 0.150
		Apr-14	FD	651	2890	2.82	7.22	2220	4330	8700	< 0.150
		Nov-14		700	2800	3.5	6.6	2500	3900	9100	0.15
		Apr-15		609	2110	2.91	5.52	2050	3650	8260	0.26
		Oct-15		635	2490	2.55	5.83	2870	4500	8960	0.025 J
	OCD-7B	Mar-13		552	867	1.33	12.2	650	2270	4670	< 1.00
		Apr-15		641	910	0.852	11.9	685	2580	4520	< 0.0200
	OCD-8A	Apr-13		674	2540	3.95	8.92	2050	3770	9760	< 1.00
		Apr-13	FD	642	2630	3.78	8.76	2030	3910	5320	< 1.00
		Nov-13		722			9.31	2050			
		Apr-14		671	3200	2.04	8.7	2170	3690	10300	< 0.150
		Apr-14	FD	657	3030	1.92	8.73	2260	3330	9780	< 0.150
		Nov-14		1200	6300	1.7	13	3500	3500	13000	< 0.02
		Apr-15		1190	6270	0.826	10.8	3330	3620	13700	< 0.0200
		Oct-15		946	5140	1.36	11	2870	3690	11900	< 0.0197
	OCD-8B	Apr-13		716	2180	0.98	8.75	1330	2880	7400	< 1.00
		Apr-15		680	2020	0.934	9.51	1520	2910	7110	0.0233 J

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
Field E of Refinery	KWB-1A	Apr-13		537	422	1.11	1.16	176	2430	4670	< 1.00
		Oct-13		583	489	1.28	1.11	206	2420	4850	< 0.500
		Apr-14		583	459	0.916	1.28	206	2440	5180	< 0.150
		Nov-14		590	470	1	0.99 J	220	2800	4500	1.4
		Apr-15		596	555	1.17	1.01	202	3400	5320	4.22
		Oct-15		549	539	1.15	1.09	230	2800	4580	0.666 J
	KWB-1C	Apr-13		474	380	1.03	5.68	161	2150	4420	1.75
		Apr-15		619	1160	25.3	1.23	210	2920	5340	0.18
	KWB-7	Apr-13		357	615	0.923	1.09	297	1080	3340	< 1.00
		Nov-14		360	440	0.78	0.26 J	280	1000	2800	< 0.02
		Apr-15		279	301	0.754	0.209 J	238	886	2100	< 0.2
		Oct-15		320	358	0.813	0.152 J	252	1120	2570	0.202 J
	KWB-10R	Nov-14		170	190	0.59	0.51 J	160	< 0.077	1200	< 0.02
		Apr-15		132	800	19.7	0.44 J	141	1.03 J	1190	< 0.2
		Oct-15		132	192	1.31	0.491 J	136	0.117 J	1090	0.0420 J
	KWB-11A	Apr-13		398	1070	0.818	0.643	323	1030	4020	17
		Nov-14		720	1200	0.59	0.79 J	400	1100	4700	47
		Nov-14	FD	740	1500	0.59	0.81 J	430	1400	4500	46
		Apr-15		568	1270	0.58	0.305 J	370	2280	4020	15.7
		Oct-15		674	1620	0.66	0.748 J	406	1570	5320	49.3
	KWB-11B	Apr-13		420	294	< 0.500	3.26	93.8	1480	2820	2.7
		Apr-14		396	291	0.291	2.15	77.4	1250	2480	2.25
		Nov-14		450	240	0.4	2.2	86	1400	2100	2.4
		Apr-15		469	275	0.318	2.12	93	1760	2630	2.8
		Oct-15		410	247	0.467	2.07	80.6	1340	2350	2.17
	KWB-12A	Oct-13		495	125	0.5	0.732	135	2170	3470	4.58
		Nov-14		590	140	0.47	0.89 J	140	2300	3400	4.3
		Nov-14	FD	610	130	0.45	0.67 J	150	2400	3700	4.3
		Apr-15		528	668	18.5	0.723 J	128	2380	3660	4.31
		Apr-15	FD	493	133	0.605	0.63 J	123	2110	3630	4.34
		Oct-15		560	138	0.618	0.963 J	155	2730	3490	4.55
	KWB-12B	Apr-13		531	111	< 0.500	0.831	160	2460	4150	7.42
		Apr-13	FD	544	114	< 0.500	0.737	157	2450	4240	7.46
		Oct-13		521	106	0.357	0.732	143	2040	3640	4.74
		Apr-14		526	122	0.296	0.756	138	2130	3800	5.56
		Apr-14	FD	569	129	0.291	0.795	143	2070	3620	5.55
		Nov-14		650	120	0.31	0.72 J	170	2400	3600	4.5
		Apr-15		549	689	20.2	0.523 J	130	2520	3730	3.8
		Oct-15		537	124	0.398	0.537 J	131	2580	3320	4.77
		Oct-15	FD	538	123	0.43	0.569 J	127	2450	3270	4.82
	KWB-P4	Apr-13									
		Apr-15									

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
Field E of Refinery	MW-57	Apr-13		273	476	2.08	0.825	343	1140	3210	< 1.00
		Oct-13		235	172	0.706	0.349	116	387	1490	< 0.500
		Apr-14		674	152	0.395	11.2	118	464	1700	< 0.150
		Nov-14		570	540	1.8	1.2	440	1900	4100	2.7
		Apr-15		641	1430	22.3	1.57	460	2890	6010	16.2
		Oct-15		487	541	1.69	1.16	342	2050	3330	12.9
	MW-58	Oct-13		223	342	1.15	0.755	131	199	1770	< 0.500
		Nov-14		340	140	1.4	0.55 J	66	160	1300	< 0.02
		Apr-15		200	149	1.15	0.317 J	58.8	9.63	1150	< 0.2
		Oct-15		234	239	1.35	0.459 J	71.5	4.8 J	1240	< 0.197
	MW-111	Apr-13		214	548	1.19	0.652	184	198	2150	< 1.00
		Oct-13		219	559	1.34	0.31	218	188	1840	< 0.500
		Apr-14		214	525	1.01	0.456	198	235	2020	0.153 J
		Nov-14		260	510	2	0.49 J	220	250	1700	< 0.02
		Apr-15		270	427	1.01	0.521 J	172	294	1600	< 0.0200
		Oct-15		227	408	1.51	0.415 J	222	473 J	1530	0.0220 J
	MW-112	Nov-14		190	230	1	0.31 J	190	5.4	1200	< 0.02
	MW-113	Apr-13		249	219	< 0.500	0.849	151	756	2260	< 1.00
		Oct-13		270	220	0.566	0.723	151	746	2110	< 0.500
		Apr-14		300	205	0.282	1.45	152	693	2440	< 0.150
		Nov-14		300	180	0.56	0.4 J	160	800	1900	< 0.02
		Nov-14	FD	320	190	0.49	0.4 J	170	860	2000	< 0.02
		Apr-15		285	194	0.606	0.526 J	151	957	2030	< 0.0200
		Apr-15	FD	259	191	0.607	0.622 J	132	877	1980	< 0.0200
		Oct-15		287	197	0.503	0.528 J	153	1000	2020	0.243 J
		Oct-15	FD	288	197	0.493	0.529 J	156	998	2140	< 0.197
	MW-125	Apr-14		636	361	1.17	1.56	297	2700	4960	0.399 J
		Nov-14		610	340	1	1.3	260	2900	4100	0.2
		Apr-15		523 J	329	1.17	1.21	217	2680	4700	0.295
		Oct-15		524	316	1.22	1.31	224	2750	4200	0.348 J
	MW-126A	Apr-14		472	331	0.599	3.09	197	2080	4510	< 0.150
		Nov-14		360	190	0.98	0.66 J	180	1400	2400	< 0.02
		Apr-15		355	898	0.833	0.602 J	189	1530	2900	< 0.2
		Oct-15		281	200	1.03	0.511 J	178	1300	2500	< 0.197
	MW-126B	Apr-14		354	341	0.795	0.531	196	1600	4030	< 0.150
		Nov-14		600	290	0.68	2.4	210	2400	3500	0.39
		Apr-15		548	319	0.658	2.1 J	196	2550	3660	0.684 J
		Oct-15		531	295	0.85	2.18	201	2330	4060	0.438 J
	MW-127	Apr-14		185	275	0.95	0.612	145	392	2040	< 0.150
		Nov-14		290	240	0.93	0.99 J	160	620	1800	< 0.02
		Apr-15		238	209	0.902	0.579 J	147	511	1750	< 0.2
		Oct-15		234	243	1.06	0.256 J	143	642	1900	< 0.197

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Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
Field E of Refinery	MW-128	Apr-14		207	283	0.991	0.515	106	172	1380	< 0.150
		Nov-14		250	320	1.1	1.2	110	250	1400	< 0.02
		Apr-15		214 J	307	1.22	0.414 J	104	290	1490	< 0.0200
		Oct-15		202	282	1.22	0.341 J	105	280	1560	< 0.197
	MW-129	Nov-14		270	320	0.98	0.8 J	210	52	1300	< 0.02
		Apr-15		192	302	0.9	0.53 J	195	69.4	1330	< 0.2
		Oct-15		169	313	1.08	0.315 J	194	57.8	1280	< 0.197
	MW-130	Apr-14		321	316	0.533	1.34	284	1020	3080	0.975 J
		Nov-14		310	250	0.73	1	310	1200	2600	0.35
		Apr-15		81.8 J	259	0.952	6.71	125	1080	3710	0.471
		Oct-15		261	237	0.829	0.688 J	293	1200	2380	0.495 J
	MW-131	Apr-14		147	337	0.637	0.573	150	12.2	1360	< 0.150
		Nov-14		200	290	0.47	0.64 J	160	8.3	1200	< 0.02
		Apr-15		168	271	0.683	0.328 J	157	9.57	1980	< 0.0200
		Oct-15		197	295	0.787	0.622 J	161	16.1	1180	0.0380 J
	MW-133	Nov-14		200	170	1.1	0.46 J	140 V	140	1300	< 0.02
		Apr-15		163	174	1.19	0.323 J	122	116	1190	< 0.2
	MW-134	Apr-14		569	459	0.952	1.94	273	2650	5540	2.64
		Nov-14		660	580	0.91	1.8	310	3100	4600	7.4
		Apr-15		840	767	1.24	2.21 J	454	3470	5520	8.15
		Apr-15	FD	710	752	1.35	1.46	307	3380	6400	8.04
		Oct-15		532	521	1.31	1.6	302	2980	5040	3.33
		Oct-15	FD	529	516	1.32	1.58	301	3030	4690	2.98
	MW-135	Apr-14		618	1030	0.739	1.58	507	2090	5700	47.3
		Nov-14		840	1300	0.78	2.8	570	2500	5600	69
		Apr-15		848	1100	0.764	1.42 J	552	2170	5040	67.8
		Oct-15		677	1380	1.17	1.32	544	2460	5800	76.9
	RA-4196	Apr-13		436	204	< 0.500	2.61	84.4	1220	2290	< 1.00
		Apr-13	FD	430	268	< 0.500	2.62	91.7	1340	2420	< 1.00
		Nov-13		416	144	0.318	2.56	91.3	1080	2340	< 0.500
		Nov-13	FD	408	146	0.31	2.67	90.7	1160	2580	< 0.500
		Apr-14		813	137	0.375	2.15		1100	2600	< 0.150
		Apr-15		391	144	0.41	2.07	93.4	1400	2170	< 0.0200
		Oct-15		417	145	0.324	2.26	104	1470	2290	0.269 J
	RA-4798	Apr-13		440	155	< 0.500	2.68	117	1460	2580	1.39
		Nov-13		348	99.1	0.309	2.65	80.4	871	2030	2.35
		Apr-14		412	137	0.389	2.07		1270	2340	2.73
		Apr-14	FD	489	146	0.37	2.49		1150	2280	< 0.150
		Nov-14		400	150	0.33	2.2	110	1400	2200	1.5
		Apr-15		465	183	0.415	2.21	128	1740	2740	0.936
		Oct-15		396	142	0.335	2.12	105	1520	2230	1.53
	RW-18	Apr-13		474	411	2.4	1.13	226	3230	5820	3.24
		Apr-14		545	347	1.78	0.984	218	2860	5600	3.33
		Apr-15		482	232	2.46	1.3	230	3670	4440	6.55

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
Field E of Refinery	RW-20	Apr-15		228	256	0.53	< 0.18	228	125	1430	< 0.2
	RW-22	Apr-15		184	402	0.86	0.319 J	274	78.4	1680	< 0.2
N Refinery	MW-23	Apr-13		91.7	498	1.15	0.97	489	2.81	2270	< 1.00
		Oct-13		96	521	1.87	1.22	437	9.12	2130	< 0.500
		Apr-14		88.3	509	1.33	1.12	483	24	1940	< 0.150
		Nov-14		260	920	2.4	1.3	740	740	4000	< 0.02
		Apr-15		222	864	1.63	0.562 J	577	509	3030	0.0259 J
		Oct-15		114	480	1.72	1.92	463	29.9	2190	2.7 J
	MW-29	Apr-13		520	414	3.32	9.81	342	2540	5100	< 1.00
		Oct-13		324	310	1.24	2.02	310	1310	3310	< 0.500
		Apr-14		539	319	2.66	9.84	293	2450	4860	< 0.150
		Nov-14		570	320	1.8	4.6	300	2500	4100	< 0.02 J6
		Apr-15		427	283	0.795	1.52	207	2100	1000	< 0.0200
		Oct-15		397	115	0.722	0.823 J	167	2080	3330	< 0.197
	MW-39	Oct-13		89.9	385	2.31	0.353	1080	893	3600	< 0.500
		Apr-15		509	190	3.09	3.62 J	179	1380	2640	< 0.2
		Oct-15		432	152	2.48	3.14	133	1660	2960	0.3 J
	MW-40	Apr-13		374	153	1.34	1.34	109	1220	2720	< 1.00
		Apr-14		386	179	1.28	1.56	124	1340	2700	< 0.150
		Apr-15		571	298	1.66	1.89 J	134	1380	2640	< 0.2
	MW-41	Apr-13		236	322	0.865	0.463	431	1260	3160	< 1.00
		Oct-13		232	373	1.05	0.404	425	1170	3140	< 0.500
		Apr-14		242	275	0.747	0.444	387	1450	3760	< 0.150
		Apr-15		313	290	1.07	0.648 J	501	1410	2710	< 0.0200
	MW-42	Apr-13		274	752	0.569	0.583	500	911	3780	< 1.00
		Oct-13		233	697	0.987	0.535	455	862	3610	< 0.500
		Apr-14		248	914	0.545	0.56	508	954	3440	< 0.150
		Apr-15		309	562	0.962	0.579 J	611	1110	3440	< 0.0200
	MW-43	Apr-13		205	638	0.614	0.477	465	304	2400	< 1.00
		Oct-13		115	720	0.883	0.538	557	73.7	2420	< 0.500
		Oct-13	FD	126	731	1.19	0.556	520	73.2	2530	< 0.500
		Apr-14		205	886	0.25	0.596	531	218	2650	< 0.150
		Nov-14		200	750	0.78	0.61 J	590 V	98	2300	< 0.02
		Apr-15		186	726	0.709	< 0.18	511	122	2290	< 0.0200
		Oct-15		241	984	2.19	1.26	658	677	4160	< 0.197 J
	MW-59	Apr-13		478	197	1.06	0.657	152	1790	3320	< 1.00
		Apr-14		514	176	0.475	0.643	156	1890	3420	< 0.150
		Apr-15		489 J	178	1.23	0.489 J	139	1760	3300	0.0241 J

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
N Refinery	MW-60	Apr-13		403	275	0.942	0.532	216	1630	3480	< 1.00
		Apr-13	FD	365	271	0.935	0.65	220	1660	3790	< 1.00
		Oct-13		399	237	1.04	0.511	205	1670	3590	< 0.500
		Oct-13	FD	415	235	1.08	0.495	219	1660	3570	< 0.500
		Apr-14		374	238	2.5	0.586	181	1860	3440	< 0.150
		Nov-14		530	200	1.1	0.63 J	240	1900	3400	< 0.02
		Apr-15		411 J	198	0.968	0.558 J	190	1810	3530	< 0.2
		Apr-15	FD	403 J	241	1.07	0.541 J	186	1910	3710	< 0.2
		Oct-15		395	209	0.964	0.565 J	185	1910	3560	< 0.197
		Oct-15	FD	416	210	0.996	0.569 J	191 J	1990	3660	0.276 J
	MW-61	Apr-13		345	514	1.08	0.678	404	1120	3130	< 1.00
		Oct-13		314	632	1.33	0.741	375	1060	3280	< 0.500
		Apr-14		365	520	0.813	0.629	420	1070	3400	< 0.150
		Nov-14		470	250	1.5	1.1	290	930	2700	< 0.02
		Apr-15		457	287	1.3	1.1 J	349	1280	2910	< 0.2
		Oct-15		375	179	2.61	2.28	286	2080	2520	< 0.197
	MW-62	Apr-13		282	257	0.895	1.75	136	407	1870	< 1.00
		Oct-13		293	256	1.91	1.16	207	735	2450	< 0.500
		Apr-14		285	240	1.11	1.12	224	440	3430	< 0.150
		Nov-14		160	470	1.6	1.8	480	5.5	2100	< 0.02
		Apr-15		126	485	1.52	1.72	478	21	1930	< 0.0200
		Oct-15		425	273	1.93	1.31	399	1900	4050	< 0.197
	MW-67	Oct-13		167	211	0.793	0.461	149	180	1580	< 0.500
		Nov-14		240	170	0.61	0.59 J	160	380	1600	< 0.02
		Apr-15		194	208	0.698	0.531 J	160	329	1510	< 0.2
		Oct-15		192	225	0.589	0.533 J	177	311	1450	< 0.197
	MW-90	Apr-13		285	157	1.26	1	186	1140	2700	< 1.00
		Oct-13		343	163	1.8	1.52	301	1650	3560	0.525
		Apr-14		270	162	0.892	0.928	185	1070	2600	< 0.150
		Nov-14		520	160	9.3	3.5	500	6200	8800	4.8
		Apr-15		302	104	2.73	1.63	286	2230	3800	< 0.2
		Oct-15		481	22.7	6.77	2.07	135	4530	5130	3.44
	MW-91	Oct-13		331	37.6	1.37	0.727	40.4	529	1860	< 0.500
		Oct-13	FD	319	35.7	1.24	0.687	39.6	536	2090	< 0.500
		Apr-14		251	29	0.933	0.435	38.8	240	1540	< 0.150
		Nov-14		460	36	1.3	1	37	830	2000	< 0.02
		Apr-15		355	32.8	1.4	0.523 J	30.8	643	1980	< 0.2
		Oct-15		361	35.7	1.34	0.686 J	35	854	2280	< 1.97
	MW-93	Apr-13		312	85	1.24	3.21	99.7	554	1810	< 1.00
		Oct-13		368	114	1.66	3.52	87.6	795	2140	< 0.500
		Apr-14		414	173	1.16	3.11	103	645	2130	< 0.150
		Nov-14		640	200	3.1	4.7	130	1700	3100	< 0.02
		Apr-15		579	221	2.23	2.58 J	126	2050	3080	< 0.0200
		Oct-15		516	251	2.37	5.23	133	3070	3080	2.92 J

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Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
N Refinery	MW-94	Nov-14		190	230	0.59	0.58 J	370	240	2600	< 0.02
		Oct-15		109	245	1.01	0.224 J	355	75.8	2530	< 0.197
	MW-95	Apr-13		177	207	0.569	0.541	136	169	1450	< 1.00
		Apr-14		177	226	0.56	0.494	143	160	1440	< 0.150
		Apr-15		178	275	1.02	0.655 J	177	359	1680	< 0.2
	MW-96	Apr-13		161	165	0.693	1.04	232	332	1720	< 1.00
		Oct-13		236	195	1.15	1.26	259	509	2160	< 0.500
		Apr-14		154	146	0.606	0.891	234	286	1750	< 0.150
		Nov-14		390	220	1.8	1.9	310	1200	3000	< 0.02
		Apr-15		208	884	1.19	1.03	224	1730	1680	0.211 J
		Oct-15		230	190	1.23	1.21	244	583	1990	0.202 J
	MW-98	Apr-13		464	103	1.37	< 0.200	90.3	1750	3590	< 1.00
		Oct-13		480	79.9	2.05	< 0.200	93.9	1650	3220	< 0.500
		Apr-14		471	36.3	0.962	0.218	92.1	1800	3360	< 0.150
		Apr-14	FD	475	38	1.02	0.229	92.8	1810	3390	< 0.150
		Nov-14		460	32	1.9	0.2 J	81	1600	2800	< 0.02
		Apr-15		497	41.6	1.29	< 0.18	91.5	2010	3040	< 0.0200
		Oct-15		427	55.7	1.53	0.134 J	74.9	1790	3340	< 0.197
	MW-137	Oct-15		142	390	1.97	1.9	1320	1090	3880	< 0.197
	MW-138	Oct-15		139	490	1.08	1.75	410	154	1920	< 0.197
	RW-1	Apr-15		358	224	1.33	3.57	210	1330	2410	< 0.2
	RW-2	Apr-15		726	365	1.75	5.55 J	383	3510	5310	< 0.2
	RW-7	Apr-15		252	237	1.15	1.88 J	192	19	1500	< 0.2
	RW-8	Apr-15		227	115	0.801	0.353 J	209	473	1600	< 0.2
	RW-9	Apr-13		262	292	1.46	1.95	314	775	2670	< 1.00
		Apr-14		291	318	1.1	1.57	306	1260	3380	< 0.150
		Apr-15		315	313	1.68	1.69	318	1310	3150	< 0.2
	RW-10	Apr-13		343	190	2.38	6.78	236	1730	3190	< 1.00
		Apr-14		324	231	2.17	5.84	227	2060	3420	< 0.150
		Apr-15		494	187	3.34	9.04	172	2010	3290	0.639
	RW-16	Apr-13		580	451	4.54	1.14	522	2700	5350	< 1.00
		Apr-14		531	452	3.74	0.799	430	2680	5130	< 0.150
		Apr-14	FD	556	429	3.89	0.767	455	2550	5150	< 0.150
		Apr-15		641	534	4.61	1.69 J	594	3220	5430	2.87
	RW-17	Apr-13		598	505	2.19	4.13	383	2960	5470	< 1.00
		Apr-14		585	524	1.84	3.88	405	3280	6100	< 0.150
		Apr-15		683	494	2.58	9.1	631	4180	5840	31.6
N RO Reject Field	MW-117	Feb-13			67.5	3.32			1690	3150	3.22 H
		Nov-13			92.4	3.95			2190	4150	< 1.00
		Apr-14		646	97	3.03	9.29	167	2140	4980	< 0.150
		Nov-14		610	96	3	5.2	110	2000	3000	0.65
		Nov-14	FD	640	96	2.4	5	98	2200	3300	0.64
		Apr-15		613	87.2	3.79	5.97	102	2220	3670	0.372 J
		Oct-15		478	55.4	3.4	6.44	109	1690	2980	0.779 J

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
N RO Reject Field	MW-118	Feb-13			296	5.16			2450	4610	2.39
		Nov-13			90.1	6.78			2470	4640	< 1.00
		Apr-14		732	92.3	5.58	6.15	134	2190	5200	< 0.150
		Nov-14		670	160	4.9 J6	6.2	140	2700	3700	0.98
		Apr-15		601	767	4.14	5.3	153	2510	3960	1.7
		Oct-15		583	86.6	5.13	5.64	162	2690	3960	0.622 J
	MW-119	Feb-13			116	2.36			2090	3670	2.35
		Nov-13			185	3.17			2210	4130	< 1.00
		Apr-14		680	235	2.61	1.13	140	1980	4200	0.176 J
		Apr-14	FD	655	216	2.62	1.08	136	1830	4140	0.174 J
		Nov-14		670	49	2.6	1.8	77	2300	3200	< 0.02
		Apr-15		590	48.2	1.99	0.232 J	54.5	2040	3030	0.292 J
		Oct-15		624	152	2.65	0.985 J	86.3	2290	3500	0.437 J
NCL	MW-18	Apr-13		494	143	1.13	2.86	97.3	1590	3110	32.5
		Apr-13	FD	480	141	1.11	2.85	97.1	1640	3440	32.5
		Apr-13		494	143	1.13	2.86	97.3	1590	3110	32.5
		Oct-13		456	114	2.26	13.3	64.7	1450	3260	21.3
		Apr-14		507	159	0.954	2.89	83.2	1830	3700	35.2
		Apr-15		407	185	1.45	7.18	66.7	1600	3110 J	36.1
	MW-45	Apr-13		460	380	1.4	4.31	317	1980	4330	< 1.00
		Oct-13		535	344	1.77	4.3	391	1840	4060	< 0.500
		Apr-14		524	441	0.877	4.12	348	2130	4640	< 0.150
		Nov-14		590	470	1.5	4.6	360	2000	4300	< 0.02
		Apr-15		605	1260	1.44	4.47	346	2580	5300 J	< 0.0200
		Oct-15		610	454	1.37	5.02	376	2910	4660	0.0290 J
	MW-53	Apr-13		284	107	1.2	1.06	103	1080	2570	< 1.00
		Apr-14		290	95.4	0.827	0.935	87.6	1190	2060	< 0.150
		Apr-15		348	1010	0.922	1.16	104	1290	2810 J	34.5
	MW-54A	Apr-13		347	212	0.947	0.302	66.5	621	1950	< 1.00
		Oct-13		355	224	1.27	0.393	74.9	657	2060	1.66
		Apr-14		354	211	0.6	0.275	69.2	666	1800	< 0.150
		Nov-14		370	190	1.2	0.38 J	74	680	1900	0.85 J
		Apr-15		318	192	1.1	0.276 J	62.9	712	2080 J	0.45
		Oct-15		356	210	1.1	0.33 J	70.2	796	2140	4.32 J
	MW-54B	Apr-13		345	176	< 0.500	1.16	48.8	747	2050	< 1.00
		Apr-15		307	166	0.613	0.767 J	48	752	1890 J	0.0276 J
	MW-55	Apr-13		596	337	1.37	1.08	235	2460	4620	7.65
		Oct-13		519	327	1.6	0.835	214	2280	4450	5.25
		Apr-14		560	357	1.14	0.926	233	2670	5100	9.61
		Apr-14	FD	573	445	1.1	0.882	231	2600	5360	9.43
		Nov-14		610	190	2.4	0.9 J	130	2300	3600	6.5 J
		Apr-15		627	266	1.88	0.692 J	167	2940	4910 J	15.5
		Oct-15		411	216	1.85	0.756 J	166	2300	4000	5.57

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
NCL	MW-56	Apr-13		546	328	0.961	2.14	223	1890	3780	< 1.00
		Oct-13		483	226	1.16	1.91	203	1860	3750	1.04
		Apr-14		559	365	0.639	1.88	237	1840	4320	2.32
		Nov-14		540	340	1.2	2.1	250	1900	3500	< 0.02
		Apr-15		485	927	1.11	1.9	272	1900	3640 J	1.28
		Oct-15		514	399	1.12	2.05	342	2490	4080	4.34
	MW-108	Apr-13		220	110	2.24	0.601	58.7	552	1870	< 1.00
		Oct-13		368	154	3.01	3.64	168	1280	3300	< 0.500
		Apr-14		316	101	1.58	1.07	89.3	1130	2820	< 0.150
		Nov-14		350	82	3.3	3.2	110	1200	2500	0.19
		Apr-15		289	78.8	2.52	1.5	76.8	962	2540 J	< 0.39
		Oct-15		298	77.5	2.3	1.31	88.9	1090	2530	< 0.197
	NCL-31	Apr-13		246	91.3	1	0.261	112	997	2320	< 1.00
		Oct-13		245	94.2	1.26	0.382	121	849	2110	< 0.500
		Apr-14		267	69.6	0.776	0.321	112	1030	2300	< 0.150
		Nov-14		380	160	1.4	0.43 J	150	1300	2600	0.11
		Apr-15		266	89.5	1.25	0.22 J	100	1240	2670 J	< 0.2
		Oct-15		392	129	1.2	0.418 J	125	2100	3220	< 0.197
	NCL-32	Nov-14		440	460	4.6	19	82	800	2000	0.57
		Apr-15		446	177	1.92	4.15 J	92.6	1050	2250	< 0.2
		Oct-15		540	329	1.57	4.98	97	1430	2280	< 0.197
	NCL-33	Apr-13		343	321	1.85	3.65	111	401	2010	< 1.00
		Oct-13		303	340	2.52	3.7	98.2	448	1820	< 0.500
		Apr-14		358	302	1.83	3.78	105	557	1920	< 0.150
		Nov-14		450	340	2.6	5	110	720	2100	< 0.02
		Apr-15		431	281	2.58	4.31 J	111	800	2280	< 0.0200
		Oct-15		419	404	2.49	4.86	119	847	2140	< 0.197
	NCL-34A	Oct-13		207	246	1.42	1.16	108	125	1450	< 0.500
		Nov-14		250	180	1.4	0.86 J	120	100	1200	< 0.02
		Apr-15		275	249	1.36	0.57 J	117	110	1490	< 0.2
		Oct-15		202	182	1.43	0.877 J	103	104 J	1250	0.284 J
	NCL-44	Apr-13		283	153	1.42	2.43	65.1	471	1780	< 1.00
		Oct-13		250	146	1.7	2.09	64.6	399	1810	< 0.500
		Apr-14		265	149	1.2	2.06	66	454	1720	< 0.150
		Nov-14		290	850	1.8	2.2	70	450	1500	< 0.02
		Apr-15		269	161	1.78	1.64 J	73.4	468	2510	< 0.2
		Oct-15		276	182	1.69	2.07	71.4	633	1890	< 0.197

Table 4 - Summary of Groundwater Analytical Data
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Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
NCL	NCL-49	Apr-13		397	117	0.553	0.737	126	1580	3190	5.16
		Oct-13		450	106	0.622	0.699	130	1490	2940	4.65
		Apr-14		430	104	0.501	0.625	116	1680	3000	5.21
		Nov-14		440	98	0.65	0.72 J	120	1500	2600	4.3
		Nov-14	FD	430	98	0.59	0.75 J	120	1700	2600	4.5
		Apr-15		377	109	1.64	0.552 J	105	1400	2840 J	4.53
		Apr-15	FD	380	395	0.531	0.589 J	105	1650	2850 J	4.5
		Oct-15		406	112	0.593	0.607 J	115	1770	2830	5.79
		Oct-15	FD	407	113	0.598	0.613 J	114	1800	2860	5.79
S Refinery	KWB-2R	Nov-14		330	160	1.2	1.2	200	1200	2600	< 0.02
		Apr-15		233	259	0.879	0.777 J	267	884	2450	< 0.2
		Oct-15		168	228	1.21	1.23	296	418	1970	< 0.197
	KWB-5	Oct-13		221	620	0.948	1.19	212	4.15	1690	< 0.500
		Nov-14		270	570	0.77	1	210	12	1500	0.2
		Apr-15		237	518	0.687	1.79	198	8.08	1500	< 0.0200
		Oct-15		228	575	0.853	1.6	203	6.81	1540	0.243 J
	KWB-6	Nov-14		260	240	0.8	0.2 J	150	330	1600	0.37
		Apr-15		212	305	0.366	0.22 J	193	16.2	1460	0.148
		Oct-15		229	265	0.935	0.181 J	144	264	1410	0.273 J
	MW-28	Apr-13		190	168	0.975	0.497	108	378	1680	< 1.00
		Oct-13		195	179	1.47	0.382	107	174	1420	< 0.500
		Apr-14		164	157	1.02	0.382	102	166	1560	< 0.150
		Nov-14		590	140	0.73	0.92 J	96	1300	3000	< 0.02
		Apr-15		439 J	160	1.59	0.685 J	89.5	1080	2760	< 0.39
		Oct-15		379	159	1.67	0.632 J	92.7	1060	3000	0.211 J
	MW-48	Nov-14		190	410	0.29	2.4	380	260	1800	< 0.02
		Apr-15		258 J	161	0.498	0.68 J	276	47.6	725	< 0.2
		Oct-15		186	391	0.644	2.61	355	235	1940	< 0.197
	MW-50	Apr-13		382	181	0.785	2.17	130	1230	2880	< 1.00
		Oct-13		399	191	0.958	2.58	131	1310	2720	< 0.500
		Apr-14		410	172	0.671	2.36	130	1300	2910	< 0.150
		Nov-14		450	200	0.83	2.3	160	1600	2800	< 0.02
		Apr-15		450	259	0.966	2.18	178	1680	2860	< 0.2
		Oct-15		403	226	0.899	2.29	175	1740	2770	2.61 J
	MW-52	Apr-13		171	287	1.83	0.321	289	944	2570	2.06
		Oct-13	FD	172	149	1.87	0.381	279	856	2250	2.09
		Oct-13		181	149	1.84	0.379	288	856	2270	2.17
		Apr-14		156	223	1.57	0.204	257	820	2580	1.19
		Apr-14	FD	161	225	1.51	0.186 J	218	821	2510	1.38
		Nov-14		190	150	1.5	0.3 J	320	990	2000	1.9
		Apr-15		168 J	158	1.88	0.252 J	267	832	3740	1.54
		Oct-15		196	144	1.76	0.242 J	285	998	2040	3.13

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
S Refinery	MW-65	Nov-14		260	470	0.72	0.89 J	290	310	1900	< 0.02
		Apr-15		147	382	1.21	0.783 J	257	< 0.0770	1410	0.0613 J
	MW-66	Apr-13		152	229	1.12	0.984	188	1.66	1160	< 1.00
		Oct-13		141	237	1.25	0.935	177	0.99	1100	< 0.500
		Oct-13	FD	146	237	1.3	0.936	184	0.841	1140	< 0.500
		Apr-14		151	209	1.12	0.785	180	< 0.200 B	1170	< 0.150
		Nov-14		140	150	1.2	1	160	0.51 J	990	< 0.02
		Apr-15		120	141	1.53	0.858 J	134	0.596 J	948	0.0292 J
		Oct-15		134	201	1.34	0.742 J	163	0.11 J	1090	< 0.197
	MW-99	Nov-14		170	180	0.42	3.9	170	140	1100	< 0.02
		Apr-15		48.7	33.4	0.328	5.3	23.9	41.3	267	0.789
		Oct-15		176	249	0.706	0.955 J	215	127	1390	< 0.197
	MW-101	Apr-13		175	242	1.24	0.565	145	191	1350	< 1.00
		Oct-13		201	238	0.985	0.5	158	171	1430	< 0.500
		Apr-14		209	217	0.779	0.504	153	161	1440	< 0.150
		Nov-14		280	230	1	0.81 J	150	340	1600	< 0.02
		Apr-15		188	201	0.708	0.485 J	141	188	1340	< 0.2
		Oct-15		188	236	0.993	0.483 J	138	206	1470	0.23 J
	MW-102	Nov-14		290	220	0.61	0.8 J	430	590	2200	< 0.02
		Apr-15		94.4	175	0.825	0.419 J	357	1.75 J	1470	0.0642 J
		Oct-15		193	219	1.13	0.683 J	385	296	1750	< 0.197
	MW-103	Apr-13		19.2	661	6.88	0.759	1120	82.2	2800	< 1.00
		Apr-14		24.5	1040	7.45	0.831	1420	< 10.0 B	3820	< 0.150
		Apr-15		192	7890	3.44	2.46 J	6710	19.6	12500	< 0.0200
	MW-104	Apr-13		264	104	1.64	6.85	89.8	863	1580	< 1.00
		Oct-13		247	124	2.22	8.35	108	798	1570	< 0.500
		Apr-14		232	86	2.26	5.06	95.7	690	1390	< 0.150
		Apr-14	FD	235	82.4	2.24	5.52	91.9	679	1440	< 0.150
		Nov-14		230	54	2.1	6	69	710	1300	< 0.02
		Nov-14	FD	230	54	1.8	6.3	67	800	1300	< 0.02
		Apr-15		208	31.4	1.67	4.73	42.7	856	1070	< 0.0200
		Apr-15	FD	207	31	2.12	4.63	42.3	679	1130	0.185
		Oct-15		169	21	2.01	4.92	38.6	510	912	< 0.197
		Oct-15	FD	170	21.6	2.07	4.86	40.3	473	925	< 0.197
	MW-105	Nov-14		660	37	0.96	7	29	1300	2400	< 0.02
		Apr-15		111	25.3	0.7 J	4.26	17.2	263	530	< 0.2
		Oct-15		148	13.4	0.33	4.41	12	297	664	0.221 J
	MW-106	Apr-13		330	151	0.901	1.08	129	1090	2550	< 1.00
		Oct-13		335	174	1.17	0.594	141	1010	2290	< 0.500
		Apr-14		400	160	1	1.9	195	1500	3350	< 0.150
		Apr-15		197	280	6.81	10.4	162	559	1400	22.3
		Oct-15		373	148	1.76	2.43	221	1790	3420	< 0.197

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
S Refinery	MW-107	Apr-13		140	280	1.34	0.695	70.2	< 0.500	1190	< 1.00
		Oct-13		130	298	1.55	0.795	68.6	0.57	1240	< 0.500
		Apr-14		144	261	1.2	0.562	75.2	< 0.200 B	1250	< 0.150
		Nov-14		230	300	1.7	0.73 J	83	160	1200	< 0.02
		Apr-15		160 J	291	1.54	0.583 J	73.1	27.1	1220	< 0.0200
		Oct-15		176	297	1.67	0.88 J	76.9	102	1390	< 0.197
	MW-109	Apr-13		87.4	464	1.51	0.69	515	228	2060	< 1.00
		Oct-13		77.9	349	1.53	0.577	516	270	1930	< 0.500
		Apr-14		92.9	393	1.26	0.634	465	237	1980	< 0.150
		Nov-14		280	270	2.4	1.3	490	920	2500	< 0.02
		Apr-15		192 J	261	2.04	0.929 J	406	931	2910	< 0.39
		Oct-15		181	232	1.81	0.862 J	438	950	2170	< 0.197
	MW-110	Apr-13		129	85.9	1.38	< 0.200	306	626	1750	< 1.00
		Oct-13		115	88.5	1.49	< 0.200	294	474	1490	< 0.500
		Apr-14		79	92.4	1.25	0.129 J	249	364	1260	< 0.150
		Nov-14		100	86	1.5	0.14 J	270	1100	1200	< 0.02
		Apr-15		107 J	93.8	1.64	0.244 J	244	283	1420	< 0.0200
		Oct-15		174	136	1.62	0.268 J	294	787	1680	< 0.197
	RA-313	Apr-13		166	14.8	0.699	1.11	16.4	389	824	< 1.00
		Apr-14		171	17.2	1.01	0.935		450	868	< 0.150
		Apr-15		150	19.1	0.914	1.04	17.8	605	808	< 0.0200
	RW-4	Apr-15		202	258	0.845	1.67	144	468	1710 J	< 0.0200
	RW-5R	Apr-15		4.82	260	0.965	0.461 J	189	0.376 J	565	< 0.0200
	RW-6	Apr-15		168	414	0.628	0.686 J	205	129	1650	0.0335 J
S RO Reject Field	MW-114	Feb-13			158	1.76			2200	3760	1.43 H
		Nov-13			422	1.37			3060	5390	< 1.00
		Apr-14		611	167	2.07	2.84	152	1920	3620	< 0.150
		Nov-14		620	200	2.2	2.7	130	2300	3400	0.36
		Apr-15		570 J	80.3	1.95	2.29	114	2140	3640	0.0752 J
		Oct-15		579	111	1.89	2.46	104	2250	2990	< 0.197
S RO Reject Field	MW-115	Feb-13			422	1.1			2790	4960	0.962 H
		Nov-13			428	1.36			3090	5370	< 1.00
		Apr-14		569	222	1.29	0.645	227	2470	4880	< 0.150
		Nov-14		690	500	1.5	0.72 J	340 V	3000	5700	< 0.02
		Apr-15		546 J	464	2.42	0.425 J	385	3510	6200	0.0333 J
		Oct-15		532	326	2.8	0.578 J	320	3640	4640	< 0.197
	MW-116	Feb-13			389	1.31			2250	3650	1.37 H
		Nov-13			331	1.61			2470	4570	0.457 J
		Nov-13	FD		331	1.51			2470	4210	0.487 J
		Apr-14		607	221	1.43	1.39	241	2160	4520	2.86
		Nov-14		580	240	1.7	1.6	230	2200	3700	0.74
		Apr-15		534 J	131	2.28	3.57	92.1	1800	3300	0.0753 J
		Oct-15		644	223	2.8	5.67	145	2280	3800	< 0.197

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
TEL	MW-49	Apr-13		177	376	1.05	1.76	322	450	2010	< 1.00
		Apr-13	FD	173	365	1.04	1.69	316	439	2180	< 1.00
		Apr-13		177	376	1.05	1.76	322	450	2010	< 1.00
		Oct-13		175	390	1.54	2.17	311	416	1940	< 0.500
		Apr-14		189	366	0.896	1.6	338	472	2280	< 0.150
		Nov-14		280	380	1.6	3.3	320	500	2100	< 0.02
		Apr-15		197	423	1.18	2.04	309	665	2340	< 0.2
		Oct-15		192	381	1.45	2.48	326	621	2260	< 0.197
	TEL-1	Apr-13		493	169	2.05	1.72	362	1770	3630	< 1.00
		Oct-13		383	257	2.62	1.37	413	1430	3260	< 0.500
		Apr-14		383	228	2	1.35	460	1380	3080	< 0.150
		Apr-14	FD	359	224	1.9	1.3	427	1370	3140	< 0.150
		Nov-14		600	150	3.1	1.9	340	1900	3600	< 0.02
		Apr-15		209	269	2.26	0.962 J	434	1230	2480	< 0.2
		Oct-15		479	195	2.54	1.92	374	2060	3390	< 0.197
	TEL-2	Apr-13		222	224	0.902	2.04	343	696	2590	< 1.00
		Oct-13		202	242	1.07	2.03	350	623	2600	< 0.500
		Apr-14		158	312	1.22	1.42	378	554	2340	< 0.150
		Nov-14		250	300	1.4	1.3	390	580	2400	< 0.02
		Apr-15		164	949	0.914	0.945 J	372	498 J	2390	< 0.2
		Oct-15		188	371	1.18	1.1	404	680	2460	< 0.197
	TEL-3	Apr-13		616	49.1	2.54	6.29	61.6	1410	2950	< 1.00
		Oct-13		592	39.6	3.39	7.79	36	1370	2720	< 0.500
		Apr-14		573	127	3.06	7.6	143	1320	2900	< 0.150
		Nov-14		710	50	3.7	6.6	49	1600	2900	< 0.02
		Apr-15		485	829	2.52	6.12	184	1330	2750	0.224 J
		Oct-15		550	66.4	2.95	6.85	74.7	1520	2960	< 0.197
	TEL-4	Apr-13		278	504	0.872	0.479	316	860	3360	< 1.00
		Oct-13		397	545	1.29	0.64	549	2040	4940	< 0.500
		Apr-14		332	588	0.429	0.575	565	1480	4480	< 0.150
		Nov-14		380	440	1.9	0.62 J	530	1800	4200	< 0.02
		Nov-14	FD	360	480	1.3	0.62 J	520	2100	4100	< 0.02
		Apr-15		301	1190	0.678	0.455 J	294	947	3200	< 0.2
		Apr-15	FD	289	535	0.69	0.411 J	281	1140	3300	< 0.2
		Oct-15		412	347	2.55	0.934 J	657	4000	7150	0.385 J
		Oct-15	FD	417	353	3.14	0.95 J	693	4040	6590	< 0.197

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Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
TMD	MW-8	Apr-13		469	424	1.99	2.12	408	2630	5220	9.43
		Oct-13		454	399	2.31	1.91	410	2590	4960	5.33
		Apr-14		486	383	1.78	2.05	388	2710	5060	5.2
		Apr-15		390	321	1.51	1.59	328	2940	4210	1.1
	MW-16	Apr-13		503	346	2.04	9.42	363	2000	4710	< 1.00
		Apr-14		531	422	2.79	8.99	388	2170	4020	0.269 J
		Apr-15		666	660	2.32	10.2	545	2670	4890	0.461
	MW-20	Apr-13		479	347	2.27	< 0.400	237	2730	5020	1.29
		Apr-14		505	457	2.11	0.416	249	2580	4900	6.74
		Apr-14	FD	487	440	1.72	0.419	247	2700	4840	6.5
		Apr-15		510	429	1.51	0.398 J	232	3490	4790	5.08
	MW-21	Apr-13		514	577	1.74	2.2	430	2830	5500	27.9
		Oct-13		529	522	2.08	1.87	449	2760	5580	19.3
		Oct-13	FD	562	524	2.08	1.74	475	2760	5550	17.5
		Apr-14		510	537	1.7	0.491	97.1	2970	5560	22.6
		Nov-14		600	450	2.4	1.9	430	2900	5200	17
		Apr-15		542	481	1.9	1.81 J	468	3210	5210	17
		Oct-15		530	550	1.75	2	436	3520	5190	16.5
	MW-25	Apr-13		325	776	1.36	3.7	469	1320	3120	< 1.00
		Apr-14		985	4440	0.635	6.8	1220	2060	11700	< 0.150
		Apr-15		896	6780	1.03	8.34	3710	5740	17000	0.0974 J
	MW-26	Apr-13		497	378	1.83	4.86	352	2580	4720	< 1.00
		Apr-14		718	953	2.16	6.01	662	4330	8280	0.252 J
		Apr-15		698	1130	1.15	5.42	704	5950	8660	0.268
	MW-27	Apr-13		350	139	1.44	9.67	139	1320	2420	< 1.00
		Apr-14		431	148	0.983	9.89	159	1600	2600	0.632 J
		Apr-15		607	246	0.928	11.2	128	2320	3640	0.703
	MW-46R	Apr-13		503	231	1.56	1.6	194	2150	4180	< 1.00
		Oct-13		566	232	1.66	0.86	214	2060	3890	< 0.500
		Apr-14		592	191	1.61	1.56	165	2120	4540	0.394 J
		Nov-14		650	290	1.9	2.3	170	2300	3800	< 0.02
		Apr-15		599	288	1.24	1.82	152	2590	3980	0.169
	MW-68	Apr-13		376	426	1.68	5.57	238	1380	3240	7.58
		Apr-14		375	299	1.79	4.84	207	1330	2920	5.1
		Apr-15		552	397	1.15	4.65	242	2610	4460	4.52
	MW-71	Apr-13		638	926	1.49	3.92	443	2590	6600	59.5
		Apr-13	FD	626	937	1.44	4.14	466	2610	6280	58.3
		Oct-13		656	1080	1.49	3.76	472	2790	6250	52.3
		Apr-14		558	887	1.39	4.15	399	2740	6280	53.6
		Apr-15		642	906	1.09	3.59	447	3150	6110	50.6
	MW-89	Apr-13		456	200	2.48	9.81	150	1530	2960	< 1.00
		Apr-14		542	248	2.4	10.5	188	2030	3360	1.34
		Apr-15		528	324	3.61	13.5	302	2200	3720	2.34

Table 4 - Summary of Groundwater Analytical Data
 2015 Annual Groundwater Report
 Navajo Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
Units:				mg/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/l	mg/l
CGWSL:				---	2.50E+02	1.60E+00	---	---	6.00E+02	1.00E+03	1.00E+01
CGWSL Source:					WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL
Area	Location	Date	Dup								
TMD	NP-1	Apr-13		477	486	1.83	5.64	366	2600	5040	12.9
		Oct-13									
		Apr-14		439	434	1.82	4.95	352	2560	4820	11.6
		Nov-14									
		Apr-15		473	436	2.06	3.53 J	451	2930	4450	8.41
		Oct-15									
	NP-2	Apr-13		517	379	1.7	1.63	258	2660	5160	1.74
	NP-6	Apr-13									
		Apr-15									
Upgradient	UG-1	Apr-13		466	132	0.62	1.62	79.8	1580	3090	7.8
		Apr-14		474	126	0.58	1.59	79.6	1720	2960	10.1
		Apr-15		455 J	133	0.865	1.11	84.6	1880	2920	14.4
	UG-2	Apr-13		331	137	1.16	2.52	123	1090	2410	4.44
		Apr-13	FD	338	136	1.13	2.52	117	1080	2400	4.59
		Apr-13		331	137	1.16	2.52	123	1090	2410	4.44
		Apr-14		403	97.1	1.14	1.75	104	1530	2660	3.77
		Apr-15		337 J	72.2	1.65	1.73	82.6	1080	1170	4.62
	UG-3R	Apr-13		270	20.9	0.561	1.57	42	785	1590	1.11
		Apr-14		422	46.8	0.492	1.65	56.9	1480	2340	2.26
		Apr-14	FD	389	46.8	0.496	1.53	53.6	1500	2400	2.2
		Apr-15		420 J	27.5	0.716	2.36	59.1	1450	1420	1.03

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Abbreviations	Definitions
X	Reported concentration equal to X was above the CGWSL.
X	Analyte was detected above the reporting limit at a concentration equal to X.
< x	Analyte was not detected at reporting limit equal to x. If the < x value is bolded, the reporting limit exceeded the CGWSL.
CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
DRO	diesel range organics
DRO-EP	diesel range organics reported from the wells located in the Evaporation Ponds area
Dup	duplicate sample indicator
FD	field duplicate sample
GRO	gasoline range organics
mg/L	milligrams per liter
MTBE	methyl tert-butyl ether
NMED TPH	New Mexico Environment Department Risk Assessment Guidance for Site Investigations and Remediation, February 2012, Table 6-2 TPH Screening Guidelines for Potable Groundwater
NMED TW	New Mexico Environment Department Risk Assessment Guidance for Site Investigations and Remediation, July 2015, Table A-1, Tap Water Screening Level
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
µg/L	micrograms per liter
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level from "Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites", November 2015
USEPA TW	United States Environmental Protection Agency Tap Water screening level from "Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites", November 2015
WQCC Dom	NMED Groundwater standard for domestic exposure taken from 20.6.2.3103.B
WQCC HH	NMED Groundwater standard for human health exposure taken from 20.6.2.3103.A
WQCC Irr	NMED Groundwater standard for irrigation exposure taken from 20.6.2.3103.C

Notes
Blank cell indicates analyte was not analyzed for during the indicated sampling event.
Anion (chloride, flouride and/or sulfate) data during the April 2015 event for wells MW-75, MW-76, MW-77, MW-78 and MW-83 was not adjusted for dilution due to laboratory error.

Lab Footnote	Definition
J	Indicates an estimated value.
U or "<"	The compound was analyzed for but not detected at the reporting limit shown.
*	LCS/LCSD recovery outside the control limit or RPD value outside the control limit.
B	Analyte was also detected in the associated method blank.
E	The sample concentration exceeds machine calibration.
H	The reported result is from a sample analyzed outside of Holding Time.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
R	The sample concnetration is rejected based on data validation.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Table 5 - Summary of Production from Recovery Trenches and Wells
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Recovery or Monitoring Well	Recovery Method	Volume of Water Recovered (gallons)					Volume of PSH Recovered (gallons)				
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2015	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2015
RW-1R	Automated Pump	-	-	-	4	4	-	-	-	-	-
RW-2R	Automated Pump	-	1	-	-	1	504	-	-	-	504
RW-4R	Automated Pump	-	-	-	-	-	-	-	-	-	-
RW-5R	Automated Pump	1	-	-	-	1	6,269	1,649	-	-	7,918
RW-6R	Automated Pump	1	-	-	-	1	8,486	1,222	1,130	-	10,838
RW-7	Automated Pump	-	1	-	16,550	16,551	-	-	480	149	629
RW-8R	Automated Pump	-	-	-	12,205	12,205	7,140	2,035	-	-	9,175
RW-12R	Automated Pump	-	1	-	-	1	2	7	-	-	9
RW-13R	Automated Pump	-	-	-	-	-	1	2,671	5	-	2,677
RW-14R	Automated Pump	-	-	-	-	-	1,835	388	5	-	2,228
RW-15	Automated Pump	-	-	-	-	-	249	3,416	4,069	3,390	11,124
RW-19	Automated Pump	-	-	-	-	-	1	5,353	5	2	5,361
RW-20	Automated Pump	558,515	871,386	771,222	639,191	2,840,314	-	1	-	-	1
RW-22	Automated Pump	-	-	-	-	-	2	12	3	-	17
TOTAL (rounded to nearest gallon):		558,517	871,389	771,222	667,950	2,869,078	24,489	16,754	5,697	3,541	50,481

Recovery Method

Automated Pump indicates that the recovery well is connected to the upgraded recovery system.

Figures



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