

GW - 014

MONITORING REPORT

**Interim Environmental
Status Report-
Hydrogeology**

October 6, 2010

Interim Environmental Status Report - Hydrogeology

**Navajo Refining Company, Lea Refinery
Lovington, New Mexico**

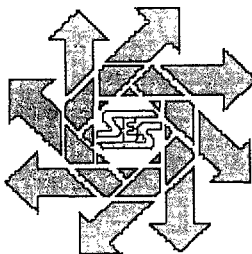
October 6, 2010

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I. Introduction

The Navajo Refining Company, Lea Refinery in Lovington, New Mexico operates under a Groundwater Discharge Plan (GW-014) issued by the New Mexico Oil Conservation Division (OCD). The location of the refinery is shown in Figure 1. The discharge plan addresses water and fluid discharges to the subsurface; spills and leaks to the ground surface; pits, ponds and below grade tanks and sumps; waste handling and other activities that have the potential to contaminate groundwater or adversely impact public health and the environment.

An Environmental Status Report was completed and submitted on November 6, 2009. The OCD required the report to update contaminant hydrogeology with emphasis on threats to the City of Lovington water supply from the facility. A 2009 monitoring report was presented to the agency and the City of Lovington in a meeting on October 8, 2009. The agency in an email dated October 22, 2009 evaluated the report as deficient in satisfying the permit conditions. Further communication with the agency extended the date for resubmittal of required information to November 6, 2009. Accordingly, on that date Navajo resubmitted the ESR together with separate information required by the agency.

The ESR report documented site lithology, proximity to City of Lovington and other water wells, groundwater conditions and the results of sampling conducted at the site during June 2009. The report also includes information on the area hydrogeology, the replacement of the original monitoring wells, lack of hydrocarbon product detected and possible reasons for such. Sections of that report on area hydrogeology and details of the monitor well replacement are not included in the current monitoring report.

Also submitted with the ESR was a separate document entitled "Hydrocarbon Release Investigation, Navajo Refining Company, Lea Refinery, Lovington, New Mexico." That report details investigation of spills and releases that were the subject of C-141 reports to the agency and included as an attachment to the Discharge Plan document. The status of each investigation was detailed including removal of affected soil, borehole drilling and results of soil analyses. The report provided recommendations as to further action.

The OCD responded to the submitted reports with a letter dated December 10, 2009, listing deficiencies with the submitted material and requiring additional investigation including further investigatory borings, installation of additional monitoring wells, mapping of pipelines and additional actions required to be taken to protect groundwater. Navajo has undertaken these tasks with most completed as will be described later in this report.

A condition of the discharge plan is that an annual monitoring report be submitted to the OCD by April 15th of each year. A copy of the report is also to be submitted to the City of Lovington. The information that is to be submitted with the report includes:

1. A description of the monitoring and remediation activities that occurred during the year including conclusions and recommendations.
2. Summary tables listing laboratory analytical results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted. Copies of the most recent year's laboratory data sheets supporting plots shall also be submitted.
3. Water table (piezometric) and/or potentiometric surface elevation iso-concentration maps utilizing static water level data shall be included in the annual report to assess local and/or regional ground water flow direction(s). A corrected water table elevation shall be determined from all wells containing phase-separated hydrocarbons. Map shall show all monitoring, recovery, PSH and City of Lovington water supply wells, pertinent site features (i.e., pipelines, effluent lines, etc.) and the direction and magnitude of the hydraulic gradient. All maps shall be to scale. Chemical iso-concentration maps of any contaminants exceeding water quality standards are required.
4. Plots of water table elevation vs. time for each ground water monitoring point from monitoring data is required to assess water table fluctuations and potential for PSH smear zone development or dormancy*.
5. Monthly and cumulative flow rates and volumes from PSH and recovery wells and the total recovered to date.
6. Product thickness maps from monitoring based on the thickness of Phases-Separated Hydrocarbons (PSH) or product on ground water in all refinery recovery and monitoring wells shall be included in the report. Maps shall include isopleths to the nearest 0.5 feet or iso-concentration lines to the nearest 10 ppb for organics, 10-100 ppm for metals, TDS, etc., for product and contaminants of concern detected during monitoring.
7. File this report in an acceptable electronic format along with hard copies to the City of Lovington and OCD Santa Fe.

The report was submitted to the agency on the required date with copies to the City of Lovington.

II. Background Information

In September 1995 and April 1996 monitor wells were installed at the refinery to determine groundwater conditions and to document impacts to groundwater from activities at the refinery. Originally ten (10) monitor wells were installed with all but one located in the vicinity of the refinery process area. Later four (4) additional wells were installed in areas where spills or overtopping of tanks were reported. Those incidents were reported to the OCD and follow up investigation conducted including soil sampling and auger borings. Where there was concern that groundwater may have been impacted, additional groundwater monitoring wells were drilled.

City of Lovington water wells surround the refinery to the southwest, west, northwest and to the east on the east side of NM Highway 18. The locations of the City's wells were

shown on Plate 1 of the ESR together with other wells with information on file with the NM Office of the State Engineer. The closest water well to the Refinery is LW-9 approximately 200 feet upgradient from the refinery's north east property boundary. Wells to the west of the refinery are located 2,400 feet (LW-12, 0.45 miles) or greater from the property fence. The distances to the west range from 2,400 feet to 4,600 feet (0.9 miles). To the east, the closest well (LW-3) is about 1,100 feet (0.2 miles) and the distance from the refinery ranges from 1,100 feet to 4,000 feet.

Water levels in the vicinity of the refinery are declining due to withdrawal of water for refinery use from wells on the property and from the City's water wells. The average yearly water level decline through 2004-05 for monitor wells in the refinery process area was about 1.2 feet per year. That increased during the time period 2005-2008 to 1.3-1.4 feet per year. However, measurements of the replacement wells from April to September 2009 show a possible loss of up to 2.4 feet per year. However, comparison of summer 2009 to summer 2010 water levels show an average decline of 1.5 feet per year.

Because of the accelerated decline in water levels, the monitor wells were generally completed with a saturated water thickness of 15 to 24 feet which would allow use for approximately 10 to 16 years at an average decline of 1.5 feet per year.

III. Area Hydrogeology

The late Tertiary age Ogallala Formation underlies the site. It is composed of calcareous sands, silts, clays and gravels. The near-surface Ogallala sediments are often cemented with calcium carbonate (caliche). The caliche generally decreases with depth and is negligible at depths greater than 35 to 50 feet below the surface.

The regional groundwater flow direction of the Ogallala aquifer is generally toward the southeast but locally may be impacted by pumping of large volume water wells used for municipal, industrial or agricultural purposes.

The lithology of the sediments directly beneath the site is generally surficial caliche underlain by silty sand and sand to depth of the monitor wells. Lower zones may include thin layers of sandstone of varying cementation.

A geologic cross section has been prepared using information from the first set of monitor wells installed in 1996* and from work performed by SESI. This work is being updated with borings drilled in May and June 2010 and will be presented in the final report.

* Soil and Groundwater Investigation and Remediation Work Plan, Lea Refinery, Lea County, New Mexico, October 7, 1996, by Geoscience Consultants, LTD., Midland, Texas.

IV. Work Performed

Installation of Additional Monitor Wells

At the direction of the OCD in their December 10, 2009 response to the ESR, Navajo drilled and installed fifteen (15) additional monitor wells in areas of the refinery which lacked coverage with the existing well placement. The well locations included placement on the four sides of the refinery plus additional interior locations to better define impacts from refinery operations together with possible impacts from previous and existing oil and gas well operations within and immediately adjacent to the refinery. The location of both the old and new wells is shown on Figure 2.

The fifteen wells were installed beginning with MW-18 in mid-May and continued through June 6 with the installation of MW-29. Drilling of MW-18 commenced on May 10 with an air rig with a 10-foot core barrel for collection of undisturbed samples as the bit advanced. Unfortunately, the occasional layers of caliche and sandstone blocked the barrel and gave unsatisfactory sample results. Further, the method was beyond the capability of the rig below 80 feet when it lost circulation. The rig was changed to mud rotary at that point and an additional 40 feet of hole was drilled. At that point mud circulation was lost and the hole was secured on May 14.

On May 18 a replacement driller, WDC Exploration and Wells of Peralta, NM arrived on site with a CME-85 hollow stem auger to complete this well. Due to problems with lost circulation, no suitable lithology was available below 80 feet though a cuttings sample was obtained for analysis at 90 feet.

Following completion of this well, work proceeded to drill and install wells in the following order: MW-19, MW-20, MW-21, MW-28, MW-15, MW-17, MW-16, MW-22, MW-23, MW-24, MW-26, MW-25, MW-27 and MW-29. The staggered schedule was used to avoid drilling in sensitive areas on weekends when, except for an operations crew, most refinery workers were off. Soil samples were collected at 10-foot intervals from the surface to the groundwater as requested by the OCD and analyzed by the Environmental Division of the ALS Laboratory Group in Houston, Texas. Analyses were performed for BTEX, TPH and chlorides. PID readings were measured in the field.

All wells were completed with two-inch diameter PVC pipe and a pre-packed three-inch diameter screen for reduction of fine-grained sediments in the well. The wells were developed in early July using a GeoTech Reclaimer air-driven stainless steel bailer powered with a small pancake compressor. Borehole lithology and borehole and well logs will be provided in the follow-up final report.

On July 19 the new wells were surveyed by a professional licensed New Mexico surveyor. Sampling of groundwater in the new and existing wells and the three refinery water wells was performed from August 11 to 25 using WQCC protocols including dedicated sample tubing, decontamination of the pump between wells, and proper sample

storage and chain-of-custody requirements. Samples were also sent to ALS for analysis. Results of the water level measurements and water quality are also provided later in the report.

Drilling of Exploratory Boreholes

Concurrent with drilling of the monitor wells, exploratory boreholes were advanced in two areas of the refinery identified by OCD as needing investigation. The first area was in the vicinity of the Crude Manifold Area located in the vicinity of MW-2. Drilling started on June 2 using the same drill rig, a CME-85, as was drilling the monitor wells. Samples were again collected every ten feet and submitted to ALS Laboratory Group for analysis. Boreholes were drilled from the surface to the water table with the final sample taken from several feet in the saturated zone. Boreholes were plugged back to the surface starting with a mixture of Quikgrout for the zone immediately above the water table followed by Holeplug bentonite, well hydrated.

V. Results of the Investigatory Drilling

Soil Boring Results for Groundwater Monitoring Wells

A summary table of soil analytical results of borings drilled for the 15 new monitor wells is shown in Table 1. All TPH values (GRO, DRO and MRO plus the total TPH) are shown if any one of the three is above its detection level. Also shown are chloride levels for respective TPH detections, water saturated core values, and chloride values above 30.0 mg/Kg. If no chloride level from non-saturated sediments was above 30 mg/Kg detected, then the highest chloride level in the interval is shown. The final report will contain a full table of soil analytical results.

The table shows some elevated TPH levels in MW-18 and MW-23. Levels in MW-18 down to about 60 feet may be due to issues having to do with the use of the air driven core barrel. As there was contamination at the surface, there may have been cross-contamination between the tools and the sampling zones. Also, the boring was drilled over three separate days and remained open (but covered) from May 11 until May 13 when the hollow stem auger began sampling. The May 13 sample from MW-18 at 90 feet was from cuttings returned to the surface and is unlikely to represent an undisturbed sample.

MW-23 is located near LA-10 which is a shut-in injection well. Whether there are some impacts to MW-23 from that well or now plugged well LPU 92 is unknown.

MW-19 has elevated chloride levels over most all intervals. That may be a consequence of a release from active upgradient injection wells LSAU 13 or LPU 33, or a nearby covered reserved pit.

Oil and gas well records for wells nearby these three monitor wells will be researched to see if there is an obvious potential source for the observed TPH or chloride levels.

Soil Boring Results for Borings at the Crude Manifold Area

Soil boring results for the four borings in the vicinity of crude manifold are shown on Table 2 and the results summarized on Figure 3. It appears that a chloride source is near the location of CSB-4 as chlorides are elevated from the surface to 80 feet with the maximum concentration of 2,190 mg/Kg detected at 40 feet. Additionally, there is elevated TPH (660 mg/Kg) at 20 feet. The source of either is unknown as the current tank holds crude oil and not produced water or a mixture.

Soil Boring Results for Borings at the Wastewater Separator Area

Soil boring results for the eleven borings in the vicinity of wastewater separator area are shown on Table 3 and the results also summarized on Figure 3. Chlorides are not significantly elevated however TPH and BTEX are elevated in borings WSB 2/8 to 90 feet, WSB-4 to 90 feet, and WSB-5 to 90 feet. The 90 foot depth is likely the elevation of the water table at the time the leak occurred and it spread laterally when it reached the capillary fringe. Water level measurements show that depth to groundwater was at 90 feet in 1995.

The elevated levels of TPH and BTEX (not including benzene) in WSB-2/8*, WSB-4 and WSB-5 indicate that hydrocarbons remain in the soil pores and a remediation option should be considered, either active or passive remediation depending on air quality regulations and requirements. Benzene was not detected in any of the WSB BTEX samples and significantly elevated contamination was in the 20 to 60 foot range at those three locations. Though some samples had severe staining and a very strong hydrocarbon odor, no saturation was observed in the samples.

VI. Groundwater Measurement and Sampling

Water Level Measurements

Water levels in the vicinity of the refinery are declining due to withdrawal of water for refinery use from wells on the property and from the City's water wells. A detailed site plan showing the location of the existing and recently installed refinery monitoring wells is provided in Figure 2.

Water levels of all wells were measured on August 11, 2010. The monitoring wells at the Lea Refinery were gauged for depth to groundwater and total depth using a Solinst Model 101 water level meter. Monitor wells where phase-separated hydrocarbons may have been present were measured using an oil/water interface probe (Solinst Model 122).

* Soil boring 2 was drilled to 40 feet and then plugged as there was significant staining and odor. However after discussion it was decided to continue to drill provided no free product was encountered. The boring could not be reentered due to collapse and settling and a second boring WSB-8 was drilled to the southeast of immediately adjacent to WSB-2.

Groundwater Sampling

The following activities were conducted to measure groundwater levels and document the groundwater quality conditions in accordance with the OCD Groundwater Discharge Plan. The locations of the referenced wells are shown on Figure 2.

- Measured depth to groundwater in monitoring wells MW-1 through MW-29 and RW-1 prior to sampling. This was in addition to single-day measurements performed August 11, 2010.
- Measured free product thickness in monitoring wells RW-1, MW-1 and MW-7. No free product or even a hydrocarbon sheen was noted.
- Collected semi-annual groundwater samples from all monitor wells plus RW-1.
- Collected groundwater samples from the refinery's North, South and East water wells.

Groundwater measurements were scheduled to be made in mid-July. A series of purge pump failures delayed sampling commencement until mid-August. A Geotech SS Geosub 12V DC Sampling Pump was obtained that enabled low flow sampling pursuant to guidelines published by the New Mexico Environment Department. These included measuring drawdown while purging until measured parameters stabilize.

Low flow purging was performed using the above described pump dedicated vinyl tubing. The pump was decontaminated with Alconox detergent and clean water between samples. Groundwater parameters of conductivity, temperature and pH were measured during purging operations.

Samples taken for benzene, toluene, ethylbenzene, and total xylene (BTEX) and other volatiles analyses were transferred into air-tight, septum-sealed, 40-milliliter (ml) glass volatile organic analyte (VOA) sample vials with zero head space and preserved with HCl. Samples were placed in an ice-filled cooler immediately after collection and shipped to ALS Laboratory Group in Houston, Texas. The samples were analyzed for BTEX using EPA method SW8260. Chain of custody (COC) forms documenting sample identification numbers, collection times, and delivery times to the laboratory were completed for each set of samples.

Samples collected for semi-volatiles analysis were placed in one-liter amber glass bottles, placed on ice and shipped to the laboratory for analysis by EPA method SW8270.

Samples collected for metals and anion/Total Dissolved Solids (TDS) analyses were collected in separate containers. Samples were collected as total metals and shipped to the laboratory overnight for laboratory filtration with a 0.45 micron filter and then preserved with HNO₃. Samples for mercury were not field filtered. Samples for anion/TDS analysis were collected in liter plastic bottles and placed on ice. The samples were analyzed using methods EPA methods SW6020 for metals, and methods E300, SM2320B, and M2540C, respectively, for anions, alkalinity and TDS.

VII. Groundwater Elevations, Flow Direction, and Hydraulic Gradient

Groundwater elevations for 2009 and the current year are summarized in Table 4. A water table elevation map (potentiometric surface) and directions of groundwater flow for August 2010 is shown in Figure 4.

The additional monitor wells installed in May and June 2010 provide much expanded groundwater elevation coverage at the refinery. It shows that contrary to the assumed general direction of groundwater flow to the southeast, groundwater movement is toward a very large groundwater cone of depression centered at the North and South water wells. Based on the water level data, water is moving to the refinery from all four directions and not moving from the refinery to the City of Lovington water wells as has been postulated.

Comparison was made of water levels taken in January 2010 and summer 2009 with those taken in August. For the 15 wells measured at that time, the average semi-annual decline was -0.62 feet. The smallest change from readings taken in January occurred in MW-13 (-0.04 feet) and the largest was in MW-3 (-1.53).

The average annual decline was -1.56 feet. The smallest change was -1.08 feet in MW-6 and the largest -2.17 feet in MW-3. That the greatest semi-annual and annual change occurred in MW-3 is not surprising as until this summer, it was the closest monitor well to the pumping wells.

The groundwater flow direction varies within the refinery. In the area of the process area it remains to the southeast with a gradient of 0.0036 ft/ft. In the area of the asphalt rack sump (between new MW-22 and MW-23), it is relatively flat with a gradient of 0.0024 in a westerly direction toward the pumping water wells. In the area of the south tank farm (100 series tanks) the direction of flow is northerly with a gradient of 0.0020.

However, closer to the north and south water wells the gradient is radial toward them and becomes increasingly steeper as you get closer to them. In the area of new MW-19 the gradient steepens to 0.015 ft/ft.

In the area of the east well, no cone was noticed due to its recent addition to the refinery (drilled in October 2005) and slight artistic license was used to show a potential impact on the map. It will be interesting to measure and plot declines with the winter round of readings to determine changes in the area of the new monitor wells and in the area of the pumping wells.

VIII. Distribution of Hydrocarbons in Groundwater

Phase Separated Hydrocarbon (PSH) was previously present in the vicinity of the wastewater separator (Figure 2). Measurements made subsequent to installation in the spring of 2009 of the new monitor wells show no PSH and no hydrocarbon sheen. These measurements were made in June, July, September and October 2009, and January, February, April and August 2010. Drilling of the new monitor wells did not detect free

phase hydrocarbons in either drill core samples or in water quality samples taken subsequent to drilling. Some dissolved phase hydrocarbons are present in the existing wells as discussed below. No dissolved-phase volatiles were found in the new wells.

Analytical results for BETX and other SW 8260 volatiles in groundwater for the current sampling event are summarized in Table 5. SW8260 naphthalene and 8270 total naphthalenes are also shown. Constituents having detectable concentrations are shown in yellow with concentrations above the New Mexico Water Quality Control Commission (WQCC) standards highlighted in boldface type. The laboratory reports and COC documentation for samples obtained by SESI are included in Appendix C.

Current and past concentrations of volatile hydrocarbon are shown in Table 3. Based on the most recent analytical data for samples collected by SESI in August 2010, the distribution of volatile hydrocarbons at the Lea Refinery is described below:

- Volatile hydrocarbon concentrations were below the laboratory detection limit and below WQCC standards in 11 of the 15 existing monitoring wells (includes RW-1 as a monitor well) and all 15 of the new monitor wells. Volatile hydrocarbons were also absent from the three refinery water wells. The method reporting limit for BTEX and most other volatile constituents is 0.0050 mg/L; the reporting limit for total xylenes is 0.015 mg/L.
- Volatile hydrocarbons were detected only in wells MW-6 (downgradient from the wastewater separator), in MW-11 directly downgradient from the refinery process area and in MW-13, generally downgradient from MW-11, and in the recovery well at the wastewater separator, RW-1.
- Benzene in MW-11 decreased from 0.10 mg/L in June 2009 and 0.20 mg/L in January 2010 to 0.078 mg/L. However, benzene was detected in MW-13 for the first time at a concentration of 0.016 mg/L. Of those volatiles detected, only benzene in MW-11 and MW-13 exceeded the relevant WQCC standard (0.010 mg/L). The benzene concentration map is shown in Figure 5
- Ethylbenzene was reported in MW-6 and MW-11 but at levels 50 and 35 times, respectively, lower than the WQCC standard of 0.75 mg/L. Xylenes 41 times lower than the standard of 0.62 mg/L were seen in recovery well RW-1.
- Naphthalene and/or methyl-naphthalene was detected in wells MW-6, the well directly downgradient from the wastewater separator, and in MW-11. Both concentrations (0.0034 mg/L and 0.00036 mg/L, respectively) are well below the standard of 0.03 mg/L. A map showing locations of BTEX and naphthalene detections is shown in Figure 6.
- Other semi-volatiles detected in MW-6 included acetophenone; there is not a listed water quality standard for this constituent or the various phenols and phthalates.

Phenol was not detected in MW-1, MW-6 and RW-1; however various phenolic derivatives were detected in MW-6.

- Various semi-volatile phthalates were seen in all samples including those from the water wells except for MW-28. The likely source in the monitor wells was the PVC casing or the dedicated tubing. The low levels in the water wells were likely laboratory contamination. Phthalates or phthalate esters, are esters of phthalic acid and are mainly used as plasticizers (substances added to plastics to increase their flexibility, transparency, durability, and longevity). The January detection of the semi-volatile caprolactam in many samples was not repeated with the current results. That it was also not detected in June of 2009 leads to the conclusion that it is a laboratory artifact and not present in the refinery groundwater.

IX. Sampling Results for Inorganic Constituents

Sampling was conducted for major cations and anions, total dissolved solids (TDS) and WQCC metals. The results of the sampling are shown in Table 6. The results are highlighted below:

- Results of major anion and TDS sampling in August showed exceedances of the chloride and TDS standards in four existing wells (MW-2, MW-6, MW-8, and MW-13), four new monitor wells (MW-17, MW-19, and MW-23), and the south water well. At MW-29 chloride in the sample exceeded the standard but not in the duplicate sample. Neither of the two TDS samples exceeded the standard leading to the conclusion that the reported elevated chloride concentration at MW-29 is in error. Figures 7 and 8 present the chloride and TDS concentrations at the refinery and figure 9 shows the fluoride concentrations.
- Analytical results of sampling for WQCC metals showed no detections in excess of WQCC standards except for manganese and iron, which are usually indicators of a reducing chemical environment due to lack of oxygen the groundwater in the vicinity of the wells. The iron and manganese concentrations are shown in Figure 10. Manganese exceeded the groundwater standard of 0.20 mg/L in existing wells MW-1, MW-6, MW-11 and MW-13. This is the first detection of manganese in MW-13 and it is coincident with the first low level detection of benzene this sampling. New well MW-18 also has a slightly elevated manganese concentration. Though detected in MW-11, iron exceeds the WQCC standard only in Mw-6. These wells also have or had dissolved phase hydrocarbon impacts which most likely have changed the groundwater environment in the immediate proximity of the wells from aerated to anoxic conditions. Manganese and iron in the environment commonly become soluble in the absence of oxygen.

A chloride concentration map of the refinery is shown in Figure 7. The map shows chloride concentrations exceeding 200 mg/L in the vicinity of the refinery process area. Within the process area, Navajo has replaced and tested the wastewater sewer system and

the oil desalter sumps. However, wells MW-2 and MW-15 with concentrations approaching or slightly exceeding the standard of 250 mg/L are upgradient of the process area but downgradient from several older oil and gas production areas located just to the northwest and outside the refinery boundary.

The changes in chloride and total dissolved solids concentrations at both MW-1 and MW-6 are puzzling. These values have declined and in the case of MW-1 significantly so from sampling conducted in January 2010 (Table 6). Adjacent wells MW-7 and RW-1 (located within 15-20 of MW-1) do not show similar fluctuations in concentration. All wells were completed in the same manner and are screened over the same interval. Upgradient wells MW-4 and MW-16 do not show increased chloride concentrations nor fluctuations. It may be possible that the concentrations are artifacts from the former wastewater leak as no other explanation is readily available. However, groundwater temperatures which were elevated in the past due to proximity to hot water from the now eliminated leak are now nominal for the area excluding a current leak as a cause.

MW-13, with chloride concentration of 604 mg/L and TDS of 2,210 mg/L, is downgradient from a now-inactive oil and gas production site within the refinery itself. Both concentrations have increased from the June 2009 sampling (Table 6). In recent years the two wells, LSAU 9 and LPU 22, injected waste salt water and could be a potential source of contamination if the well casings had diminished integrity. Both of these wells are now plugged. Unfortunately, in addition to elevated chloride and TDS the most recent sampling detected benzene in the well as described above.

Information on these two oil wells and possible integrity problems was researched and summarized in Appendix D of the November 6 ESR. The south well, Lovington Paddock Unit #22, reported a tubing leak in 1997 downhole at a depth of approximately 3,120 feet. The tubing joint and adjacent joints were replaced and it passed an integrity test. However, it appears from aerial photographs presented in the ESR that the drilling mud pit was located in the vicinity of MW-13 which could be a source for chlorides seen in the well.

Several of the new monitor wells show elevated level of chloride and TDS. These wells include upgradient well MW-15, off-gradient well MW-17 and two others located within the refinery water wells cone of depression: MW-19 and MW-23. All of these are located in proximity to active, shut-in or plugged oil and gas wells as shown on Figure 2. MW-23 is downgradient from well LA-10 which show its current status as a shut-in injection well.

Lastly, the south water well continues to have just under 500 mg/L of chloride and nearly 1,800 mg/L of total dissolved solids. The refinery itself is not believed to be the source of the chlorides detected. There are numerous oil and gas wells on and in the vicinity of the refinery. Though the OCD has banned pits in the area since at least 1967 older discharges to unlined impoundments had the potential to migrate to groundwater and cause elevated levels of chloride and TDS.

The groundwater flow direction at the water wells is radial inward. At south well location oil and gas production facilities exist to the south and southwest of the refinery property. There are two nearby active injection wells (LSAU 13 and LPU 33, Figure 2).

MW-19 and MW-20 were drilled to determine if these wells may have been the cause for the elevated chloride and TDS concentrations seen in the south well. MW-20 has a chloride and TDS concentration of 169 and 868 mg/L respectively and the concentrations in MW-19 are 469 and 1,650 mg/L. The direction of groundwater flow is north toward the water well and the two injection wells are in between and directly in line with flow from the monitor wells to the water well. The conclusion is that there is a great likelihood that the elevated concentrations of chloride and TDS seen in the water well are from one or both of the injection wells or their associated buried reserve pits.

This and possible leaks in saltwater injection wells are likely the explanation for the elevated chloride and TDS concentrations seen in the vicinity of the process area and at the south water well.

X. Groundwater Temperature

Measurement of groundwater temperature in the vicinity of the wastewater separator has shown elevated levels as high as 28.4° centigrade (83.1° Fahrenheit) in MW-9 in August 2001. The elevated temperatures compared to normal summer temperatures of 20-22° C (68-72° F) were considered evidence of a leak in the wastewater system as the separator contained hot water.

Navajo completed emptying, cleaning and sealing the wastewater separator system in 2003. The sumps were sandblasted and coated with oil and waterproof sealants and static tested. Sampling subsequent to that time showed a decline in temperatures though measurement was difficult as water levels declined and wells dried up.

Sampling of the new wells conducted in June 2009 and in January and August 2010 show no significant difference in temperatures between monitor wells. In August 2010 upgradient well MW-4 had a temperature of 22.4° C (72.3° F) at the conclusion of purging. MW-1, MW-7 and RW-1 located adjacent to the separator had temperatures of 22.9° C (73.2° F), 24.8° C (76.6° F) and 22.4° C (72.3° F) after purging. These results lead to the conclusion that the retrofitting of the wastewater separator performed by Navajo has stopped leakage of fluids from the unit.

XI. Oil Recovery

Hydrocarbon product had been detected in groundwater in the vicinity of the wastewater separator at the Lea Refinery since installation of the first monitor wells in September 1995. A recovery well and an air sparge/soil vapor extraction system was installed at the facility in November 1996. The system included seven air sparge/vapor extraction wells and a Xitech oil recovery pump in RW-1 to remove the source of contamination. A total

of 160 gallons of free product was recovered along with 8,870 lbs of TVHC (Total volatile hydrocarbons). The system was shut down in September 1999 because the most recent BTEX and TVHC samplings showed concentrations below detection limits and product had been mostly removed from the monitor wells.

However in 2000-2001 product again increased in the two nearby monitor wells (located within 15-20 feet of the recovery well). The Xitech pump recovered product from the RW-1 which was transferred to a storage container for further recycling to the refinery. The total volume recovered is somewhat in excess of 250 gallons (6 barrels).

In 2001 the depth to product varied depending on pump operation. Product thickness varied from less than 0.01 feet to 4.5 feet. Depth to water was 96.5 feet. However, a downgradient monitor well about 50 feet away on the other side of the wastewater separator did not detect measurable hydrocarbon and very little dissolved phase hydrocarbon.

By 2007 the water table in the vicinity of the recovery well had declined so that product and water in the two monitor wells (MW-1 and MW-7) was not detected (i.e. they were dry). In 2008 the water and product levels in the recovery well (RW-1) had declined so that the installed recovery pump could no longer recover product. At the time of the last measurements of the old wells on March 17, 2009, MW-1 and MW-7 remained dry and in recovery well RW-1 product was 0.6 feet thick and there was slightly over 3 feet of fluid in the well.

Groundwater measurements made in April, June, July, September and October 2009, and January, February, April and August 2010 have not shown any hydrocarbon product in any of the three replacement wells. These measurements are shown Table 1.

A plausible reason for the absence of product in the wells is that the leak had been stopped and what was seen in the old wells was oil from the leak seeping through the intervening sandy material to the water table. By drilling new wells adjacent to the old ones, oil in the formation was removed in the drilling process and what is left there is mainly held by capillary forces and little or none will drain by gravity. The design of the wells is such that any further leaks will be detected during quarterly measurements to allow early remedial action and product recovery.

XII. Potential Receptors

Neither hydrocarbon product nor a dissolved phase hydrocarbon plume has been detected from the wastewater separator area during the current investigation. However, if a plume was detected, the nearest receptor is the refinery's north water supply well located about 1,000 feet downgradient of the release previously described in Section XI above. The water supply is monitored semi-annually for drinking water parameters but is not used for drinking water.

Previously locations of the City of Lovington water supply wells were supplied with the

November 2009 ESR (Plate 1). The nearest well, Lovington #9 is about 1,330 feet from MW-11 and 1,430 feet from the area of the wastewater separator release. This well was not considered a potential receptor as localized groundwater flow is southeast toward the Navajo pumping water wells. The other identified water supply wells were not presently considered potential receptors based on their distance from the refinery and current information on groundwater flow direction. This information and the conclusion that conditions at the refinery are not impacting city water wells was reinforced when the expanded groundwater map was prepared following installation of the new monitor wells at the refinery.

XII. Conclusions

- With the exception of MW-11 and MW-13, benzene concentrations in all wells are below method reporting levels and below WQCC and EPA drinking water standards. The August 2010 level of 0.078 mg/L in MW-11 is reduced from levels seen in 2009 and January 2010 but is still 8 times the WQCC standard. The detection in MW-11 and probably MW-13 (0.016 mg/L) is likely due to past releases in the refinery process area. Navajo is retrofitting the process units during refinery expansion and to comply with other provisions of the discharge plan to prevent spills and leaks.
- No hydrocarbon product has been found or hydrocarbon sheens detected in the replacement monitor wells adjacent to the wastewater separator. Groundwater temperatures in these wells are comparable to temperatures in monitor wells away from the area. This leads to the conclusion that the retrofitting completed by Navajo at the separator seven years ago has solved the problem of wastewater fluids and oil leaking to the groundwater. Remaining oil may be present in the vadose zone and this possibility is to be investigated with a boring program scheduled for later this spring.
- Minor dissolved concentrations of ethylbenzene and various naphthalene compounds were found in the three replacement wells located adjacent to the northwest side of the wastewater separator, and in the downgradient monitor well on the southeast side. However concentrations of these constituents are well below WQCC standards.
- No volatile organic compounds were found in the refinery water supply wells. Chloride and TDS in the south well exceed WQCC standards. Because water from the wells is used by the refinery for hand washing, showering, etc., the wells are now monitored for BTEX on at least a semi-annual basis.
- Based on the groundwater flow map and sample results, it appears that the elevated concentrations of chloride and TDS in monitor wells and the south water well are from non-refinery sources. The likely source of chlorides in the process area is migration from upgradient oil production areas northwest of the refinery boundary. The likely source of chlorides in MW-13 is the now inactive oil production/injection well (including a possible drilling pit) site southeast of MW-11. The likely source of chlorides in the south water well is from oil production areas to the south and southwest of the refinery boundary.

XIII. Ongoing Investigatory Work

The following work is being performed in response to discharge plan requirements and in response to OCD's December 10, 2009 letter.

1. Mapping and identification of 23 active, inactive and plugged and abandoned oil and gas production and injection wells within the refinery and on the periphery. This work has been completed and a map showing the location and status of these well is included with this report (Figure 2).
2. Mapping and identification of all pipelines within the facility and on the periphery including crude lines, product lines and effluent lines operated by Navajo, Holly or other entities. This work has been completed and maps are in final preparation.
3. Mapping and identification of all Navajo and Holly Energy Partners incoming and outgoing crude and product lines through the City of Lovington's well field. Included are pipelines of other operators that enter, leave or pass through the refinery. This work has been completed and maps are in final preparation. .
4. Obtaining and reviewing City of Lovington water well records for drilling and well completion information. This work is partially complete. Records of most water wells to the north and west of the refinery have been located. Records of the three water supply wells at the refinery were located and were included with the annual report submitted in April. As a result of water levels from the newly added monitor wells showing a cone of depression centered on the refinery water wells and no current groundwater movement outside of the refinery boundaries (Figure 4), it is requested that additional work on this OCD request be suspended.
5. Obtaining and reviewing pumping volumes, rates and pumping schedules for all pumping water wells previously identified. This work has not yet begun. As a result of water levels from the newly added monitor wells showing a cone of depression centered on the refinery water wells and no current groundwater movement outside of the refinery boundaries (Figure 4), it is requested that this work be limited to the three refinery water wells. Also aquifer testing of the aquifer at the refinery has been rescheduled for late October/early November.
6. Field checking of non-City of Lovington water wells shown on Plate 1 of the Environmental Status Report. This work has not yet begun and as a result of the conclusion in #5 above it is requested that it be dropped.
7. Locating and drilling the additional monitor wells requested by OCD in their December 10 letter has been completed and the work summarized in this report. Final lithologic boring and well completion logs and geologic cross-sections will be finalized for inclusion in the later report.

8. Similarly, work to define possible contamination at the crude manifold and wastewater separator areas has been completed. This work will be reviewed to determine what remedial actions may need to be taken to remove/stabilize remaining soil hydrocarbons. A work plan will be prepared and submitted to the agency that will address the remediation requirements and proposal remedial actions.
9. The next semi-annual monitoring event will be scheduled for early January 2011. OCD and the City of Lovington will be notified two weeks in advance of the date of the sampling.

XIV. Report Tables and Figures

Table 1. Soil Boring Summary Results, Monitor Wells

Well ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride ³ (RL 4.99)
MW-15	105 (w)	ND	ND	ND	<5.1	ND	10.6
MW-16	20	0.32	ND	ND	0.32	ND	ND
MW-16	50	ND	ND	ND	<5.1	ND	12.8
MW-17	30	ND	ND	ND	<5.1	ND	150
MW-17	40	ND	ND	ND	<5.1	ND	120
MW-17	50	ND	ND	ND	<5.1	ND	79.0
MW-17	60	ND	ND	ND	<5.1	ND	40.3
MW-17	100	ND	ND	ND	<5.1	ND	47.9
MW-18	0-0.5	ND	100	32	132	ND	12.4
MW-18	9-10	ND	6.9	ND	6.9	ND	16.9
MW-18	27-29	ND	3.9	6.8	10.7	ND	18.0
MW-18	39-40	ND	ND	3.8	3.8	ND	52.1
MW-18	49-50	ND	ND	ND	<5.1	ND	50.3
MW-18	60-61	ND	6.0	58	64	ND	42.7
MW-18	69-70	ND	ND	ND	<5.1	ND	70.5
MW-18	79-80	ND	ND	ND	<5.1	ND	44.1
MW-18*	90	ND	20	130	150	0.0056	25.7
MW-19	10	ND	ND	12	12	ND	1,620
MW-19	20	ND	ND	ND	<5.1	ND	153
MW-19	30	ND	ND	ND	<5.1	ND	268
MW-19	40	ND	ND	ND	<5.1	ND	144
MW-19	50	ND	ND	ND	<5.1	ND	119
MW-19	60	ND	ND	ND	<5.1	ND	99.2
MW-19	70	ND	ND	ND	<5.1	ND	107
MW-19	80	ND	ND	ND	<5.1	ND	41.8
MW-19	90	ND	ND	ND	<5.1	ND	4.77
MW-19	100	ND	ND	ND	<5.1	ND	206
MW-20	95	ND	ND	5.1	<5.1	ND	6.89
MW-21	10	ND	ND	ND	<5.1	ND	7.76
MW-21	95 (w)	ND	ND	ND	<5.1	ND	27.6
MW-22	20	ND	ND	ND	<5.1	ND	88.5
MW-23	10	ND	4.2	54	58	ND	6.70
MW-23	30	ND	2.8	31	34	ND	4.98
MW-23	40	ND	ND	11	11	ND	10.3
MW-23	50	ND	ND	6.1	6.1	ND	10.1
MW-23	60	ND	2.0	17	19	ND	12.6
MW-23	70	ND	ND	7.3	7.3	ND	10.9
MW-23	80	ND	ND	5.4	5.4	ND	13.7
MW-23	100 (w)	ND	ND	ND	<5.1	ND	91.9
MW-24	10	ND	ND	ND	<5.1	ND	17.3
MW-25	70	ND	ND	ND	<5.1	ND	8.43
MW-25	110 (w)	ND	ND	ND	<5.1	ND	37.9
MW-26	10	ND	ND	5.3	5.3	ND	ND
MW-26	110 (w)	ND	ND	ND	<5.1	ND	37.9

Table 1. Soil Boring Summary Results, Monitor Wells

Well ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride ³ (RL 4.99)
MW-27	10	ND	ND	130	130	ND	6.51
MW-27	40	ND	ND	30	<5.1	ND	11.2
MW-27	105 (w)	ND	ND	ND	<5.1	ND	28.0
MW-28	20	ND	ND	ND	<5.1	ND	34.9
MW-28	30	ND	ND	ND	<5.1	ND	32.1
MW-28	40	ND	ND	ND	<5.1	ND	31.0
MW-28	50	ND	ND	ND	<5.1	ND	34.3
MW-29	10	ND	ND	ND	<5.1	ND	110.0
MW-29	105 (w)	ND	ND	ND	<5.1	ND	26
* MW-18 borings drilled May 10-11 except MW-18, 90 feet, drilled May 13.							
1 - Sum of GRO+DRO+MRO using EBA method 8015M							
2 - Reporting limit for total xylenes is 0.0030 mg/L. No benzene was found in any soil sample.							
3 - Highest chloride level shown; saturated core level shown; above 30.0 mg/Kg all chloride results shown.							
w - sample taken from water saturated core							

Table 2. Soil Boring results, Crude Manifold Area

Boring ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride (RL 4.99)
CSB-1	1-2	ND	6.7	27	34	ND	208
CSB-1	10	ND	ND	ND	<5.1	ND	38.0
CSB-1	20	ND	ND	ND	<5.1	ND	11.5
CSB-1	30	ND	ND	ND	<5.1	ND	11.1
CSB-1	40	ND	ND	ND	<5.1	ND	12.2
CSB-1	50	ND	ND	ND	<5.1	ND	15.8
CSB-1	60	ND	ND	ND	<5.1	ND	15.0
CSB-1	70	ND	ND	ND	<5.1	ND	14.7
CSB-1	80	ND	ND	ND	<5.1	ND	19.0
CSB-1	90	ND	ND	ND	<5.1	ND	7.18
CSB-1	100	ND	ND	ND	<5.1	ND	6.63
CSB-1	110 (w)	ND	ND	ND	<5.1	ND	14.6
CSB-2	10	ND	ND	ND	<5.1	ND	6.14
CSB-2	20	ND	ND	ND	<5.1	ND	7.19
CSB-2	30	ND	ND	ND	<5.1	ND	6.28
CSB-2	40	ND	ND	ND	<5.1	ND	8.42
CSB-2	50	ND	ND	ND	<5.1	ND	6.83
CSB-2	60	ND	ND	ND	<5.1	ND	6.99
CSB-2	70	ND	ND	ND	<5.1	ND	6.85
CSB-2	80	ND	ND	ND	<5.1	ND	15.1
CSB-2	90	ND	ND	ND	<5.1	ND	12.7
CSB-2	100	ND	ND	ND	<5.1	ND	7.52
CSB-2	110 (w)	ND	ND	ND	<5.1	ND	22.1
CSB-3	10	ND	ND	ND	<5.1	ND	7.12
CSB-3	20	ND	ND	ND	<5.1	ND	5.65
CSB-3	30	ND	ND	ND	<5.1	ND	7.14
CSB-3	40	ND	ND	ND	<5.1	ND	10.4
CSB-3	50	ND	ND	ND	<5.1	ND	7.68
CSB-3	60	ND	ND	ND	<5.1	ND	8.61
CSB-3	70	ND	ND	ND	<5.1	ND	8.12
CSB-3	80	ND	ND	ND	<5.1	ND	8.34
CSB-3	90	ND	ND	ND	<5.1	ND	7.83
CSB-3	100	ND	ND	ND	<5.1	ND	6.14
CSB-3	110 (w)	ND	ND	ND	<5.1	ND	26.5
CSB-4	5	0.36	84	98	182	0.0120	163
CSB-4	10	ND	ND	ND	<5.1	ND	523
CSB-4	20	ND	240	320	560	ND	1,880
CSB-4	30	ND	19	32	51	ND	1,660
CSB-4	40	ND	ND	ND	<5.1	ND	2,190
CSB-4	50	ND	ND	ND	<5.1	ND	1,300
CSB-4	60	ND	ND	ND	<5.1	ND	1,130
CSB-4	70	ND	ND	ND	<5.1	ND	986
CSB-4	80	ND	ND	ND	<5.1	ND	222
CSB-4	90	ND	ND	ND	<5.1	ND	8.43
CSB-4	100	ND	ND	ND	<5.1	ND	5.93
CSB-4	110 (w)	ND	ND	ND	<5.1	ND	84.1
1 - Sum of GRO+DRO+MRO using EBA method 8015M							
2 - Reporting limit for total xylenes is 0.0030 mg/L. No benzene was found in any soil sample.							
w - sample taken from water saturated core							

Table 3. Soil Boring results, Wastewater Separator Area

Boring ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride (RL 4.99)
WSB-1	10	ND	ND	ND	<5.1	ND	34.3
WSB-1	20	ND	ND	ND	<5.1	ND	59.2
WSB-1	30	ND	ND	ND	<5.1	ND	7.82
WSB-1	40	ND	ND	ND	<5.1	ND	37.0
WSB-1	50	ND	ND	ND	<5.1	ND	25.4
WSB-1	60	ND	ND	ND	<5.1	ND	6.70
WSB-1	70	ND	ND	ND	<5.1	ND	ND
WSB-1	80	ND	ND	ND	<5.1	ND	8.56
WSB-1	90	ND	ND	ND	<5.1	ND	ND
WSB-1	100	ND	ND	ND	<5.1	ND	5.74
WSB-1	110 (w)	ND	ND	ND	<5.1	ND	33.7
WSB-2	10	ND	ND	ND	<5.1	ND	6.21
WSB-2	20	ND	2.2	ND	2.2	ND	9.37
WSB-2	30	1.5	210	110	322	0.0130	14.0
WSB-2	40 (TD)	4.0	810	260	1,074	0.148	15.7
WSB-3	10	ND	ND	ND	<5.1	ND	ND
WSB-3	20	ND	ND	ND	<5.1	ND	ND
WSB-3	30	ND	ND	ND	<5.1	ND	ND
WSB-3	40	ND	ND	4.2	<5.1	ND	ND
WSB-3	50	ND	ND	ND	<5.1	ND	6.57
WSB-3	60	ND	ND	ND	<5.1	ND	10.9
WSB-3	70	ND	ND	ND	<5.1	ND	11.9
WSB-3	80	ND	ND	ND	<5.1	ND	12.2
WSB-3	90	ND	ND	ND	<5.1	ND	43.8
WSB-3	100	ND	ND	ND	<5.1	ND	40.0
WSB-3	110 (w)	ND	ND	ND	<5.1	ND	13.7
WSB-4	10	ND	ND	ND	<5.1	ND	ND
WSB-4	20	270	1,600	690	2,560	17.8	5.66
WSB-4	30	300	1,000	400	1,700	51.6	7.53
WSB-4	40	470	2,700	800	3,970	30.4	14.0
WSB-4	50	340	2,600	810	3,750	53.0	22.6
WSB-4	60	250	3,300	1,200	4,750	16.3	23.2
WSB-4	70	67	2,800	1,200	4,067	3.4	16.5
WSB-4	80	150	3,500	1,100	4,750	8.85	27.2
WSB-4	90	5.1	380	210	595	0.017	11.6
WSB-4	100	ND	24	23	47	ND	5.71
WSB-4	110 (w)	ND	2.3	ND	2.3	ND	9.61
WSB-5	10	53	190	130	373	0.332	4.96
WSB-5	20	140	480	13	633	19.8	27.0
WSB-5	30	110	2,100	810	3,020	12.0	7.7
WSB-5	40	400	5,100	1,800	7,300	100.3	17.2
WSB-5	50	610	4,800	2,000	7,410	37.4	23.7
WSB-5	60	0.62	430	200	631	0.0087	15.2
WSB-5	70	ND	5.0	ND	5.0	ND	17.2
WSB-5	80	ND	69	35	104	ND	17.5
WSB-5	90	20	210	110	340	0.32	26.4
WSB-5	100	ND	93	52	145	ND	14.1
WSB-5	110 (w)	ND	ND	ND	<5.1	ND	ND

Table 3. Soil Boring results, Wastewater Separator Area

Boring ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride (RL 4.99)
WSB-6	10	ND	ND	ND	<5.1	ND	67.3
WSB-6	20	ND	ND	ND	<5.1	ND	65.8
WSB-6	30	ND	ND	ND	<5.1	ND	19.1
WSB-6	40	ND	ND	ND	<5.1	ND	42.0
WSB-6	50	ND	ND	ND	<5.1	ND	47.9
WSB-6	60	ND	ND	ND	<5.1	ND	58.0
WSB-6	70	ND	ND	ND	<5.1	ND	50.7
WSB-6	80	ND	ND	ND	<5.1	ND	55.2
WSB-6	90	ND	ND	ND	<5.1	ND	39.2
WSB-6	100	ND	ND	ND	<5.1	ND	35.2
WSB-6	110 (w)	ND	ND	ND	<5.1	ND	26.6
WSB-7	10	ND	ND	ND	<5.1	ND	12.5
WSB-7	20	ND	ND	ND	<5.1	ND	20.3
WSB-7	30	ND	ND	ND	<5.1	ND	14.0
WSB-7	40	ND	5.6	15	20.6	ND	21.8
WSB-7	50	ND	3.3	10	13.3	ND	21.1
WSB-7	60	ND	4.2	11	15.2	ND	22.2
WSB-7	70	ND	ND	3.8	3.8	ND	25.2
WSB-7	80	ND	7.3	12	19.3	ND	27.3
WSB-7	90	ND	64	76	140	ND	30.9
WSB-7	100	ND	3.8	7.3	11.1	ND	28.1
WSB-7	110 (w)	ND	6.4	8.9	15.3	ND	17.5
WSB-8	10	ND	ND	ND	<5.1	ND	5.32
WSB-8	20	ND	2.2	ND	2.2	ND	35.2
WSB-8	30	43	950	370	1,363	4.0	14.7
WSB-8	40	19	860	<340	879	2.17	62.2
WSB-8	50	ND	ND	ND	<5.1	ND	49.4
WSB-8	60	ND	2.2	ND	2.2	ND	22.9
WSB-8	70	ND	ND	ND	<5.1	ND	55.0
WSB-8	80	ND	ND	ND	<5.1	ND	69.1
WSB-8	90	1.1	350	<85	351	0.0214	16.4
WSB-8	100	0.075	8.1	ND	8.2	ND	10.0
WSB-8	110 (w)	ND	ND	ND	<5.1	ND	33.4
WSB-9	10	ND	ND	ND	<5.1	ND	ND
WSB-9	20	ND	ND	ND	<5.1	ND	71.2
WSB-9	30	ND	ND	ND	<5.1	ND	ND
WSB-9	40	ND	ND	ND	<5.1	ND	71.2
WSB-9	50	ND	ND	ND	<5.1	ND	15.4
WSB-9	60	ND	ND	ND	<5.1	ND	69.1
WSB-9	70	ND	ND	3.6	3.6	ND	99.3
WSB-9	80	ND	ND	ND	<5.1	ND	9.84
WSB-9	90	ND	ND	ND	<5.1	ND	9.56
WSB-9	100	ND	ND	ND	<5.1	ND	ND
WSB-9	110 (w)	ND	ND	ND	<5.1	ND	29.2

Table 3. Soil Boring results, Wastewater Separator Area

Boring ID	Boring Depth (feet)	Concentration Units: mg/Kg					
		GRO (RL 0.050)	DRO (RL 1.7)	MRO (RL 3.4)	TPH concentration ¹	Total BTEX ² (RL <0.0010)	Chloride (RL 4.99)
WSB-10	10	ND	ND	ND	<5.1	ND	20.3
WSB-10	20	ND	ND	ND	<5.1	ND	43.4
WSB-10	30	ND	ND	ND	<5.1	ND	34.0
WSB-10	40	ND	2.2	ND	2.2	ND	116
WSB-10	50	ND	2.4	ND	2.4	ND	47.7
WSB-10	60	ND	ND	ND	<5.1	ND	78.1
WSB-10	70	ND	ND	ND	<5.1	ND	58.2
WSB-10	80	ND	ND	ND	<5.1	ND	61.0
WSB-10	90	ND	ND	ND	<5.1	ND	57.5
WSB-10	100	ND	ND	ND	<5.1	ND	77.4
WSB-10	110 (w)	ND	ND	ND	<5.1	ND	ND
WSB-11	10	ND	ND	ND	<5.1	ND	20.5
WSB-11	20	ND	ND	ND	<5.1	ND	12.7
WSB-11	30	ND	ND	ND	<5.1	ND	17.2
WSB-11	40	ND	ND	ND	<5.1	ND	30.1
WSB-11	50	ND	ND	ND	<5.1	ND	46.6
WSB-11	60	ND	6.3	ND	6.3	ND	30.7
WSB-11	70	ND	8.7	ND	8.7	ND	34.6
WSB-11	80	ND	3.8	ND	3.8	ND	38.6
WSB-11	90	0.68	15	ND	16.1	0.043	22.0
WSB-11	100	ND	3.8	ND	3.8	0.030	16.9
WSB-11	110	ND	ND	ND	<5.1	ND	5.20
1 - Sum of GRO+DRO+MRO using EBA method 8015M							
2 - Reporting limit for total xylenes is 0.0030 mg/L. No benzene was found in any soil sample.							
w - sample taken from water saturated core							

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

Monitor Well, Depth Below TOC (feet)	Elevation Top of Casing (TOC, feet)	Measure- ment Date	Depth to Product (feet)	Depth to Water Below TOC (feet)	Corrected Depth to Water (feet)	Corrected Water Level Elev. (feet)	Change from previous reading (ft)
MW-1	3,838.40	04/30/09	--	106.35	106.35	3,732.05	--
129.16		06/10/09	--	106.49	106.49	3,731.91	-0.14
		06/19/09	--	106.57	106.57	3,731.83	-0.08
		07/02/09	--	106.74	106.74	3,731.66	-0.17
		07/24/09	--	106.83	106.83	3,731.57	-0.09
		09/24/09	--	107.31	107.31	3,731.09	-0.48
		10/27/09	--	107.44	107.44	3,730.96	-0.13
		01/13/10	--	107.57	107.57	3,730.83	-0.13
		04/01/10	--	107.51	107.51	3,730.89	0.06
		08/11/10	--	108.09	108.09	3,730.31	-0.58
Note: Replacement well, drilled April 2009.							
MW-2	3,837.35	06/22/09	--	104.32	104.32	3,733.03	--
126.42		01/13/10	--	105.44	105.44	3,731.91	-1.12
		08/11/10	--	105.97	105.97	3,731.38	-0.53
Note: Replacement well, drilled April 2009.							
MW-3	3,831.65	06/18/09	--	102.65	102.65	3,729.00	--
130.42		01/13/10	--	103.29	103.29	3,728.36	-0.64
		08/11/10	--	104.82	104.82	3,726.83	-1.53
Note: Replacement well, drilled April 2009.							
MW-4	3,839.89	06/16/09	--	106.79	106.79	3,733.10	--
128.03		01/13/10	--	107.72	107.72	3,732.17	-0.93
		08/11/10	--	108.19	108.19	3,731.70	-0.47
Note: Replacement well, drilled April 2009.							
MW-5	3,819.15	06/16/09	--	90.84	90.84	3,728.31	--
117.93		01/13/10	--	92.02	92.02	3,727.13	-1.18
		08/11/10	--	92.67	92.67	3,726.48	-0.65
Note: Replacement well, drilled April 2009.							
MW-6	3,838.16	06/18/09	--	106.64	106.64	3,731.52	--
129.71		07/24/09	--	106.92	106.92	3,731.24	-0.28
		09/24/09	--	107.44	107.44	3,730.72	-0.52
		10/27/09	--	107.55	107.55	3,730.61	-0.11
		01/13/10	--	107.64	107.64	3,730.52	-0.09
		02/02/10	--	107.69	107.69	3,730.47	-0.05
		04/01/10	--	107.65	107.65	3,730.51	0.04
		08/11/10	--	108.00	108.00	3,730.16	-0.35
Note: Replacement well, drilled April 2009.							

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

Monitor Well, Depth Below TOC (feet)	Elevation Top of Casing (TOC, feet)	Measure- ment Date	Depth to Product (feet)	Depth to Water Below TOC (feet)	Corrected Depth to Water (feet)	Corrected Water Level Elev. (feet)	Change from previous reading (ft)
MW-7	3,838.42	04/30/09	--	106.37	106.37	3,732.05	--
129.57		06/10/09	--	106.48	106.48	3,731.94	-0.11
		06/19/09	--	106.68	106.68	3,731.74	-0.20
		07/02/09	--	106.75	106.75	3,731.67	-0.07
		07/24/09	--	106.84	106.84	3,731.58	-0.09
		09/24/09	--	107.33	107.33	3,731.09	-0.49
		10/27/09	--	107.46	107.46	3,730.96	-0.13
		01/13/10	--	107.60	107.60	3,730.82	-0.14
		02/02/10	--	107.61	107.61	3,730.81	-0.01
		04/01/10	--	107.52	107.52	3,730.90	0.09
		08/11/10	--	108.10	108.10	3,730.32	-0.58
Note: Replacement well, drilled April 2009.							
MW-8	3,839.98	06/18/09	--	109.37	109.37	3,730.61	--
132.34		01/13/10	--	110.47	110.47	3,729.51	-1.10
		08/11/10	--	111.05	111.05	3,728.93	-0.58
Note: Replacement well, drilled April 2009.							
MW-9	3,835.22	06/16/09	--	104.58	104.58	3,730.64	--
129.21		01/13/10	--	105.61	105.61	3,729.61	-1.03
		08/11/10	--	106.37	106.37	3,728.85	-0.76
Note: Replacement well, drilled April 2009.							
MW-10	3,833.66	06/18/09	--	102.57	102.57	3,731.09	--
128.47		01/13/10	--	103.51	103.51	3,730.15	-0.94
		08/11/10	--	104.31	104.31	3,729.35	-0.80
Note: Replacement well, drilled April 2009.							
MW-11	3,839.56	06/20/02	--	99.93	99.93	3,739.63	--
117.50		09/17/02	--	100.63	100.63	3,738.93	-0.70
		12/19/02	--	100.50	100.50	3,739.06	0.13
		03/28/03	--	99.74	99.74	3,739.82	0.76
		06/20/03	--	100.76	100.76	3,738.80	-1.02
		09/15/03	--	101.51	101.51	3,738.05	-0.75
		04/30/04	--	102.31	102.31	3,737.25	-0.80
		02/21/05	--	103.80	103.80	3,735.76	-1.49
		06/28/05	--	104.33	104.33	3,735.23	-0.53
		09/30/05	--	104.60	104.60	3,734.96	-0.27
		12/29/05	--	104.81	104.81	3,734.75	-0.21
		04/10/06	--	105.12	105.12	3,734.44	-0.31
		07/06/06	--	105.61	105.61	3,733.95	-0.49
		01/26/07	--	106.63	106.63	3,732.93	-1.02
		03/27/07	--	106.80	106.80	3,732.76	-0.17
		07/13/07	--	106.94	106.94	3,732.62	-0.14
		09/12/07	--	107.22	107.22	3,732.34	-0.28
		12/31/07	--	106.74	106.74	3,732.82	0.48
		03/26/08	--	106.81	106.81	3,732.75	-0.07

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

Monitor Well, Depth Below TOC (feet)	Elevation Top of Casing (TOC, feet)	Measure- ment Date	Depth to Product (feet)	Depth to Water Below TOC (feet)	Corrected Depth to Water (feet)	Corrected Water Level Elev. (feet)	Change from previous reading (ft)
MW-11		06/13/08	--	107.40	107.40	3,732.16	-0.59
		09/24/08	--	108.76	108.76	3,730.80	-1.36
		12/29/08	--	108.57	108.57	3,730.99	0.19
		03/17/09	--	107.91	107.91	3,731.65	0.66
		06/18/09	--	108.65	108.65	3,730.91	-0.74
		01/13/10	--	109.81	109.81	3,729.75	-1.16
		08/11/10	--	110.16	110.16	3,729.40	-0.35
MW-12	3,822.73	06/20/02	--	84.20	84.20	3,738.53	--
100.56		12/21/02	--	85.21	85.21	3,737.52	-1.01
		03/28/03	--	85.35	85.35	3,737.38	-0.14
		06/20/03	--	85.51	85.51	3,737.22	-0.16
		09/15/03	--	86.13	86.13	3,736.60	-0.62
		11/02/03	--	86.57	86.57	3,736.16	-0.44
		04/30/04	--	87.40	87.40	3,735.33	-0.83
		02/21/05	--	88.42	88.42	3,734.31	-1.02
		06/28/05	--	88.76	88.76	3,733.97	-0.34
		09/30/05	--	89.12	89.12	3,733.61	-0.36
		12/29/05	--	89.31	89.31	3,733.42	-0.19
		04/10/06	--	89.55	89.55	3,733.18	-0.24
		07/06/06	--	90.03	90.03	3,732.70	-0.48
		01/26/07	--	90.06	90.06	3,732.67	-0.03
		03/27/07	--	90.10	90.10	3,732.63	-0.04
		07/13/07	--	91.66	91.66	3,731.07	-1.56
		09/12/07	--	92.01	92.01	3,730.72	-0.35
		12/31/07	--	92.17	92.17	3,730.56	-0.16
		03/26/08	--	92.39	92.39	3,730.34	-0.22
		06/13/08	--	92.59	92.59	3,730.14	-0.20
		09/24/08	--	93.21	93.21	3,729.52	-0.62
		12/29/08	--	93.59	93.59	3,729.14	-0.38
		03/17/09	--	93.75	93.75	3,728.98	-0.16
		06/16/09	--	93.83	93.83	3,728.90	-0.08
		01/13/10	--	94.78	94.78	3,727.95	-0.95
		08/11/10	--	95.67	95.67	3,727.06	-0.89
MW-13	3,837.06	04/30/04	--	101.41	101.41	3,735.65	--
119.68		02/21/05	--	103.09	103.09	3,733.97	-1.68
		06/28/05	--	103.48	103.48	3,733.58	-0.39
		09/30/05	--	103.80	103.80	3,733.26	-0.32
		12/29/05	--	104.41	104.41	3,732.65	-0.61
		04/10/06	--	104.59	104.59	3,732.47	-0.18
		07/06/06	--	104.94	104.94	3,732.12	-0.35
		01/26/07	--	106.41	106.41	3,730.65	-1.47
		03/27/07	--	106.47	106.47	3,730.59	-0.06
		07/13/07	--	106.93	106.93	3,730.13	-0.46
		09/12/07	--	107.19	107.19	3,729.87	-0.26
		12/31/07	--	106.71	106.71	3,730.35	0.48

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

Monitor Well, Depth Below TOC (feet)	Elevation Top of Casing (TOC, feet)	Measure- ment Date	Depth to Product (feet)	Depth to Water Below TOC (feet)	Corrected Depth to Water (feet)	Corrected Water Level Elev. (feet)	Change from previous reading (ft)
MW-13		03/26/08	--	107.02	107.02	3,730.04	-0.31
		06/13/08	--	107.19	107.19	3,729.87	-0.17
		09/24/08	--	108.56	108.56	3,728.50	-1.37
		12/29/08	--	108.71	108.71	3,728.35	-0.15
		03/17/09	--	108.36	108.36	3,728.70	0.35
		06/16/09	--	108.58	108.58	3,728.48	-0.22
		01/13/10	--	109.68	109.68	3,727.38	-1.10
		08/11/10	--	109.72	109.72	3,727.34	-0.04
MW-14	3,823.03	04/30/04	--	87.46	87.46	3,735.57	--
105.04		02/21/05	--	88.48	88.48	3,734.55	-1.02
		06/28/05	--	88.80	88.80	3,734.23	-0.32
		09/30/05	--	89.14	89.14	3,733.89	-0.34
		12/29/05	--	89.34	89.34	3,733.69	-0.20
		04/10/06	--	89.63	89.63	3,733.40	-0.29
		07/06/06	--	90.08	90.08	3,732.95	-0.45
		01/26/07	--	91.02	91.02	3,732.01	-0.94
		03/27/07	--	91.18	91.18	3,731.85	-0.16
		07/13/07	--	91.68	91.68	3,731.35	-0.50
		09/12/07	--	92.02	92.02	3,731.01	-0.34
		12/31/07	--	92.25	92.25	3,730.78	-0.23
		03/26/08	--	92.43	92.43	3,730.60	-0.18
		06/13/08	--	92.64	92.64	3,730.39	-0.21
		12/29/08	--	93.60	93.60	3,729.43	-0.96
		03/17/09	--	93.84	93.84	3,729.19	-0.24
		06/16/09	--	93.92	93.92	3,729.11	-0.08
		01/13/10	--	94.80	94.80	3,728.23	-0.88
		08/11/10	--	95.67	95.67	3,727.36	-0.87
MW-15	3,840.19	08/11/10	--	106.94	106.94	3,733.25	--
121.68							
MW-16	3,838.20	08/11/10	--	106.18	106.18	3,732.02	--
119.61							
MW-17	3,831.43	08/11/10	--	101.65	101.65	3,729.78	--
115.92							
MW-18	3,825.05	08/11/10	--	108.54	108.54	3,716.51	--
119.36							
MW-19	3,823.97	08/11/10	--	102.35	102.35	3,721.62	--
113.60							
MW-20	3,824.58	08/11/10	--	97.75	97.75	3,726.83	--
111.82							

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

Monitor Well, Depth Below TOC (feet)	Elevation Top of Casing (TOC, feet)	Measure- ment Date	Depth to Product (feet)	Depth to Water Below TOC (feet)	Corrected Depth to Water (feet)	Corrected Water Level Elev. (feet)	Change from previous reading (ft)
MW-21	3,820.26	08/11/10	--	94.06	94.06	3,726.20	--
108.31							
MW-22	3,821.82	08/11/10	--	95.62	95.62	3,726.20	--
110.80							
MW-23	3,825.58	08/11/10	--	100.49	100.49	3,725.09	--
115.10							
MW-24	3,830.50	08/11/10	--	104.04	104.04	3,726.46	--
118.14							
MW-25	3,830.77	08/11/10	--	106.46	106.46	3,724.31	--
121.66							
MW-26	3,833.18	08/11/10	--	106.22	106.22	3,726.96	--
121.33							
MW-27	3,837.27	08/11/10	--	109.00	109.00	3,728.27	--
124.07							
MW-28	3,833.44	08/11/10	--	103.72	103.72	3,729.72	--
118.42							
MW-29	3,835.55	08/11/10	--	105.80	105.80	3,729.75	--
120.42							
RW-1	3,838.48	04/30/09	--	106.45	106.45	3,732.03	--
129.29		06/10/09	--	106.59	106.59	3,731.89	-0.14
		06/19/09	--	106.61	106.61	3,731.87	-0.02
		07/02/09	--	106.82	106.82	3,731.66	-0.21
		07/24/09	--	106.92	106.92	3,731.56	-0.10
		09/24/09	--	107.42	107.42	3,731.06	-0.50
		10/27/09	--	107.53	107.53	3,730.95	-0.11
		01/13/10	--	107.67	107.67	3,730.81	-0.14
		02/02/10	--	107.69	107.69	3,730.79	-0.02
		04/01/10	--	107.60	107.60	3,730.88	0.09
		08/11/10	--	108.18	108.18	3,730.30	-0.58
Note: Replacement well, drilled April 2009.							
Notes:							
1. Monitoring wells MW-1 through MW-7 installed September 1995; plugged and redrilled April 2009.							
2. Monitoring wells MW-8 through MW-10 installed March and April 1996; plugged and redrilled April 2009.							
3. Monitoring wells MW-6R, MW-11, MW-12 installed April and May 2002; MW-6R plugged April 2009.							
4. Monitoring wells MW-13 and MW-14 installed January 2004.							
5. Elevation survey of new and existing wells August 7, 2009. Earlier water level information corrected to current survey.							
6. Monitoring wells MW-15 through MW-29 installed May-June 2010.							
7. Elevation survey of wells MW-15 through MW-29 July 13, 2010.							

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

Monitor Well	Sample Date	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Total Naphthalene (8260, mg/L)	Total Naphthalene (8270, mg/L)	Other volatiles? (see notes)	Other semi-volatiles? (see notes)	Type?	Aceto-phenone (mg/L)
NM WQCC Groundwater Standards:												
MW-1	06/19/09	0.010	0.75	0.75	0.62	--	0.03	0.03	--	--	--	--
	01/19/10	<0.0050	0.012	<0.0050	0.031	<0.0050	<0.0050	<0.0020	Yes	Yes	Phthalates, phenol	<0.00020
	08/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00106	No	Yes	Phthalates, caprolactam	<0.00020
MW-2	06/22/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/19/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/16/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, phenol	<0.00020
MW-3	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
(duplicate)	08/19/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-4	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/13/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/19/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-5	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-6	06/18/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.0075	0.0041	Yes	Yes	Phthalates, phenols, others	0.021
	06/18/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.0074	0.0040	Yes	Yes	Phthalates, phenols, others	0.021
	02/02/10	<0.0050	0.013	<0.0050	<0.015	<0.0050	0.0099	0.0232	Yes	Yes	Phthalates, phenols, others	0.089
	08/19/10	<0.0050	0.015	<0.0050	<0.015	<0.0050	<0.0050	0.0034	Yes	Yes	Phthalates, phenols, others	0.014
MW-7	06/19/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	Yes	Yes	Phthalates	<0.00020
	02/02/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-8	06/18/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

Monitor Well	Sample Date	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Total Naphthalene (8260, mg/L)	Total Naphthalene (8270, mg/L)	Other volatiles? (see notes)	Other semi-volatiles? (see notes)	Type?	Aceto-phenone (mg/L)
NM WQCC Groundwater Standards:												
MW-9	06/16/09	0.010 <0.0050	0.75 <0.0050	0.75 <0.0050	0.62 <0.015	-- <0.0050	0.03 <0.0050	0.03 <0.0087	-- Yes	-- Yes	Phthalates	-- <0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/19/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-10	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/13/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/19/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-11	06/18/09	0.10 <0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	0.20 E <0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/18/10	0.078 <0.0050	0.021 <0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00036	No	Yes	Phthalates, phenols	0.00082
MW-12	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-13	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/18/10	0.016 <0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, biphenyl	<0.00020
MW-14	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-15	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates, caprolactam	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-16	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-17	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-18	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-19	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
MW-20	06/16/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	01/18/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020
	08/20/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	No	Yes	Phthalates	<0.00020

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

Monitor Well	Sample Date	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Total Naphthalene (8260, mg/L)	Total Naphthalene (8270, mg/L)	Other volatiles? (see notes)	Other semi-volatiles? (see notes)	Type?	Aceto-phenone (mg/L)
NM WQCC Groundwater Standards:												
MW-21	08/23/10	0.010 <0.0050	0.75 <0.0050	0.75 <0.0050	0.62 <0.015	-- <0.0050	0.03 <0.0050	0.03 <0.00020	-- Yes	-- Phthalates		-- <0.00020
MW-22	08/23/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
MW-23	08/23/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
MW-24	08/24/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates, atrazine		<0.00020
MW-25	08/23/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
MW-26	08/24/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
MW-27	08/27/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
MW-28	08/28/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	No			<0.00020
MW-29 (Dupl #1)	08/24/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
RW-1	06/19/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates, phenol		<0.00020
	02/02/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	08/19/10	<0.0050	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
North Well	06/18/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	08/24/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
South Well	06/22/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	08/24/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
East Well	06/18/09	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	01/14/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020
	08/25/10	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	Yes	Phthalates		<0.00020

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

Monitor Well	Sample Date	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Total Naphthalene (8260, mg/L)	Total Naphthalene (8270, mg/L)	Other volatiles? (see notes)	Other semi-volatiles? (see notes)	Type?	Aceto-phenone (mg/L)
NM WQCC Groundwater Standards:		0.010	0.75	0.75	0.62	--	0.03	0.03	--	--		--
Notes:												
Yellow, constituent detected. Bold , exceeds NM WQCC standard												
E - Value above quantitation range												
MW-1, 06/19/09: Low level detections for 1,2,4-Trimethylbenzene (0.0067 mg/L), and 2-Butanone (0.060 mg/L)												
MW-6, 06/18/09: Low level detections for 1,2,4-Trimethylbenzene (0.0058 mg/L), 2-Butanone (0.30 mg/L) and Acetone (0.059 mg/l)												
MW-6, Duplicate 06/18/09: Low level detections for 1,2,4-Trimethylbenzene (0.0061 mg/L), 2-Butanone (0.28 mg/L) and Acetone (0.057 mg/l)												
MW-6, 02/02/10: Detections for 1,2,4-Trimethylbenzene (0.016 mg/L), 2-Butanone (0.066 mg/L), Acetone (0.19 mg/l), Isopropylbenzene (0.0088 mg/L), and n-Propylbenzene (0.0066 mg/L)												
MW-7, 06/19/09: Low level detection for 2-Butanone (0.030 mg/L)												
RW-1, 06/19/09: Low level detection for 2-Butanone (0.038 mg/L)												
Complete analytical results shown in the Appendix												
Analyses performed by ALS Laboratory Group, Houston, Texas												

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-N, mg/L	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
NM WQCC Groundwater Standards:													
		250	1.6	10	600	1,000	5.0	0.1	1.0	0.75	0.01	0.05	0.05
MW-1	06/19/09	131	0.827	3.75	123	694	<0.0100	0.00914	0.147	0.175	<0.00200	<0.00500	<0.00500
	01/19/10	266	0.249	5.84	145	1,240	0.0202	0.00634	0.164	0.236	<0.00200	<0.00500	<0.00500
	08/18/10	126	0.623	2.59	111	694	<0.0100	0.00841	0.117	0.182	<0.00200	<0.00500	<0.00500
MW-2	06/22/09	252	0.765	2.69	66.8	988	0.0657	0.0386	0.0803	0.190	<0.00200	<0.00500	<0.00500
	01/19/10	246	0.672	3.39	55.1	966	<0.0100	<0.00500	0.00500	0.191	<0.00200	<0.00500	<0.00500
	08/16/10	276	0.824	55.9	3.23	1,180	0.1367	<0.00500	0.193	0.155	<0.00200	<0.00500	<0.00500
MW-3	06/16/09	29.1	3.38	2.19	64.6	504	0.308	0.00815	0.115	0.160	<0.00200	0.00709	<0.00500
	01/14/10	49.9	3.18	2.11	76.5	540	0.144	0.00703	0.119	0.148	<0.00200	0.00977	<0.00500
(duplicate)	01/14/10	49.8	3.18	2.11	75.0	552	0.142	0.00798	0.125	0.167	<0.00200	0.0105	<0.00500
	08/19/10	72.7	2.99	1.52	77.7	518	0.0767	0.00935	0.127	0.151	<0.00200	<0.00500	<0.00500
MW-4	06/16/09	28.9	0.841	1.84	61.5	422	0.180	<0.00500	0.174	0.160	<0.00200	0.00534	<0.00500
	01/13/10	29.3	1.10	1.67	66.7	416	0.0345	<0.00500	0.0932	0.177	<0.00200	<0.00500	<0.00500
	08/19/10	26.1	1.10	1.1	65.8	324	0.0607	<0.00500	0.0862	0.136	<0.00200	<0.00500	<0.00500
MW-5	06/16/09	186	1.39	3.31	131	952	0.796	0.0233	0.0639	0.116	<0.00200	<0.00500	<0.00500
	01/18/10	26.4	0.781	4.91	80.6	508	<0.0100	<0.00500	0.0966	0.135	<0.00200	<0.00500	<0.00500
	08/20/10	18.5	1.13	3.43	77.7	440	0.0814	<0.00500	0.0967	0.0986	<0.00200	<0.00500	<0.00500
MW-6	06/18/09	188	0.113	0.678	101	844	<0.0100	0.0201	0.186	0.175	<0.00200	<0.00500	<0.00500
(duplicate)	06/18/09	168	<0.100	0.682	90.4	812	<0.0100	0.0221	0.200	0.192	<0.00200	<0.00500	<0.00500
	02/02/10	334	<0.100	0.822	90.2	1,400	<0.0200	0.0250	0.499	0.234	<0.00200	<0.00500	<0.00500
	08/19/10	285	<0.100	<1.00	111	1,350	0.0152	0.0456	0.376	0.244	<0.00200	<0.00500	<0.00500
MW-7	06/19/09	30.6	1.12	1.66	67.2	384	<0.0100	0.00923	0.169	0.161	<0.00200	<0.00500	<0.00500
	02/02/10	28.0	0.854	1.72	62.2	350	<0.0200	0.00869	0.199	0.169	<0.00200	<0.00500	<0.00500
	08/18/10	27.2	0.570	1.12	60.2	370	0.0223	0.00532	0.252	0.161	<0.00200	<0.00500	<0.00500
MW-8	06/18/09	219	0.730	3.46	73.3	798	<0.0100	0.00501	0.181	0.228	<0.00200	<0.00500	<0.00500
	01/18/10	151	0.493	3.80	67.6	742	<0.0100	0.00726	0.157	0.215	<0.00200	<0.00500	<0.00500
	08/18/10	279	0.56	7.08	65.3	1,260	0.0377	0.00676	0.204	0.170	<0.00200	<0.00500	<0.00500

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium (mg/L)	Zinc (mg/L)
NM WQCC Groundwater Standards:												
MW-1		1.0	1.0	0.05	0.20	0.002	1.0	0.2	0.05	0.05	0.03	10.0
	06/19/09	<0.00500	<0.200	<0.00500	0.974	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0124
	01/19/10	<0.00500	<0.200	<0.00500	2.72	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00615	0.00989
	08/18/10	<0.00500	<0.200	<0.00500	1.62	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00538
MW-2												
	06/22/09	0.00621	<0.200	<0.00500	0.00583	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.110
	01/19/10	<0.00500	<0.200	<0.00500	0.00538	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0166
	08/16/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0204
MW-3												
	06/16/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.0151	<0.00500	<0.00500	<0.00500	--	<0.0100
	01/14/10	0.121	<0.200	<0.00500	0.00597	<0.000200	0.0200	0.00842	<0.00500	<0.00500	0.000625	0.0195
(duplicate)	01/14/10	0.148	<0.200	<0.00500	0.00699	<0.000200	0.0216	0.0096	<0.00500	<0.00500	0.000721	0.0230
	08/19/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00790	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-4												
	06/16/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0120
	01/13/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00102	<0.00500
	08/19/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-5												
	06/16/09	<0.00500	0.399	<0.00500	0.0067	<0.000200	0.0103	<0.00500	<0.00500	<0.00500	--	<0.0100
	01/18/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-6												
	06/18/09	<0.00500	0.418	<0.00500	2.86	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.00996
(duplicate)	06/18/09	<0.00500	0.219	<0.00500	2.76	<0.000200	<0.00500	0.00653	<0.00500	<0.00500	--	0.0141
	02/02/10	<0.00500	2.08	<0.00500	4.51	<0.000200	<0.00500	0.00634	<0.00500	<0.00500	0.0113	<0.00500
	08/19/10	<0.00500	1.86	<0.00500	6.61	<0.000200	<0.00500	0.00766	<0.00500	<0.00500	0.00785	<0.00500
MW-7												
	06/19/09	<0.00500	<0.200	<0.00500	0.127	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0137
	02/02/10	<0.00500	<0.200	<0.00500	0.125	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/18/10	<0.00500	<0.200	<0.00500	0.343	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-8												
	06/18/09	<0.00500	<0.200	<0.00500	0.00919	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0458
	01/18/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00545
	08/18/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00501	0.00760

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-N (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
NM WQCC Groundwater Standards:													
		250	1.6	10	600	1,000	5.0	0.1	1.0	0.75	0.01	0.05	0.05
MW-9	06/16/09	23.0	1.69	0.748	73.2	380	0.0468	0.0373	0.0911	0.122	<0.00200	<0.00500	<0.00500
	01/14/10	23.9	1.78	1.72	74.4	450	0.0164	0.0351	0.0676	0.139	<0.00200	<0.00500	<0.00500
	08/19/10	21.8	1.64	1.32	75.2	412	0.115	0.0358	0.0649	0.121	<0.00200	<0.00500	<0.00500
MW-10	06/16/09	32.2	0.878	1.83	76.5	378	<0.0200	<0.00500	0.113	0.138	<0.00200	<0.00500	<0.00500
	01/13/10	33.4	1.05	1.84	77.9	436	<0.0100	<0.00500	0.0815	0.162	<0.00200	<0.00500	<0.00500
	08/19/10	31.7	1.07	1.91	79.8	508	0.0556	<0.00500	0.0798	0.129	<0.00200	<0.00500	<0.00500
MW-11	06/18/09	204	0.579	1.23	43.1	994	<0.0100	<0.00500	0.194	0.199	<0.00200	<0.00500	<0.00500
	01/18/10	164	0.527	1.37	71.4	842	<0.0100	<0.00500	0.147	0.238	<0.00200	<0.00500	<0.00500
	08/18/10	146	0.616	2.38	50.6	802	0.0125	<0.00500	0.471	0.255	<0.00200	<0.00500	<0.00500
MW-12	06/16/09	23.0	1.16	1.98	49.6	354	<0.0200	0.00516	0.0775	0.200	<0.00200	<0.00500	<0.00500
	01/18/10	26.1	1.05	2.31	49.8	398	<0.0100	<0.00500	0.0755	0.235	<0.00200	<0.00500	<0.00500
	08/20/10	25.8	1.22	2.00	50.3	340	0.115	0.00550	0.0756	0.176	<0.00200	<0.00500	<0.00500
MW-13	06/16/09	425	0.220	2.65	138	1,790	<0.0200	<0.00500	0.0692	0.253	<0.00200	<0.00500	0.0285
	01/18/10	604	0.170	1.08	79.8	2,210	<0.0100	<0.00500	0.111	0.231	<0.00200	0.00728	0.00624
	08/18/10	390	0.278	<1.00	144	1,720	0.0196	<0.00500	0.106	0.221	<0.00200	<0.00500	<0.00500
MW-14	06/16/09	93.0	0.851	5.16	60.9	540	<0.0200	<0.00500	0.0770	0.132	<0.00200	<0.00500	<0.00500
	01/18/10	103	0.810	6.03	59.0	598	<0.0100	<0.00500	<0.00500	<0.0200	<0.00200	<0.00500	<0.00500
	08/20/10	74.1	0.986	2.76	61.3	340	0.103	<0.00500	0.0774	0.131	<0.00200	0.0119	<0.00500
MW-15	08/20/10	221	0.921	3.22	77.6	776	0.079	<0.00500	0.145	0.175	<0.00200	<0.00500	<0.00500
MW-16	08/20/10	25.3	0.930	1.13	73.7	406	0.0746	<0.00500	0.109	0.156	<0.00200	<0.00500	<0.00500
MW-17	08/20/10	426	0.517	4.27	72.6	1,650	0.146	<0.00500	0.18	0.157	<0.00200	<0.00500	<0.00500
MW-18	08/23/10	176	0.456	0.733	287.0	1,080	0.0787	<0.00500	0.0575	0.334	<0.00200	<0.00500	<0.00500
MW-19	08/23/10	469	0.536	2.94	178.0	1,650	0.101	0.0476	0.229	<0.0200	<0.00200	<0.00500	<0.00500

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium (mg/L)	Zinc (mg/L)
NM WQCC Groundwater Standards:												
		1.0	1.0	0.05	0.20	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-9	06/16/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.0100
	01/14/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.000656	<0.00500
	08/19/10	<0.00500	<0.200	<0.00500	0.00961	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-10	06/16/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0127
	01/13/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.000911	0.0133
	08/19/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00569
MW-11	06/18/09	<0.00500	0.571	<0.00500	0.387	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0212
	01/18/10	<0.00500	<0.200	<0.00500	0.0559	<0.000200	<0.00500	0.0126	<0.00500	<0.00500	0.00635	<0.00500
	08/18/10	<0.00500	0.347	<0.00500	0.571	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00718	<0.00500
MW-12	06/16/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.0100
	01/18/10	<0.00500	<0.200	<0.00500	0.0219	<0.000200	<0.00500	0.0182	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-13	06/16/09	<0.00500	<0.200	<0.00500	0.0176	<0.000200	<0.00500	0.0126	<0.00500	<0.00500	--	0.0269
	01/18/10	<0.00500	<0.200	<0.00500	0.0591	<0.000200	<0.00500	0.0110	<0.00500	<0.00500	0.0119	0.00769
	08/18/10	<0.00500	<0.200	<0.00500	0.256	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0128	0.00618
MW-14	06/16/09	<0.00500	<0.200	<0.00500	0.0199	<0.000200	0.0215	<0.00501	<0.00500	<0.00500	--	0.0255
	01/18/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00964	0.0480	<0.00500	<0.00500	0.00527	<0.00500
MW-15	08/20/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0198
MW-16	08/20/10	<0.00500	<0.200	<0.00500	0.00554	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0145
MW-17	08/20/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0142
MW-18	08/23/10	<0.00500	<0.200	<0.00500	0.314	<0.000200	0.00561	0.0298	0.00548	<0.00500	0.0123	0.0772
MW-19	08/23/10	<0.00500	<0.200	<0.00500	0.00666	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0227

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
NM WQCC													
Groundwater Standards:		250	1.6	10	600	1,000	5.0	0.1	1.0	0.75	0.01	0.05	0.05
MW-20	08/23/10	169	0.570	1.74	65.1	868	0.0891	<0.00500	0.122	0.143	<0.00200	<0.00500	<0.00500
MW-21	08/23/10	115	0.250	2.12	52.7	966	0.195	<0.00500	<0.00500	0.232	0	<0.00500	<0.00500
MW-22	08/23/10	115	0.552	1.76	62.3	726	0.121	<0.00500	0.165	0.174	<0.00200	<0.00500	<0.00500
MW-23	08/23/10	645	0.782	2.92	121.0	2,260	0.237	<0.00500	0.245	0.157	<0.00200	<0.00500	<0.00500
MW-24	08/24/10	34.6	2.31	2.40	53.9	422	0.187	<0.00500	0.0867	0.140	<0.00200	<0.00500	<0.00500
MW-25	08/23/10	178	0.871	2.42	182.0	946	0.244	<0.00500	0.246	0.174	<0.00200	0.0476	<0.00500
MW-26	08/24/10	217	0.484	2.88	98.5	958	0.115	<0.00500	0.131	0.169	<0.00200	<0.00500	<0.00500
MW-27	08/18/10	115	0.644	5.10	118.0	752	0.218	<0.00500	0.100	0.152	<0.00200	<0.00500	<0.00500
MW-28	08/24/10	71.2	1.66	1.70	60.3	440	0.129	<0.00500	0.0846	0.153	<0.00200	<0.00500	<0.00500
MW-29	08/24/10	456	0.753	2.18	167.0	726	0.0261	<0.00500	0.0644	0.189	<0.00200	0.0317	<0.00500
Dupl. #1	08/24/10	132	0.741	2.15	100	742	<0.0100	<0.00500	0.0652	0.186	<0.00200	0.0321	<0.00500
RW-1	06/19/09	34.8	1.21	- -	70.8	398	<0.0100	0.010	0.160	0.161	<0.00200	<0.00500	<0.00500
	02/02/10	34.2	0.913	1.52	66.0	388	<0.0200	0.00857	0.190	0.166	<0.00200	<0.00500	<0.00500
	08/19/10	27.8	0.991	1.42	72.3	380	0.0202	0.0104	0.162	0.154	<0.00200	0.0321	<0.00500
North Well	06/18/09	140	0.933	2.72	80.6	664	<0.0100	0.00536	0.0997	0.151	<0.00200	0.0104	<0.00500
	01/14/10	143	0.793	2.90	74.2	638	<0.0100	<0.00500	0.107	0.172	<0.00200	<0.00500	<0.00500
	08/24/10	127	0.932	1.81	80.4	594	<0.0100	0.00552	0.100	0.147	<0.00200	<0.00500	<0.00500
South Well	06/22/09	497	0.665	3.02	106	1,450	<0.0100	<0.00500	0.154	0.189	<0.00200	<0.00500	<0.00500
	01/14/10	498	0.686	3.27	113	1,520	0.0176	<0.00500	0.138	0.229	<0.00200	<0.00500	<0.00500
	08/24/10	477	0.651	2.18	101	1,760	<0.0100	<0.00500	0.172	0.186	<0.00200	<0.00500	<0.00500

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium (mg/L)	Zinc (mg/L)
NM WQCC Groundwater Standards:												
MW-20	08/23/10	1.0	1.0	0.05	0.20	0.002	1.0	0.2	0.05	0.05	0.03	10.0
		<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00970
MW-21	08/23/10	<0.00500	<0.200	<0.00500	0.0567	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00898	0.0307
MW-22	08/23/10	<0.00500	<0.200	<0.00500	0.0306	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00604	0.0916
MW-23	08/23/10	<0.00500	<0.200	<0.00500	0.00669	<0.000200	<0.00500	0.00859	<0.00500	<0.00500	<0.00500	0.0570
MW-24	08/24/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00922
MW-25	08/23/10	<0.00500	<0.200	<0.00500	0.0109	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0194
MW-26	08/24/10	<0.00500	<0.200	<0.00500	0.0156	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0161
MW-27	08/18/10	<0.00500	<0.200	<0.00500	0.0534	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00544	0.0213
MW-28	08/24/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-29	08/24/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0433
Dupl. #1	08/24/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0375
RW-1	06/19/09	<0.00500	<0.200	<0.00500	0.0380	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.00548
	02/02/10	<0.00500	<0.200	<0.00500	0.0467	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/19/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
North Well	06/18/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	<0.00500
	01/14/10	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00134	<0.00500
	08/24/10	0.00856	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.0161	<0.00500	<0.00500	<0.00500	0.00920
South Well	06/22/09	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	--	0.0195
	01/14/10	<0.00500	<0.200	<0.00500	0.0224	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00236	<0.00500
	08/24/10	<0.00500	<0.200	<0.00500	0.00576	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0207

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N, mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
NM WQCC Groundwater Standards:													
East Well	06/18/09	250	1.6	10	600	1,000	5.0	0.1	1.0	0.75	0.01	0.05	0.05
	01/14/10	107	0.980	2.59	84.0	554	0.0131	<0.00500	0.0820	0.143	<0.00200	<0.00500	<0.00500
	08/25/10	138	0.991	2.70	72.7	676	<0.0100	<0.00500	0.0941	0.154	<0.00200	0.0119	<0.00500
		106	1.00			522	<0.0100	<0.00500	0.0873	0.136	<0.00200	0.0145	<0.00500
NM WQCC Groundwater Standards:													
		250	1.6	10	600	1,000	5.0	0.1	1.0	0.750	0.01	0.05	0.05
		Notes:											
		Bold highlighted, exceeds NM WQCC standard											
		Samples field filtered except for Total Mercury											
		Uranium not analyzed for 06/09 sample set											
		Analyses performed by ALS Laboratory Group, Houston, Texas											

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

Monitor Well	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium (mg/L)	Zinc (mg/L)
NM WQCC Groundwater Standards:												
East Well	06/18/09	1.0	1.0	0.05	0.20	0.002	1.0	0.2	0.05	0.05	0.03	10.0
		<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0172
	01/14/10	0.00953	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00111	0.0291
	08/25/10	0.00745	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0146
NM WQCC Groundwater Standards:												
		1.0	1.0	0.05	0.20	0.002	1.0	0.2	0.05	0.05	0.03	10.0
	Notes:											
	Bold, exceeds NM WQCC standard											
	Samples field filtered except for Total Mercury											
	Uranium not analyzed for this sample set											
	Analyses performed by ALS Laboratory Group, Houston, Texas											
	Complete analytical results shown in the Appendix											

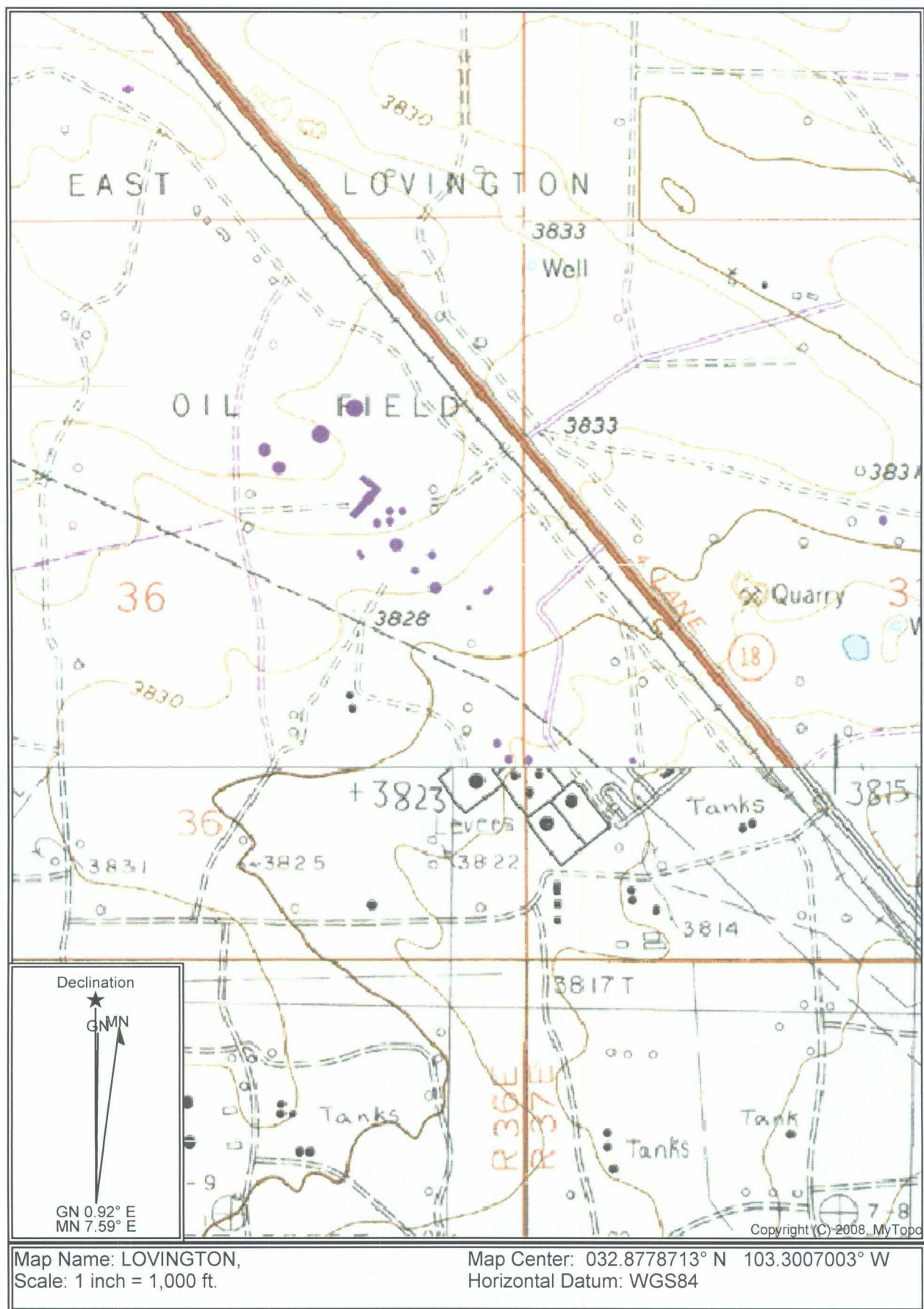
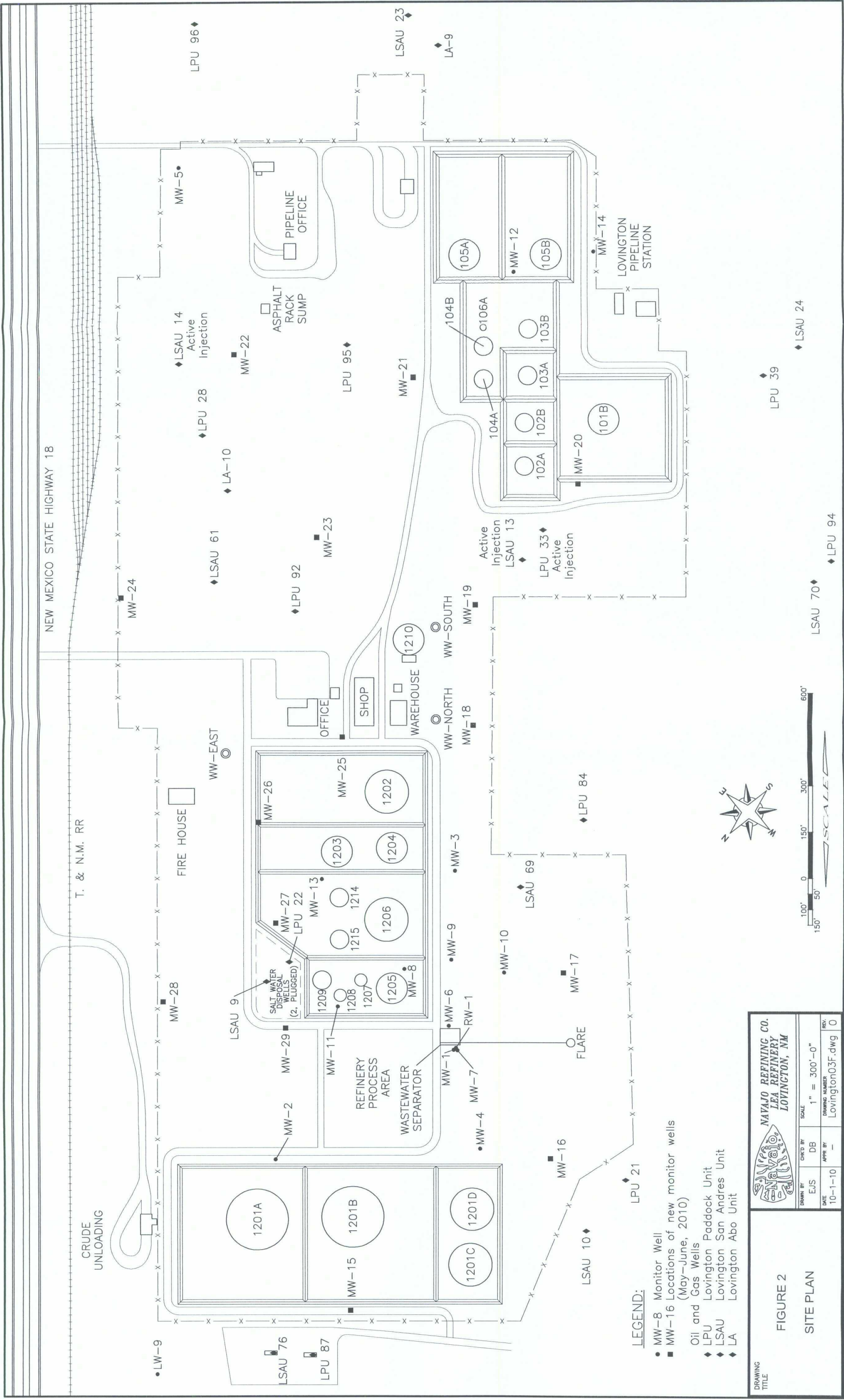
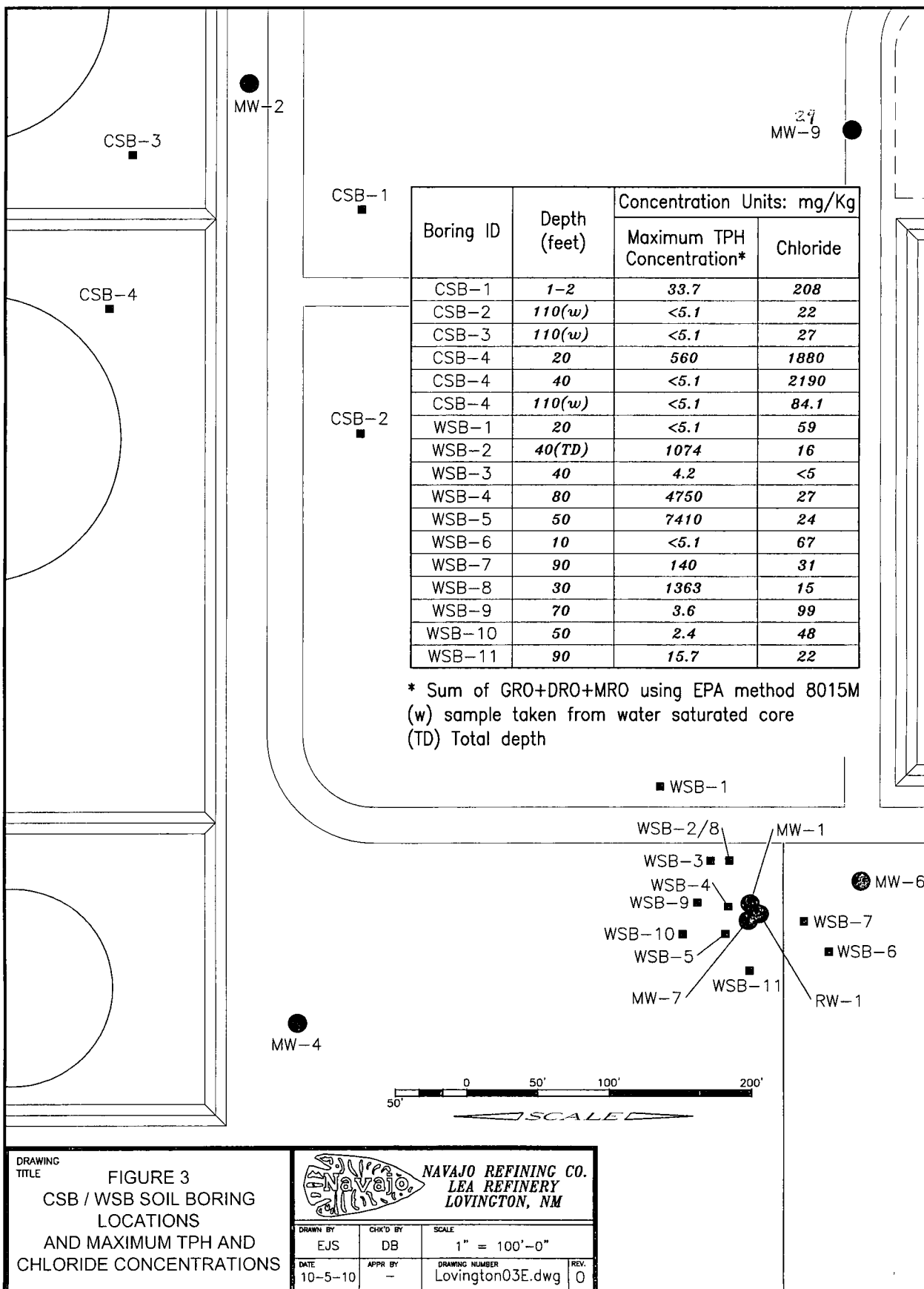


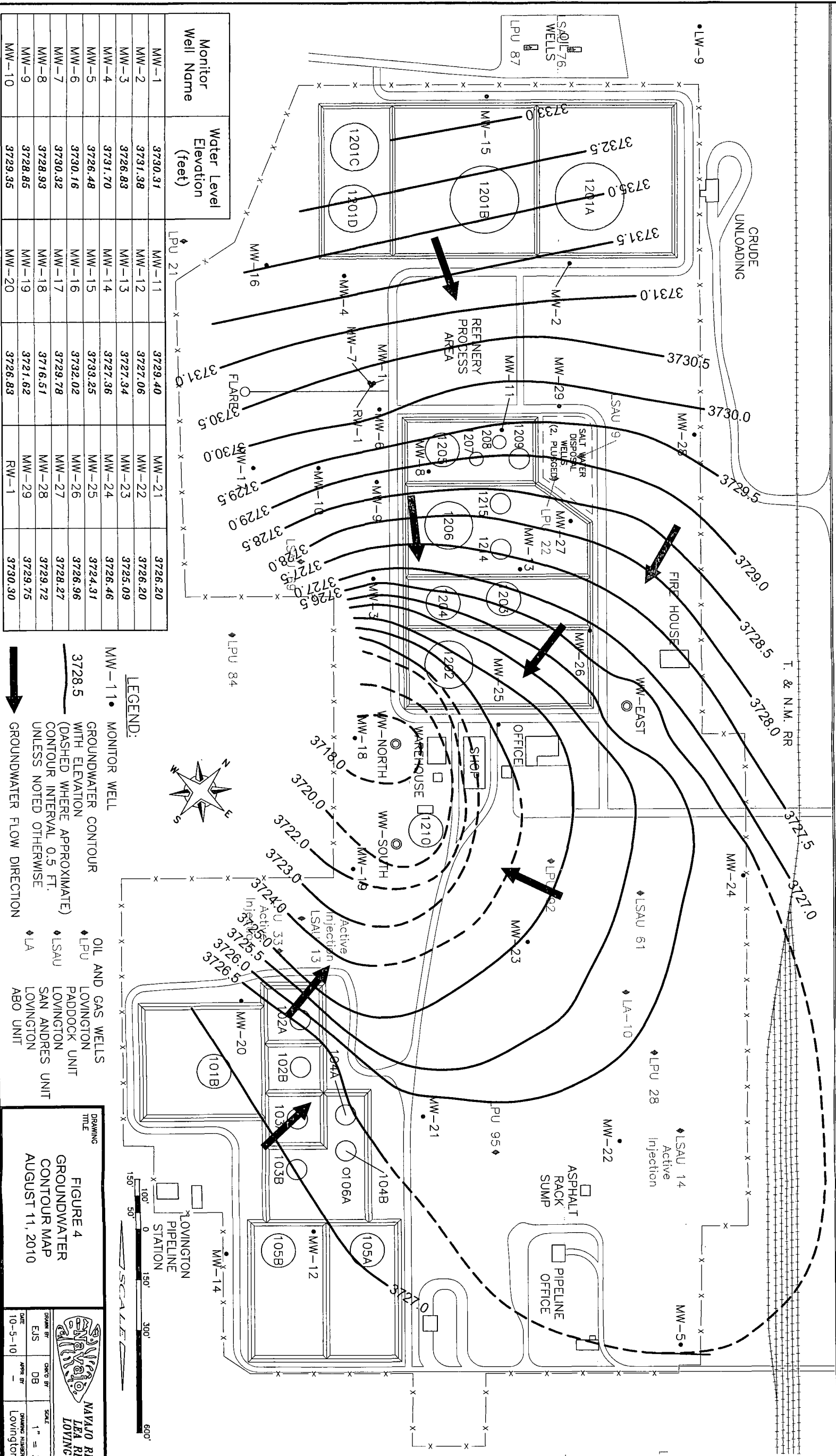
Figure 1. Location Map, Lea Refinery, Navajo Refining Company, Lovington, New Mexico

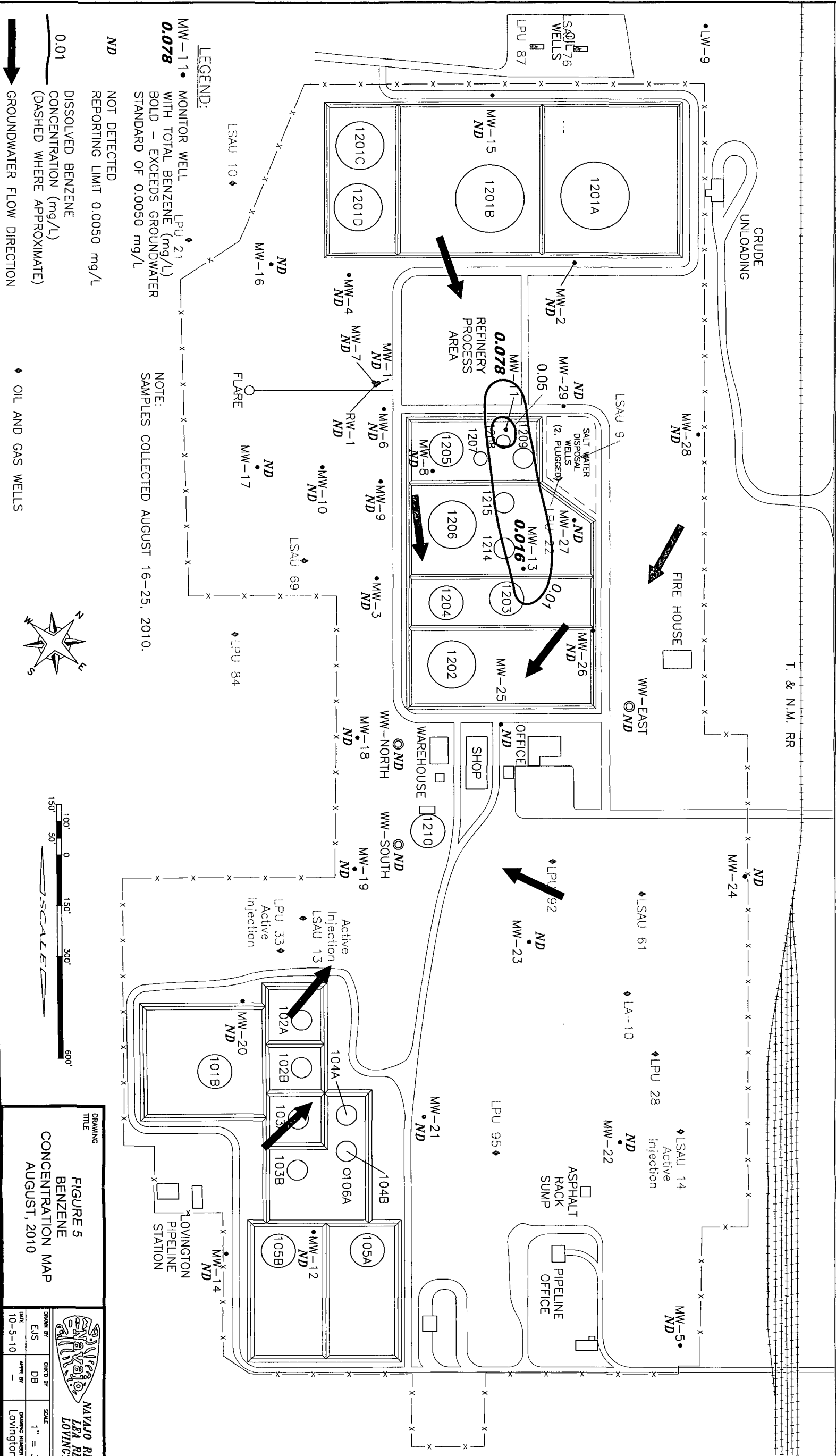




DRAWING TITLE
FIGURE 3
CSB / WSB SOIL BORING
LOCATIONS
AND MAXIMUM TPH AND
CHLORIDE CONCENTRATIONS

		NAVAJO REFINING CO. LEA REFINERY LOVINGTON, NM	
DRAWN BY EJS	CHK'D BY DB	SCALE 1" = 100'-0"	
DATE 10-5-10	APPR BY -	DRAWING NUMBER Lovington03E.dwg	REV. 0



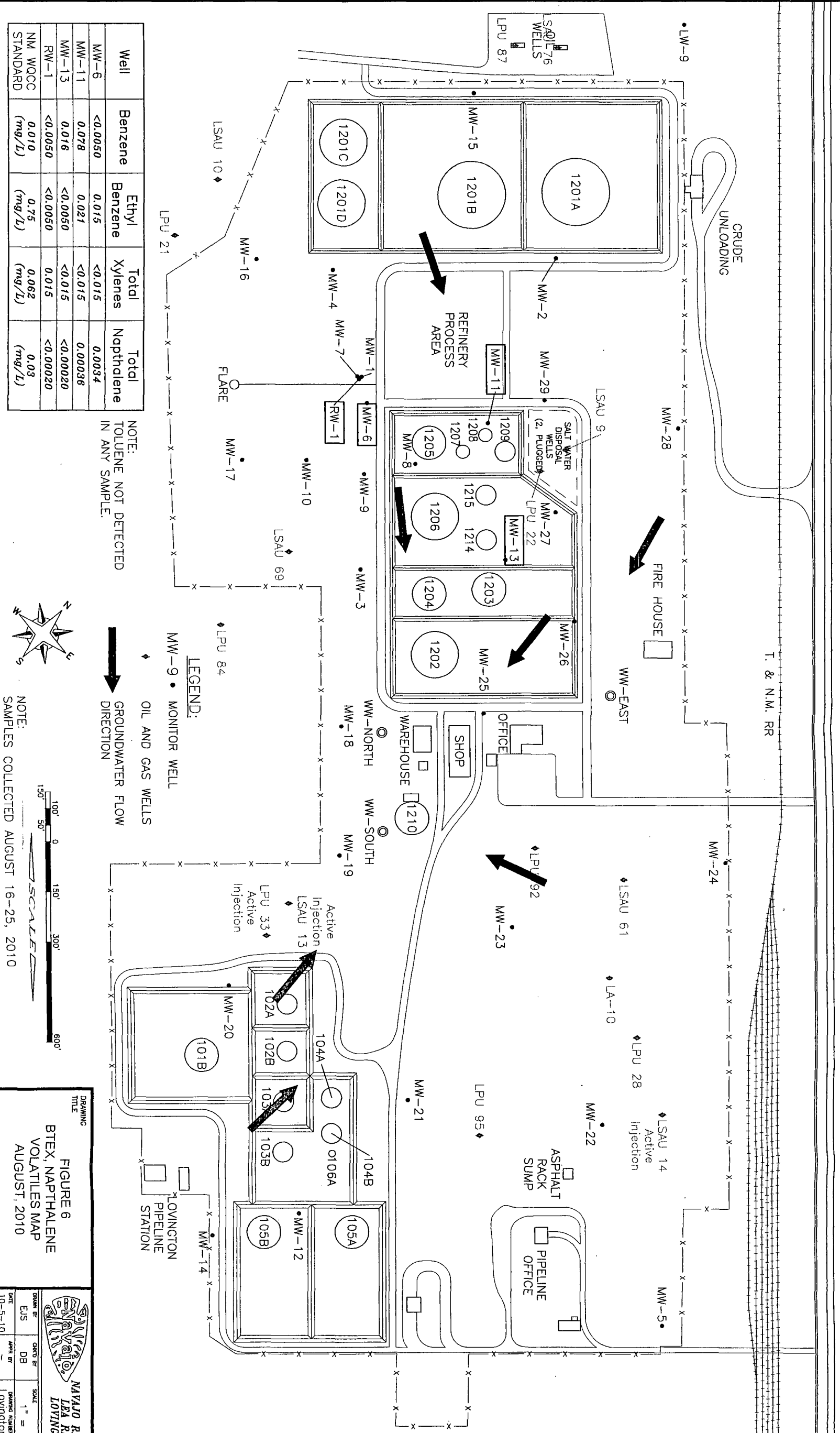


DRAWING
TITLE

FIGURE 5
BENZENE
CONCENTRATION MAP
AUGUST, 2010

NAVAJO REFINING CO.
LEA REFINERY
LOVINGTON, NM

DRAWN BY	CHCK BY	SCALE
EJS	DB	1" = 300'-0"
DATE	APPR BY	DRAWING NUMBER
10-5-10	-	LoVington03G.dwg
		REV. 0



Well	Benzene	Ethyl Benzene	Total Xylenes	Total Naphthalene
MW-6	<0.0050	0.015	<0.015	0.0034
MW-11	0.078	0.021	<0.015	0.00036
MW-13	0.016	<0.0050	<0.015	<0.00020
RW-1	<0.0050	<0.0050	0.015	<0.00020
NM WQCC STANDARD	0.010 (mg/L)	0.75 (mg/L)	0.062 (mg/L)	0.03 (mg/L)

NOTE:
TOLUENE NOT DETECTED
IN ANY SAMPLE.



NOTE:
SAMPLES COLLECTED AUGUST 16-25, 2010

DRAWING
TITLE

FIGURE 6
BTEX, NAPHTHALENE
VOLATILES MAP
AUGUST, 2010

NAVJO REFINING CO.
LEA REFINERY
LOVINGTON, NM

DRAWN BY
EJS

CHECKED BY
DB

DATE
10-5-10

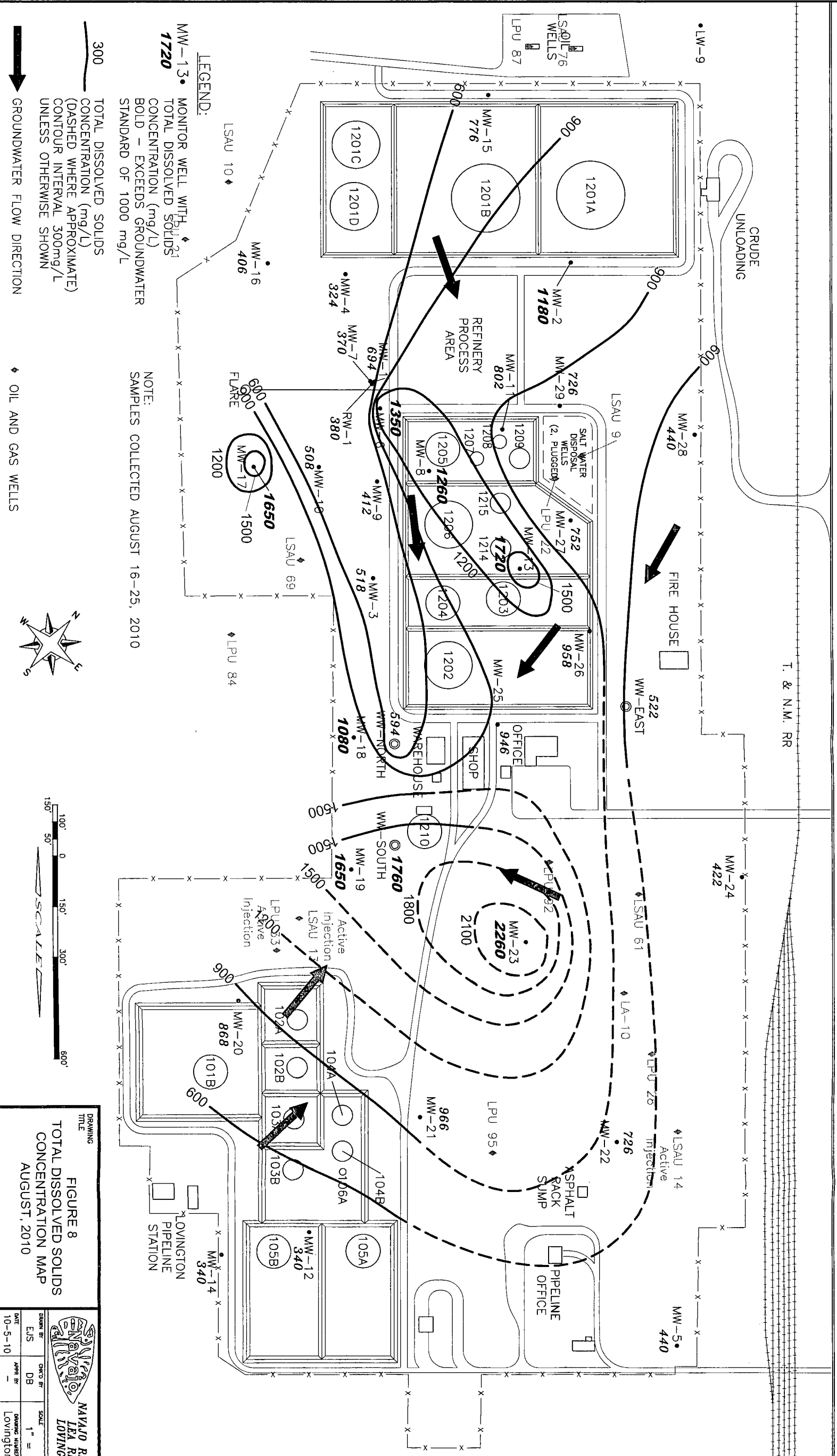
SCALE
1" = 300'-0"

DRAWING NUMBER
Lovington036.dwg

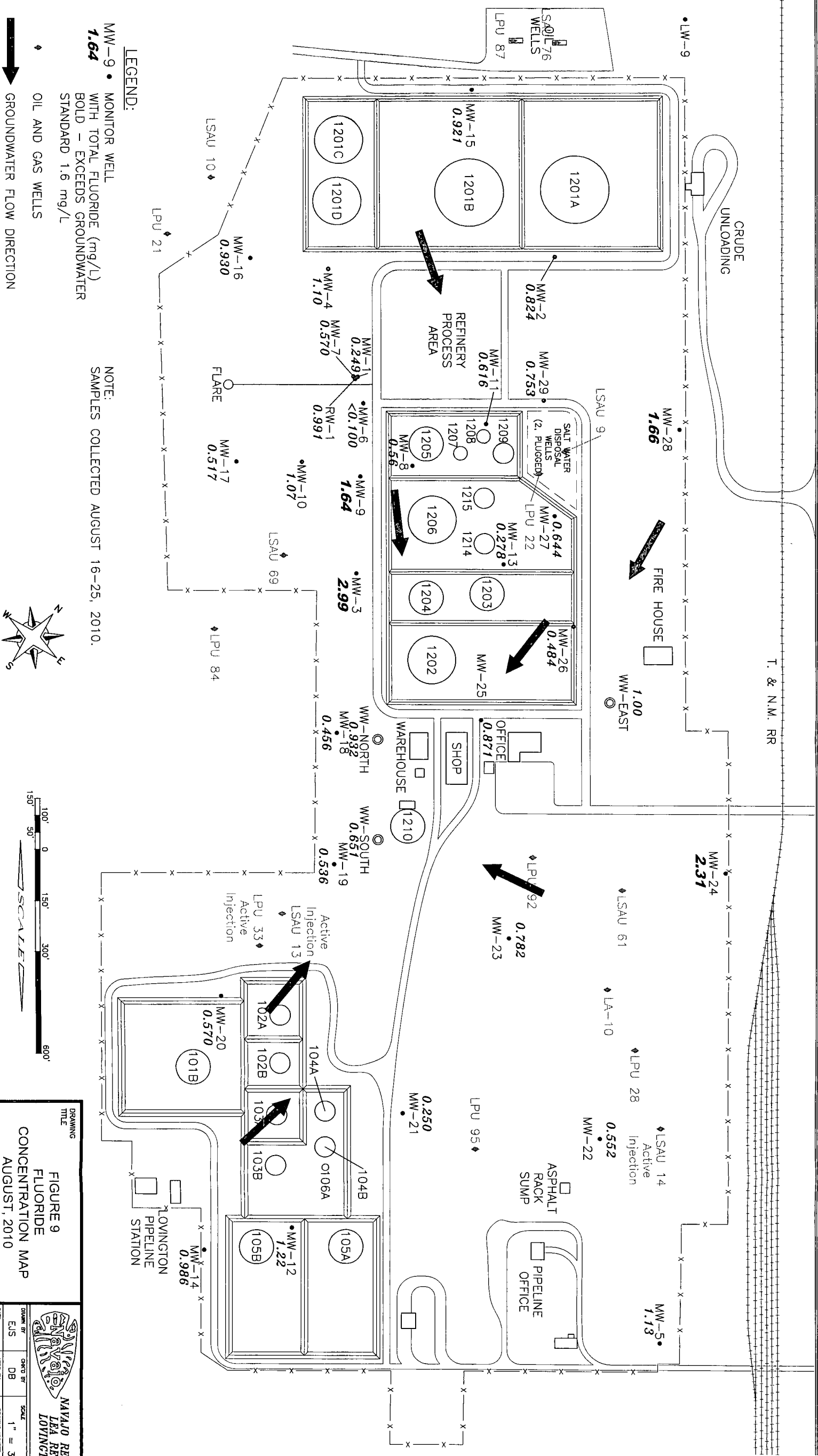
REV.
0

		NAVAJO REFINING CO. LEA REFINERY LOVINGTON, NM	
DRAWN BY EJS	CHECK BY DB	SCALE 1" = 300'-0"	
DATE 10-5-10	APPR BY -	DRAWING NUMBER LOVINGTON036.dwg	REV. 0

		NAVAJO REFINING CO. LEA REFINERY LOVINGTON, NM	
DRAWN BY EJS	CHECK BY DB	SCALE 1" = 300'-0"	
DATE 10-5-10	APPR BY -	DRAWING NUMBER LOVINGTON036.dwg	REV. 0



NEW MEXICO STATE HIGHWAY 18



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

25-May-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733

Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005382

Dear Darrell,

ALS Laboratory Group received 10 samples on 13-May-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 23.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

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Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company**Project:** Lea Refinery New Wells**Work Order:** 1005382**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005382-01	MW-18 0-6in	Soil		5/10/2010 10:05	5/13/2010 08:50	☐
1005382-02	MW-18 9-10'	Soil		5/10/2010 10:50	5/13/2010 08:50	☐
1005382-03	MW-18 19-20'	Soil		5/10/2010 11:55	5/13/2010 08:50	☐
1005382-04	MW-18 27-29'	Soil		5/10/2010 12:30	5/13/2010 08:50	☐
1005382-05	MW-18 39-40'	Soil		5/11/2010 08:50	5/13/2010 08:50	☐
1005382-06	MW-18 49-50'	Soil		5/11/2010 09:35	5/13/2010 08:50	☐
1005382-07	MW-18 60-61'	Soil		5/11/2010 10:20	5/13/2010 08:50	☐
1005382-08	MW-18 69-70'	Soil		5/11/2010 12:05	5/13/2010 08:50	☐
1005382-09	MW-18 79-80'	Soil		5/11/2010 14:30	5/13/2010 08:50	☐
1005382-10	Trip Blank 042710-29	Water		5/11/2010	5/13/2010 08:50	☐

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 0-6in

Collection Date: 5/10/2010 10:05 AM

Work Order: 1005382

Lab ID: 1005382-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	100		3.4	mg/Kg	2	5/20/2010 04:14 PM
TPH (Motor Oil Range)	32		6.8	mg/Kg	2	5/20/2010 04:14 PM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	2	5/20/2010 04:14 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/19/2010 10:10 PM
Surr: 4-Bromofluorobenzene	81.5		70-130	%REC	1	5/19/2010 10:10 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 02:29 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 02:29 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 02:29 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 02:29 PM
Surr: 4-Bromofluorobenzene	94.1		75-131	%REC	1	5/17/2010 02:29 PM
Surr: Trifluorotoluene	95.7		73-130	%REC	1	5/17/2010 02:29 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	12.4		4.73	mg/Kg	1	5/18/2010 09:09 PM
Surr: Selenate (surr)	99.0		85-115	%REC	1	5/18/2010 09:09 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 9-10'

Lab ID: 1005382-02

Collection Date: 5/10/2010 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	6.9		1.7	mg/Kg	1	5/14/2010 06:01 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/14/2010 06:01 PM
Surr: 2-Fluorobiphenyl	117		70-130	%REC	1	5/14/2010 06:01 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/19/2010 10:34 PM
Surr: 4-Bromofluorobenzene	81.2		70-130	%REC	1	5/19/2010 10:34 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 02:49 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 02:49 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 02:49 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 02:49 PM
Surr: 4-Bromofluorobenzene	96.4		75-131	%REC	1	5/17/2010 02:49 PM
Surr: Trifluorotoluene	95.6		73-130	%REC	1	5/17/2010 02:49 PM
ANIONS						
			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	16.9		4.93	mg/Kg	1	5/18/2010 09:31 PM
Surr: Selenate (surr)	98.0		85-115	%REC	1	5/18/2010 09:31 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 19-20'

Collection Date: 5/10/2010 11:55 AM

Work Order: 1005382

Lab ID: 1005382-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/14/2010 06:20 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/14/2010 06:20 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	5/14/2010 06:20 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/19/2010 10:58 PM
Surr: 4-Bromofluorobenzene	81.9		70-130	%REC	1	5/19/2010 10:58 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 04:31 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 04:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 04:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 04:31 PM
Surr: 4-Bromofluorobenzene	100		75-131	%REC	1	5/17/2010 04:31 PM
Surr: Trifluorotoluene	98.4		73-130	%REC	1	5/17/2010 04:31 PM
ANIONS						
			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	14.9		4.72	mg/Kg	1	5/18/2010 10:56 PM
Surr: Selenate (surr)	98.1		85-115	%REC	1	5/18/2010 10:56 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 27-29'

Lab ID: 1005382-04

Collection Date: 5/10/2010 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	3.9		1.7	mg/Kg	1	5/14/2010 06:40 PM
TPH (Motor Oil Range)	6.8		3.4	mg/Kg	1	5/14/2010 06:40 PM
Surr: 2-Fluorobiphenyl	104		70-130	%REC	1	5/14/2010 06:40 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/19/2010 11:22 PM
Surr: 4-Bromofluorobenzene	80.5		70-130	%REC	1	5/19/2010 11:22 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 04:51 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 04:51 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 04:51 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 04:51 PM
Surr: 4-Bromofluorobenzene	99.4		75-131	%REC	1	5/17/2010 04:51 PM
Surr: Trifluorotoluene	96.0		73-130	%REC	1	5/17/2010 04:51 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	18.0		4.86	mg/Kg	1	5/18/2010 11:17 PM
Surr: Selenate (surr)	97.2		85-115	%REC	1	5/18/2010 11:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 39-40'

Collection Date: 5/11/2010 08:50 AM

Work Order: 1005382

Lab ID: 1005382-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/14/2010 06:59 PM
TPH (Motor Oil Range)	3.8		3.4	mg/Kg	1	5/14/2010 06:59 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	5/14/2010 06:59 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/19/2010 11:46 PM
Surr: 4-Bromofluorobenzene	81.3		70-130	%REC	1	5/19/2010 11:46 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 05:12 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 05:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 05:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 05:12 PM
Surr: 4-Bromofluorobenzene	100		75-131	%REC	1	5/17/2010 05:12 PM
Surr: Trifluorotoluene	98.1		73-130	%REC	1	5/17/2010 05:12 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	52.1		4.78	mg/Kg	1	5/18/2010 11:39 PM
Surr: Selenate (surr)	98.3		85-115	%REC	1	5/18/2010 11:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 49-50'

Lab ID: 1005382-06

Collection Date: 5/11/2010 09:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/14/2010 07:18 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/14/2010 07:18 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	5/14/2010 07:18 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/20/2010 12:10 AM
Surr: 4-Bromofluorobenzene	79.6		70-130	%REC	1	5/20/2010 12:10 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 05:31 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 05:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 05:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 05:31 PM
Surr: 4-Bromofluorobenzene	98.3		75-131	%REC	1	5/17/2010 05:31 PM
Surr: Trifluorotoluene	94.8		73-130	%REC	1	5/17/2010 05:31 PM
ANIONS						
			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	50.3		4.73	mg/Kg	1	5/19/2010
Surr: Selenate (surr)	97.0		85-115	%REC	1	5/19/2010

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 60-61'

Lab ID: 1005382-07

Collection Date: 5/11/2010 10:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	6.0		1.7	mg/Kg	1	5/14/2010 07:38 PM
TPH (Motor Oil Range)	58		3.4	mg/Kg	1	5/14/2010 07:38 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	5/14/2010 07:38 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/20/2010 12:34 AM
Surr: 4-Bromofluorobenzene	82.0		70-130	%REC	1	5/20/2010 12:34 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 05:52 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 05:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 05:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 05:52 PM
Surr: 4-Bromofluorobenzene	99.8		75-131	%REC	1	5/17/2010 05:52 PM
Surr: Trifluorotoluene	95.0		73-130	%REC	1	5/17/2010 05:52 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	42.7		4.73	mg/Kg	1	5/19/2010 12:21 AM
Surr: Selenate (surr)	97.8		85-115	%REC	1	5/19/2010 12:21 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-18 69-70'
 Collection Date: 5/11/2010 12:05 PM

Work Order: 1005382
 Lab ID: 1005382-08
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/14/2010 07:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/14/2010 07:57 PM
Surr: 2-Fluorobiphenyl	106		70-130	%REC	1	5/14/2010 07:57 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/20/2010 01:46 AM
Surr: 4-Bromofluorobenzene	80.2		70-130	%REC	1	5/20/2010 01:46 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 06:12 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 06:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 06:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 06:12 PM
Surr: 4-Bromofluorobenzene	99.5		75-131	%REC	1	5/17/2010 06:12 PM
Surr: Trifluorotoluene	95.7		73-130	%REC	1	5/17/2010 06:12 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	70.5		4.99	mg/Kg	1	5/19/2010 12:43 AM
Surr: Selenate (surr)	97.4		85-115	%REC	1	5/19/2010 12:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 79-80'

Lab ID: 1005382-09

Collection Date: 5/11/2010 02:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/14/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/14/2010 04:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/14/2010 04:57 PM
Surr: 2-Fluorobiphenyl	104		70-130	%REC	1	5/14/2010 04:57 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/20/2010 02:10 AM
Surr: 4-Bromofluorobenzene	78.8		70-130	%REC	1	5/20/2010 02:10 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/17/2010 06:32 PM
Toluene	ND		0.0010	mg/Kg	1	5/17/2010 06:32 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/17/2010 06:32 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/17/2010 06:32 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	5/17/2010 06:32 PM
Surr: Trifluorotoluene	98.0		73-130	%REC	1	5/17/2010 06:32 PM
ANIONS			E300		Prep Date: 5/17/2010	Analyst: IGF
Chloride	44.1		4.73	mg/Kg	1	5/19/2010 01:04 AM
Surr: Selenate (surr)	97.6		85-115	%REC	1	5/19/2010 01:04 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: Trip Blank 042710-29

Collection Date: 5/11/2010

Work Order: 1005382

Lab ID: 1005382-10

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/16/2010 01:43 AM
Toluene	ND		0.0010	mg/L	1	5/16/2010 01:43 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/16/2010 01:43 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/16/2010 01:43 AM
Surr: 4-Bromofluorobenzene	96.5		77-129	%REC	1	5/16/2010 01:43 AM
Surr: Trifluorotoluene	88.8		75-130	%REC	1	5/16/2010 01:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company
Work Order: 1005382
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 42940 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 04:57 PM

Client ID: Run ID: FID-7_100514A SeqNo: 1965833 Prep Date: 5/14/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.966	0.10	3.33		0	119	70-130	0		

LCS Sample ID: FLCSS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 05:16 PM

Client ID: Run ID: FID-7_100514A SeqNo: 1965834 Prep Date: 5/14/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	37.29	1.7	33.33		0	112	70-130	0		
TPH (Motor Oil Range)	34.87	3.4	33.33		0	105	70-130	0		
Surr: 2-Fluorobiphenyl	4.212	0.10	3.33		0	126	70-130	0		

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/14/2010 07:38 PM

Client ID: Run ID: FID-7_100514A SeqNo: 1965875 Prep Date: 5/14/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	40.01	1.7	33.26	1.348	116	70-130	0			
TPH (Motor Oil Range)	42.82	3.4	33.26	0.9376	126	70-130	0			
Surr: 2-Fluorobiphenyl	3.802	0.10	3.323		0	114	70-130	0		

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/14/2010 07:57 PM

Client ID: Run ID: FID-7_100514A SeqNo: 1965876 Prep Date: 5/14/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	41.39	1.7	33.32	1.348	120	70-130	40.01	3.38	30	
TPH (Motor Oil Range)	39.94	3.4	33.32	0.9376	117	70-130	42.82	6.96	30	
Surr: 2-Fluorobiphenyl	3.536	0.10	3.329		0	106	70-130	3.802	7.25	30

The following samples were analyzed in this batch:

1005382-01B	1005382-02B	1005382-03B
1005382-04B	1005382-05B	1005382-06B
1005382-07B	1005382-08B	1005382-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005382
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91063** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW2-051510-R91063** Units: **µg/L** Analysis Date: **5/16/2010 01:26 AM**

Client ID: Run ID: **BTEX1_100515B** SeqNo: **1961056** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.11	1.0	30	0	93.7	77-129	0			
Surr: Trifluorotoluene	27.01	1.0	30	0	90	75-130	0			

LCS Sample ID: **BLCSW2-051510-R91063** Units: **µg/L** Analysis Date: **5/16/2010 12:54 AM**

Client ID: Run ID: **BTEX1_100515B** SeqNo: **1961055** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.49	1.0	20	0	112	77-126	0			
Toluene	20.32	1.0	20	0	102	80-124	0			
Ethylbenzene	20.41	1.0	20	0	102	76-125	0			
Xylenes, Total	58.68	3.0	60	0	97.8	79-124	0			
Surr: 4-Bromofluorobenzene	28.69	1.0	30	0	95.6	77-129	0			
Surr: Trifluorotoluene	30.56	1.0	30	0	102	75-130	0			

MS Sample ID: **1005380-02AMS** Units: **µg/L** Analysis Date: **5/16/2010 05:16 AM**

Client ID: Run ID: **BTEX1_100515B** SeqNo: **1961068** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.35	1.0	20	0	122	77-126	0			
Toluene	22.07	1.0	20	0	110	80-124	0			
Ethylbenzene	22.38	1.0	20	0	112	76-125	0			
Xylenes, Total	65.16	3.0	60	0	109	79-124	0			
Surr: 4-Bromofluorobenzene	28.89	1.0	30	0	96.3	77-129	0			
Surr: Trifluorotoluene	29.44	1.0	30	0	98.1	75-130	0			

MSD Sample ID: **1005380-02AMSD** Units: **µg/L** Analysis Date: **5/16/2010 05:33 AM**

Client ID: Run ID: **BTEX1_100515B** SeqNo: **1961069** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.68	1.0	20	0	123	77-126	24.35	1.33	20	
Toluene	22.47	1.0	20	0	112	80-124	22.07	1.79	20	
Ethylbenzene	22.65	1.0	20	0	113	76-125	22.38	1.19	20	
Xylenes, Total	65.72	3.0	60	0	110	79-124	65.16	0.848	20	
Surr: 4-Bromofluorobenzene	28.59	1.0	30	0	95.3	77-129	28.89	1.05	20	
Surr: Trifluorotoluene	29.15	1.0	30	0	97.2	75-130	29.44	0.976	20	

The following samples were analyzed in this batch:

1005382-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005382

Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91168

Instrument ID BTEX3

Method: SW8021B

MBLK Sample ID: BBLKS1-051710-R91168

Units: µg/Kg

Analysis Date: 5/17/2010 11:10 AM

Client ID:

Run ID: BTEX3_100517A

SeqNo: 1963684

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.48	1.0	30	0	94.9	75-131	0			
Surr: Trifluorotoluene	28.88	1.0	30	0	96.3	73-130	0			

LCS Sample ID: BLCSS1-051710-R91168

Units: µg/Kg

Analysis Date: 5/17/2010 10:50 AM

Client ID:

Run ID: BTEX3_100517A

SeqNo: 1963683

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.4	1.0	20	0	97	74-129	0			
Toluene	19.04	1.0	20	0	95.2	75-128	0			
Ethylbenzene	19.66	1.0	20	0	98.3	73-127	0			
Xylenes, Total	58.42	3.0	60	0	97.4	74-127	0			
Surr: 4-Bromofluorobenzene	29.88	1.0	30	0	99.6	75-131	0			
Surr: Trifluorotoluene	29.06	1.0	30	0	96.9	73-130	0			

MS Sample ID: 1005382-01AMS

Units: µg/Kg

Analysis Date: 5/17/2010 03:42 PM

Client ID: MW-18 0-6in

Run ID: BTEX3_100517A

SeqNo: 1963694

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.44	1.0	20	0	92.2	74-129	0			
Toluene	18.22	1.0	20	0	91.1	75-128	0			
Ethylbenzene	17.98	1.0	20	0	89.9	73-127	0			
Xylenes, Total	53.66	3.0	60	0	89.4	74-127	0			
Surr: 4-Bromofluorobenzene	32.11	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	30.22	1.0	30	0	101	73-130	0			

MSD Sample ID: 1005382-01AMSD

Units: µg/Kg

Analysis Date: 5/17/2010 04:01 PM

Client ID: MW-18 0-6in

Run ID: BTEX3_100517A

SeqNo: 1963695

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.5	1.0	20	0	92.5	74-129	18.44	0.309	30	
Toluene	18.4	1.0	20	0	92	75-128	18.22	1.01	30	
Ethylbenzene	18	1.0	20	0	90	73-127	17.98	0.147	30	
Xylenes, Total	52.99	3.0	60	0	88.3	74-127	53.66	1.26	30	
Surr: 4-Bromofluorobenzene	28.55	1.0	30	0	95.2	75-131	32.11	11.7	30	
Surr: Trifluorotoluene	29.07	1.0	30	0	96.9	73-130	30.22	3.89	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005382
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91168** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1005382-01A	1005382-02A	1005382-03A
1005382-04A	1005382-05A	1005382-06A
1005382-07A	1005382-08A	1005382-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005382

Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91452 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 03:13 PM

Client ID: Run ID: FID-9_100519A SeqNo: 1970164 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08416	0.0050	0.1	0	84.2	70-130	0			

LCS Sample ID: GLCSS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 01:55 PM

Client ID: Run ID: FID-9_100519A SeqNo: 1970162 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.165	0.050	1	0	116	70-130	0			
Surr: 4-Bromofluorobenzene	0.08689	0.0050	0.1	0	86.9	70-130	0			

LCSD Sample ID: GLCSDS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 02:19 PM

Client ID: Run ID: FID-9_100519A SeqNo: 1970163 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.134	0.050	1	0	113	70-130	1.165	2.63	30	
Surr: 4-Bromofluorobenzene	0.08509	0.0050	0.1	0	85.1	70-130	0.08689	2.09	30	

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/19/2010 09:07 PM

Client ID: Run ID: FID-9_100519A SeqNo: 1970172 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.111	0.050	1	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	0.0826	0.0050	0.1	0	82.6	70-130	0			

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/19/2010 09:30 PM

Client ID: Run ID: FID-9_100519A SeqNo: 1970173 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.109	0.050	1	0	111	70-130	1.111	0.202	30	
Surr: 4-Bromofluorobenzene	0.08118	0.0050	0.1	0	81.2	70-130	0.0826	1.73	30	

The following samples were analyzed in this batch:

1005382-01B	1005382-02B	1005382-03B
1005382-04B	1005382-05B	1005382-06B
1005382-07B	1005382-08B	1005382-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005382
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43036 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-051710-43036 Units: mg/Kg Analysis Date: 5/18/2010 06:19 PM
 Client ID: Run ID: ICS3000_100518A SeqNo: 1964357 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	48.36	1.0	50	0	96.7	85-115	0			

LCS Sample ID: WLCSS1-051710-43036 Units: mg/Kg Analysis Date: 5/18/2010 06:40 PM
 Client ID: Run ID: ICS3000_100518A SeqNo: 1964358 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	196	5.0	200	0	98	90-110	0			
Surr: Selenate (surr)	48.52	1.0	50	0	97	85-115	0			

MS Sample ID: 1005305-02AMS Units: mg/Kg Analysis Date: 5/18/2010 08:27 PM
 Client ID: Run ID: ICS3000_100518A SeqNo: 1964364 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	103.6	4.9	97.81	2.318	104	75-125	0			
Surr: Selenate (surr)	47.49	0.98	48.9	0	97.1	80-120	0			

MS Sample ID: 1005382-09BMS Units: mg/Kg Analysis Date: 5/19/2010 01:25 AM
 Client ID: MW-18 79-80' Run ID: ICS3000_100518A SeqNo: 1964377 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	134.7	4.7	94.52	44.15	95.8	75-125	0			
Surr: Selenate (surr)	48.73	0.94	47.26	0	103	80-120	0			

MSD Sample ID: 1005305-02AMSD Units: mg/Kg Analysis Date: 5/18/2010 08:48 PM
 Client ID: Run ID: ICS3000_100518A SeqNo: 1964365 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	103.8	4.9	97.81	2.318	104	75-125	103.6	0.208	20	
Surr: Selenate (surr)	47.94	0.98	48.9	0	98	80-120	47.49	0.943	20	

MSD Sample ID: 1005382-09BMSD Units: mg/Kg Analysis Date: 5/19/2010 01:47 AM
 Client ID: MW-18 79-80' Run ID: ICS3000_100518A SeqNo: 1964378 Prep Date: 5/17/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	134.6	4.7	94.52	44.15	95.7	75-125	134.7	0.0913	20	
Surr: Selenate (surr)	48.74	0.94	47.26	0	103	80-120	48.73	0.0194	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005382

Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43036

Instrument ID ICS3000

Method: E300

The following samples were analyzed in this batch:

1005382-01B	1005382-02B	1005382-03B
1005382-04B	1005382-05B	1005382-06B
1005382-07B	1005382-08B	1005382-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

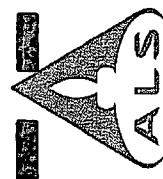
Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1005382

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



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Customer Information				Project Information				ALS Project Manager: <u>ALS Work Order #: 105381</u>											
Project Name: Lea Refinery New Wells				Project Number: NAV-10-003				Parameter/Method Request for Analysis											
Bill To Company: Navajo Refining Company				Invoice Attn: Darrell Moore				BTEX (8021)											
P.O. Box 159				City/State/Zip: Artesia, NM 88211				GRO (8015M)											
Address: P.O. Box 159				Phone: (505) 748-3311				DRO (8015M)											
Fax: (505) 746-5421				Fax: (505) 746-5421				ORO (8015M)											
e-Mail Address: dghoyer@SESI-NM.com				e-Mail Address:				chloride											
No.	Sample Description	Date	Time	Matrix	Pres.	#Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MCW-18 0-6 in	5/12/10	1825	Soil	8	2	X	X	X	X	X								
2	9-18'		1050				X	X	X	X	X								
3	19-20'		1155				X	X	X	X	X								
4	27-29'	5/10/10	1230				X	X	X	X	X								
5	39-40'	5/11/10	0850				X	X	X	X	X								
6	49-50'		0935				X	X	X	X	X								
7	60-61'		1020				X	X	X	X	X								
8	69-70'		1205				X	X	X	X	X								
9	79-80'	5/11/10	1430	Soil	8	2	X	X	X	X	X								
10	TRIP Blank 042710-29			H ₂ O	1, 8	2	X	X	X	X	X								

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time (Check Box)	Results Due Date
<u>D. Boyer</u>	<u>FEDEX</u>	☒ 5-10 Wk Days ☐ 1-2 Wk Days ☐ 3-4 Wk Days	<u>5/14/10</u>

Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:
<u>RA Boyer</u>	<u>5/12/10</u>	<u>1615</u>	<u>SLR</u>	<u>5/10/10</u>	<u>0930</u>

Relinquished by:	Date:	Time:	Checked by (Laboratory):	Date:	Time:
<u>RA Boyer</u>	<u>5/12/10</u>	<u>1615</u>	<u>SLR</u>	<u>5/10/10</u>	<u>0930</u>

Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₃	7-Other	8-4°C	9-5035

QC Package: (Check One Box Below)	QC Packager: (Check One Box Below)
☒ Level II Std QC ☐ TRRP Check List	☒ Level II Std QC ☐ TRRP Level IV
☐ Level III Std QC (Raw Data) ☐ TRRP Level IV	☐ Level IV SW946/CLP ☐ Other

Notes: 10 Day TAT. Cc Dave Boyer

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **13-May-10 08:50**

Work Order: **1005382**

Received by: **RSZ**

Checklist completed by Robert D. Harris
eSignature

13-May-10
Date

Reviewed by:

eSignature

Date

Matrices: soils/water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

2.6c

002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

=====

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

10000

This portion can be removed for Recipient's records.

to 5/12/10 FedEx Tracking Number 869809949890

Sender's Name S. BAYER Phone 513-077-1112

Company SEN

Address 109 E. CLINTON

City Houston State TX ZIP 77002

For Internal Billing Reference

 **ALS Laboratory Group**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel: +1 281 530 5656
Fax: +1 281 530 5887

CUSTODY SEAL
Date: 5/12/10 Time: 1645
Name: S. BAYER
Company: SEN

Seal Broken By:

Date: 5/13/10

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

07-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005714

Dear Darrell,

ALS Laboratory Group received 22 samples on 21-May-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005714

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005714-01	MW-18 90'	Soil		5/13/2010 10:05	5/21/2010 09:00	☐
1005714-02	MW-19 10'	Soil		5/19/2010 08:40	5/21/2010 09:00	☐
1005714-03	MW-19 20'	Soil		5/19/2010 08:50	5/21/2010 09:00	☐
1005714-04	MW-19 30'	Soil		5/19/2010 09:05	5/21/2010 09:00	☐
1005714-05	MW-19 40'	Soil		5/19/2010 09:20	5/21/2010 09:00	☐
1005714-06	MW-19 50'	Soil		5/19/2010 09:30	5/21/2010 09:00	☐
1005714-07	MW-19 60'	Soil		5/19/2010 09:40	5/21/2010 09:00	☐
1005714-08	MW-19 70'	Soil		5/19/2010 09:50	5/21/2010 09:00	☐
1005714-09	MW-19 80'	Soil		5/19/2010 10:05	5/21/2010 09:00	☐
1005714-10	MW-19 90'	Soil		5/19/2010 10:30	5/21/2010 09:00	☐
1005714-11	MW-19 100'	Soil		5/19/2010 10:40	5/21/2010 09:00	☐
1005714-12	MW-20 10'	Soil		5/20/2010 08:15	5/21/2010 09:00	☐
1005714-13	MW-20 20'	Soil		5/20/2010 08:25	5/21/2010 09:00	☐
1005714-14	MW-20 30'	Soil		5/20/2010 08:55	5/21/2010 09:00	☐
1005714-15	MW-20 40'	Soil		5/20/2010 09:15	5/21/2010 09:00	☐
1005714-16	MW-20 50'	Soil		5/20/2010 09:25	5/21/2010 09:00	☐
1005714-17	MW-20 60'	Soil		5/20/2010 09:40	5/21/2010 09:00	☐
1005714-18	MW-20 70'	Soil		5/20/2010 09:55	5/21/2010 09:00	☐
1005714-19	MW-20 80'	Soil		5/20/2010 10:20	5/21/2010 09:00	☐
1005714-20	MW-20 90'	Soil		5/20/2010 10:30	5/21/2010 09:00	☐
1005714-21	MW-20 95'	Soil		5/20/2010 10:40	5/21/2010 09:00	☐
1005714-22	Trip Blank	Water		5/20/2010	5/21/2010 09:00	☐

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005714

Case Narrative

BTEX (Sample 1005714-01) recovery out of control limits due to matrix. Confirmed by re-analysis.

TPH (sample 1005714-18 and 19) recovery high out of control limits for surrogate. Sample non detect.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-18 90'
 Collection Date: 5/13/2010 10:05 AM

Work Order: 1005714
 Lab ID: 1005714-01
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	20		8.5	mg/Kg	5	6/7/2010 10:54 AM
TPH (Motor Oil Range)	130		17	mg/Kg	5	6/7/2010 10:54 AM
Surr: 2-Fluorobiphenyl	71.2		70-130	%REC	5	6/7/2010 10:54 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 05:34 PM
Surr: 4-Bromofluorobenzene	86.5		70-130	%REC	1	5/26/2010 05:34 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/23/2010 08:39 AM
Toluene	ND		0.0010	mg/Kg	1	5/23/2010 08:39 AM
Ethylbenzene	0.0013		0.0010	mg/Kg	1	5/23/2010 08:39 AM
Xylenes, Total	0.0043		0.0030	mg/Kg	1	5/23/2010 08:39 AM
Surr: 4-Bromofluorobenzene	42.5	S	75-131	%REC	1	5/23/2010 08:39 AM
Surr: Trifluorotoluene	48.9	S	73-130	%REC	1	5/23/2010 08:39 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	25.7		4.99	mg/Kg	1	5/27/2010 08:07 PM
Surr: Selenate (surr)	95.8		85-115	%REC	1	5/27/2010 08:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 10'
Collection Date: 5/19/2010 08:40 AM

Work Order: 1005714
Lab ID: 1005714-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 5/27/2010 Analyst: KMB 6/7/2010 10:35 AM
TPH (Motor Oil Range)	12		3.4 mg/Kg		1	6/7/2010 10:35 AM
Surr: 2-Fluorobiphenyl	127		70-130 %REC		1	6/7/2010 10:35 AM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 5/26/2010 06:12 PM
Surr: 4-Bromofluorobenzene	87.5		70-130 %REC		1	5/26/2010 06:12 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 5/24/2010 05:51 PM
Toluene	ND		0.0010 mg/Kg		1	5/24/2010 05:51 PM
Ethylbenzene	ND		0.0010 mg/Kg		1	5/24/2010 05:51 PM
Xylenes, Total	ND		0.0030 mg/Kg		1	5/24/2010 05:51 PM
Surr: 4-Bromofluorobenzene	96.2		75-131 %REC		1	5/24/2010 05:51 PM
Surr: Trifluorotoluene	102		73-130 %REC		1	5/24/2010 05:51 PM
ANIONS						
Chloride	1,620		E300	48.2 mg/Kg	10	Prep Date: 5/26/2010 Analyst: IGF 5/27/2010 08:21 PM
Surr: Selenate (surr)	94.4		85-115 %REC		10	5/27/2010 08:21 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 20'
Collection Date: 5/19/2010 08:50 AM

Work Order: 1005714
Lab ID: 1005714-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 10:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 10:17 PM
Surr: 2-Fluorobiphenyl	121		70-130	%REC	1	5/29/2010 10:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 06:36 PM
Surr: 4-Bromofluorobenzene	85.9		70-130	%REC	1	5/26/2010 06:36 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 06:11 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 06:11 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 06:11 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 06:11 PM
Surr: 4-Bromofluorobenzene	95.1		75-131	%REC	1	5/24/2010 06:11 PM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	5/24/2010 06:11 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	153		4.89	mg/Kg	1	5/27/2010 08:36 PM
Surr: Selenate (surr)	96.3		85-115	%REC	1	5/27/2010 08:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-19 30'
 Collection Date: 5/19/2010 09:05 AM

Work Order: 1005714
 Lab ID: 1005714-04
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 10:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 10:36 PM
Surr: 2-Fluorobiphenyl	95.9		70-130	%REC	1	5/29/2010 10:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 07:00 PM
Surr: 4-Bromofluorobenzene	86.9		70-130	%REC	1	5/26/2010 07:00 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 06:31 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 06:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 06:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 06:31 PM
Surr: 4-Bromofluorobenzene	98.7		75-131	%REC	1	5/24/2010 06:31 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	5/24/2010 06:31 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	268		4.76	mg/Kg	1	5/27/2010 08:50 PM
Surr: Selenate (surr)	97.2		85-115	%REC	1	5/27/2010 08:50 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 40'
Collection Date: 5/19/2010 09:20 AM

Work Order: 1005714
Lab ID: 1005714-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 10:56 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 10:56 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	5/29/2010 10:56 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 07:24 PM
Surr: 4-Bromofluorobenzene	85.8		70-130	%REC	1	5/26/2010 07:24 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 06:51 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 06:51 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 06:51 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 06:51 PM
Surr: 4-Bromofluorobenzene	97.9		75-131	%REC	1	5/24/2010 06:51 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/24/2010 06:51 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	144		4.84	mg/Kg	1	5/27/2010 09:05 PM
Surr: Selenate (surr)	93.3		85-115	%REC	1	5/27/2010 09:05 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 50'
Collection Date: 5/19/2010 09:30 AM

Work Order: 1005714
Lab ID: 1005714-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 11:15 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 11:15 PM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	5/29/2010 11:15 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 07:48 PM
Surr: 4-Bromofluorobenzene	85.2		70-130	%REC	1	5/26/2010 07:48 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 08:31 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 08:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 08:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 08:31 PM
Surr: 4-Bromofluorobenzene	100		75-131	%REC	1	5/24/2010 08:31 PM
Surr: Trifluorotoluene	106		73-130	%REC	1	5/24/2010 08:31 PM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	119		4.76	mg/Kg	1	5/27/2010 09:19 PM
Surr: Selenate (surr)	97.4		85-115	%REC	1	5/27/2010 09:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 60'
Collection Date: 5/19/2010 09:40 AM

Work Order: 1005714
Lab ID: 1005714-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 11:34 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 11:34 PM
Surr: 2-Fluorobiphenyl	96.8		70-130	%REC	1	5/29/2010 11:34 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 09:50 PM
Surr: 4-Bromofluorobenzene	80.4		70-130	%REC	1	5/26/2010 09:50 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 08:52 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 08:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 08:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 08:52 PM
Surr: 4-Bromofluorobenzene	98.7		75-131	%REC	1	5/24/2010 08:52 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	5/24/2010 08:52 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	99.2		4.97	mg/Kg	1	5/27/2010 09:34 PM
Surr: Selenate (surr)	95.3		85-115	%REC	1	5/27/2010 09:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-19 70'

Lab ID: 1005714-08

Collection Date: 5/19/2010 09:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 11:54 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 11:54 PM
Surr: 2-Fluorobiphenyl	115		70-130	%REC	1	5/29/2010 11:54 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 10:14 PM
Surr: 4-Bromofluorobenzene	74.9		70-130	%REC	1	5/26/2010 10:14 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 09:12 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 09:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 09:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 09:12 PM
Surr: 4-Bromofluorobenzene	97.3		75-131	%REC	1	5/24/2010 09:12 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/24/2010 09:12 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	107		4.76	mg/Kg	1	5/27/2010 09:48 PM
Surr: Selenate (surr)	97.3		85-115	%REC	1	5/27/2010 09:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 80'
Collection Date: 5/19/2010 10:05 AM

Work Order: 1005714
Lab ID: 1005714-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 12:14 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 12:14 AM
Surr: 2-Fluorobiphenyl	127		70-130	%REC	1	5/30/2010 12:14 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 10:38 PM
Surr: 4-Bromofluorobenzene	75.0		70-130	%REC	1	5/26/2010 10:38 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 09:32 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 09:32 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 09:32 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 09:32 PM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1	5/24/2010 09:32 PM
Surr: Trifluorotoluene	105		73-130	%REC	1	5/24/2010 09:32 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	41.8		5.00	mg/Kg	1	5/27/2010 10:47 PM
Surr: Selenate (surr)	97.8		85-115	%REC	1	5/27/2010 10:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 90'
Collection Date: 5/19/2010 10:30 AM

Work Order: 1005714
Lab ID: 1005714-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 12:33 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 12:33 AM
Surr: 2-Fluorobiphenyl	134	S	70-130	%REC	1	5/30/2010 12:33 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 11:02 PM
Surr: 4-Bromofluorobenzene	73.8		70-130	%REC	1	5/26/2010 11:02 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 09:52 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 09:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 09:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 09:52 PM
Surr: 4-Bromofluorobenzene	98.2		75-131	%REC	1	5/24/2010 09:52 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/24/2010 09:52 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	55.2		4.77	mg/Kg	1	5/27/2010 11:01 PM
Surr: Selenate (surr)	95.6		85-115	%REC	1	5/27/2010 11:01 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-19 100'
Collection Date: 5/19/2010 10:40 AM

Work Order: 1005714
Lab ID: 1005714-11
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 01:31 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 01:31 AM
Surr: 2-Fluorobiphenyl	99.6		70-130	%REC	1	5/30/2010 01:31 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 11:26 PM
Surr: 4-Bromofluorobenzene	73.8		70-130	%REC	1	5/26/2010 11:26 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 10:13 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 10:13 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 10:13 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 10:13 PM
Surr: 4-Bromofluorobenzene	94.7		75-131	%REC	1	5/24/2010 10:13 PM
Surr: Trifluorotoluene	99.4		73-130	%REC	1	5/24/2010 10:13 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	206		4.73	mg/Kg	1	5/27/2010 11:16 PM
Surr: Selenate (surr)	97.2		85-115	%REC	1	5/27/2010 11:16 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-20 10'
 Collection Date: 5/20/2010 08:15 AM

Work Order: 1005714
 Lab ID: 1005714-12
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 01:50 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 01:50 AM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	5/30/2010 01:50 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/26/2010 11:50 PM
Surr: 4-Bromofluorobenzene	75.0		70-130	%REC	1	5/26/2010 11:50 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 10:32 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 10:32 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 10:32 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 10:32 PM
Surr: 4-Bromofluorobenzene	99.6		75-131	%REC	1	5/24/2010 10:32 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/24/2010 10:32 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	11.6		4.82	mg/Kg	1	5/27/2010 11:59 PM
Surr: Selenate (surr)	95.6		85-115	%REC	1	5/27/2010 11:59 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 20'
Collection Date: 5/20/2010 08:25 AM

Work Order: 1005714
Lab ID: 1005714-13
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:10 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:10 AM
Surr: 2-Fluorobiphenyl	120		70-130	%REC	1	5/30/2010 02:10 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 12:14 AM
Surr: 4-Bromofluorobenzene	72.0		70-130	%REC	1	5/27/2010 12:14 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 10:52 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 10:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 10:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 10:52 PM
Surr: 4-Bromofluorobenzene	94.2		75-131	%REC	1	5/24/2010 10:52 PM
Surr: Trifluorotoluene	99.4		73-130	%REC	1	5/24/2010 10:52 PM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	6.87		4.90	mg/Kg	1	5/28/2010 12:14 AM
Surr: Selenate (surr)	97.2		85-115	%REC	1	5/28/2010 12:14 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 30'
Collection Date: 5/20/2010 08:55 AM

Work Order: 1005714
Lab ID: 1005714-14
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:29 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:29 AM
Surr: 2-Fluorobiphenyl	126		70-130	%REC	1	5/30/2010 02:29 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 12:38 AM
Surr: 4-Bromofluorobenzene	81.1		70-130	%REC	1	5/27/2010 12:38 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/24/2010 11:52 PM
Toluene	ND		0.0010	mg/Kg	1	5/24/2010 11:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/24/2010 11:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/24/2010 11:52 PM
Surr: 4-Bromofluorobenzene	99.9		75-131	%REC	1	5/24/2010 11:52 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	5/24/2010 11:52 PM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	13.5		4.92	mg/Kg	1	5/28/2010 12:29 AM
Surr: Selenate (surr)	97.7		85-115	%REC	1	5/28/2010 12:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 40'
Collection Date: 5/20/2010 09:15 AM

Work Order: 1005714
Lab ID: 1005714-15
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:48 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:48 AM
Surr: 2-Fluorobiphenyl	120		70-130	%REC	1	5/30/2010 02:48 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 01:02 AM
Surr: 4-Bromofluorobenzene	80.4		70-130	%REC	1	5/27/2010 01:02 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/25/2010 12:12 AM
Toluene	ND		0.0010	mg/Kg	1	5/25/2010 12:12 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/25/2010 12:12 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/25/2010 12:12 AM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1	5/25/2010 12:12 AM
Surr: Trifluorotoluene	104		73-130	%REC	1	5/25/2010 12:12 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.73	mg/Kg	1	5/28/2010 12:43 AM
Surr: Selenate (surr)	94.7		85-115	%REC	1	5/28/2010 12:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-20 50'
 Collection Date: 5/20/2010 09:25 AM

Work Order: 1005714
 Lab ID: 1005714-16
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:08 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:08 AM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	5/30/2010 03:08 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 01:26 AM
Surr: 4-Bromofluorobenzene	79.4		70-130	%REC	1	5/27/2010 01:26 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/25/2010 12:32 AM
Toluene	ND		0.0010	mg/Kg	1	5/25/2010 12:32 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/25/2010 12:32 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/25/2010 12:32 AM
Surr: 4-Bromofluorobenzene	98.3		75-131	%REC	1	5/25/2010 12:32 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/25/2010 12:32 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.88	mg/Kg	1	5/28/2010 12:58 AM
Surr: Selenate (surr)	97.7		85-115	%REC	1	5/28/2010 12:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 60'
Collection Date: 5/20/2010 09:40 AM

Work Order: 1005714
Lab ID: 1005714-17
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:27 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:27 AM
Surr: 2-Fluorobiphenyl	127		70-130	%REC	1	5/30/2010 03:27 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 02:38 AM
Surr: 4-Bromofluorobenzene	80.1		70-130	%REC	1	5/27/2010 02:38 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/25/2010 12:52 AM
Toluene	ND		0.0010	mg/Kg	1	5/25/2010 12:52 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/25/2010 12:52 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/25/2010 12:52 AM
Surr: 4-Bromofluorobenzene	100		75-131	%REC	1	5/25/2010 12:52 AM
Surr: Trifluorotoluene	103		73-130	%REC	1	5/25/2010 12:52 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	11.3		4.85	mg/Kg	1	5/28/2010 01:56 AM
Surr: Selenate (surr)	98.3		85-115	%REC	1	5/28/2010 01:56 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 70'
Collection Date: 5/20/2010 09:55 AM

Work Order: 1005714
Lab ID: 1005714-18
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:46 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:46 AM
Surr: 2-Fluorobiphenyl	185	S	70-130	%REC	1	5/30/2010 03:46 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 03:01 AM
Surr: 4-Bromofluorobenzene	79.9		70-130	%REC	1	5/27/2010 03:01 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/25/2010 01:12 AM
Toluene	ND		0.0010	mg/Kg	1	5/25/2010 01:12 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/25/2010 01:12 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/25/2010 01:12 AM
Surr: 4-Bromofluorobenzene	96.8		75-131	%REC	1	5/25/2010 01:12 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/25/2010 01:12 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.94	mg/Kg	1	5/28/2010 02:10 AM
Surr: Selenate (surr)	93.3		85-115	%REC	1	5/28/2010 02:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 80'
Collection Date: 5/20/2010 10:20 AM

Work Order: 1005714
Lab ID: 1005714-19
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 04:06 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 04:06 AM
Surr: 2-Fluorobiphenyl	134	S	70-130	%REC	1	5/30/2010 04:06 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 03:25 AM
Surr: 4-Bromofluorobenzene	80.0		70-130	%REC	1	5/27/2010 03:25 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 10:10 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 10:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 10:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 10:10 PM
Surr: 4-Bromofluorobenzene	91.6		75-131	%REC	1	5/26/2010 10:10 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	5/26/2010 10:10 PM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	5/28/2010 02:25 AM
Surr: Selenate (surr)	97.6		85-115	%REC	1	5/28/2010 02:25 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-20 90'

Lab ID: 1005714-20

Collection Date: 5/20/2010 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/27/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 04:25 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 04:25 AM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	1	5/30/2010 04:25 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 03:49 AM
Surr: 4-Bromofluorobenzene	79.3		70-130	%REC	1	5/27/2010 03:49 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 10:30 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 10:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 10:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 10:30 PM
Surr: 4-Bromofluorobenzene	88.5		75-131	%REC	1	5/26/2010 10:30 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/26/2010 10:30 PM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.64	mg/Kg	1	5/28/2010 02:39 AM
Surr: Selenate (surr)	101		85-115	%REC	1	5/28/2010 02:39 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-20 95'
Collection Date: 5/20/2010 10:40 AM

Work Order: 1005714
Lab ID: 1005714-21
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 09:38 PM
TPH (Motor Oil Range)	5.1		3.4	mg/Kg	1	5/29/2010 09:38 PM
Surr: 2-Fluorobiphenyl	117		70-130	%REC	1	5/29/2010 09:38 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 05:49 AM
Surr: 4-Bromofluorobenzene	78.7		70-130	%REC	1	5/27/2010 05:49 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 10:50 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 10:50 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 10:50 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 10:50 PM
Surr: 4-Bromofluorobenzene	87.8		75-131	%REC	1	5/26/2010 10:50 PM
Surr: Trifluorotoluene	99.6		73-130	%REC	1	5/26/2010 10:50 PM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	6.89		4.96	mg/Kg	1	5/29/2010 12:35 PM
Surr: Selenate (surr)	104		85-115	%REC	1	5/29/2010 12:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: Trip Blank
 Collection Date: 5/20/2010

Work Order: 1005714
 Lab ID: 1005714-22
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/27/2010 09:58 AM
Toluene	ND		0.0010	mg/L	1	5/27/2010 09:58 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/27/2010 09:58 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/27/2010 09:58 AM
Surr: 4-Bromofluorobenzene	101		77-129	%REC	1	5/27/2010 09:58 AM
Surr: Trifluorotoluene	102		75-130	%REC	1	5/27/2010 09:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43293 Instrument ID FID-8 Method: SW8015M

MBLK	Sample ID: FBLKS1-100527-43293				Units: mg/Kg		Analysis Date: 5/29/2010 08:59 PM			
Client ID:	Run ID: FID-8_100527B				SeqNo: 1984800		Prep Date: 5/27/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	4.015	0.10	3.33	0	121	70-130	0			

LCS	Sample ID: FLCSS1-100527-43293				Units: mg/Kg		Analysis Date: 5/29/2010 09:19 PM			
Client ID:	Run ID: FID-8_100527B				SeqNo: 1984801		Prep Date: 5/27/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	42.45	1.7	33.33	0	127	70-130	0			
TPH (Motor Oil Range)	34.16	3.4	33.33	0	102	70-130	0			
Surr: 2-Fluorobiphenyl	3.99	0.10	3.33	0	120	70-130	0			

MS	Sample ID: 1005714-20BMS				Units: mg/Kg		Analysis Date: 5/30/2010 04:45 AM				
Client ID: MW-20 90'			Run ID: FID-8_100527B			SeqNo: 1984821		Prep Date: 5/27/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
TPH (Diesel Range)	42.57	1.7	33.3	0.2599	127	70-130	0				
TPH (Motor Oil Range)	40.56	3.4	33.3	0.4578	120	70-130	0				
Surr: 2-Fluorobiphenyl	4.184	0.10	3.327	0	126	70-130	0				

MSD	Sample ID: 1005714-20BMSD				Units: mg/Kg		Analysis Date: 5/30/2010 05:04 AM			
Client ID: MW-20 90'			Run ID: FID-8_100527B			SeqNo: 1984823		Prep Date: 5/27/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	40.81	1.7	33.25	0.2599	122	70-130	42.57	4.24	30	
TPH (Motor Oil Range)	39.08	3.4	33.25	0.4578	116	70-130	40.56	3.72	30	
Surr: 2-Fluorobiphenyl	4.312	0.10	3.322	0	130	70-130	4.184	3.01	30	

The following samples were analyzed in this batch:

1005714-01B	1005714-02B	1005714-03B
1005714-04B	1005714-05B	1005714-06B
1005714-07B	1005714-08B	1005714-09B
1005714-10B	1005714-11B	1005714-12B
1005714-13B	1005714-14B	1005714-15B
1005714-16B	1005714-17B	1005714-18B
1005714-19B	1005714-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43311** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 08:59 PM**
Client ID: Run ID: **FID-7_100528A** SeqNo: **1984874** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.084	0.10	3.33	0	92.6	70-130	0			

LCS Sample ID: **FLCSS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 09:19 PM**
Client ID: Run ID: **FID-7_100528A** SeqNo: **1984875** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.69	1.7	33.33	0	80.1	70-130	0			
TPH (Motor Oil Range)	35.47	3.4	33.33	0	106	70-130	0			
Surr: 2-Fluorobiphenyl	3.881	0.10	3.33	0	117	70-130	0			

MS Sample ID: **1005814-03BMS** Units: **mg/Kg** Analysis Date: **5/29/2010 10:56 PM**
Client ID: Run ID: **FID-7_100528A** SeqNo: **1984878** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	28.46	1.7	33.26	0	85.6	70-130	0			
TPH (Motor Oil Range)	41.16	3.4	33.26	0.3047	123	70-130	0			
Surr: 2-Fluorobiphenyl	3.718	0.10	3.323	0	112	70-130	0			

MSD Sample ID: **1005814-03BMSD** Units: **mg/Kg** Analysis Date: **5/29/2010 11:15 PM**
Client ID: Run ID: **FID-7_100528A** SeqNo: **1984879** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.12	1.7	33.23	0	87.6	70-130	28.46	2.27	30	
TPH (Motor Oil Range)	41.63	3.4	33.23	0.3047	124	70-130	41.16	1.12	30	
Surr: 2-Fluorobiphenyl	3.499	0.10	3.32	0	105	70-130	3.718	6.06	30	

The following samples were analyzed in this batch:

1005714-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005714
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91436 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS2-052210-R91436 Units: µg/Kg Analysis Date: 5/23/2010 12:41 AM

Client ID: Run ID: BTEX3_100522B SeqNo: 1969904 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.95	1.0	30	0	93.2	75-131	0			
Surr: Trifluorotoluene	27.71	1.0	30	0	92.4	73-130	0			

LCS Sample ID: BLCSS2-052210-R91436 Units: µg/Kg Analysis Date: 5/23/2010 12:01 AM

Client ID: Run ID: BTEX3_100522B SeqNo: 1969903 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.93	1.0	20	0	94.6	74-129	0			
Toluene	18.99	1.0	20	0	94.9	75-128	0			
Ethylbenzene	18.96	1.0	20	0	94.8	73-127	0			
Xylenes, Total	56.77	3.0	60	0	94.6	74-127	0			
Surr: 4-Bromofluorobenzene	29.47	1.0	30	0	98.2	75-131	0			
Surr: Trifluorotoluene	28.35	1.0	30	0	94.5	73-130	0			

MS Sample ID: 1005645-01AMS Units: µg/Kg Analysis Date: 5/23/2010 05:00 AM

Client ID: Run ID: BTEX3_100522B SeqNo: 1969921 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.23	1.0	20	0	91.1	74-129	0			
Toluene	18.27	1.0	20	0	91.3	75-128	0			
Ethylbenzene	18.24	1.0	20	0	91.2	73-127	0			
Xylenes, Total	54.26	3.0	60	0.9748	88.8	74-127	0			
Surr: 4-Bromofluorobenzene	28.28	1.0	30	0	94.3	75-131	0			
Surr: Trifluorotoluene	27.05	1.0	30	0	90.2	73-130	0			

MSD Sample ID: 1005645-01AMSD Units: µg/Kg Analysis Date: 5/23/2010 05:20 AM

Client ID: Run ID: BTEX3_100522B SeqNo: 1969922 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.82	1.0	20	0	94.1	74-129	18.23	3.21	30	
Toluene	18.9	1.0	20	0	94.5	75-128	18.27	3.4	30	
Ethylbenzene	19.01	1.0	20	0	95	73-127	18.24	4.13	30	
Xylenes, Total	57.39	3.0	60	0.9748	94	74-127	54.26	5.61	30	
Surr: 4-Bromofluorobenzene	30.24	1.0	30	0	101	75-131	28.28	6.73	30	
Surr: Trifluorotoluene	28.84	1.0	30	0	96.1	73-130	27.05	6.42	30	

The following samples were analyzed in this batch: 1005714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005714
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91455 Instrument ID BTEX3 Method: SW8021B

MBLK	Sample ID: BBLKS1-052210-R91455				Units: µg/Kg		Analysis Date: 5/24/2010 04:17 PM			
Client ID:	Run ID: BTEX3_100524A				SeqNo: 1970217		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.04	1.0	30	0	96.8	75-131	0			
Surr: Trifluorotoluene	30.94	1.0	30	0	103	73-130	0			

LCS	Sample ID: BLCSS1-052210-R91455				Units: µg/Kg		Analysis Date: 5/24/2010 03:50 PM			
Client ID: .	Run ID: BTEX3_100524A				SeqNo: 1970216		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.32	1.0	20	0	102	74-129	0			
Toluene	20.48	1.0	20	0	102	75-128	0			
Ethylbenzene	21.46	1.0	20	0	107	73-127	0			
Xylenes, Total	63.22	3.0	60	0	105	74-127	0			
Surr: 4-Bromofluorobenzene	29.17	1.0	30	0	97.2	75-131	0			
Surr: Trifluorotoluene	30.5	1.0	30	0	102	73-130	0			

MS	Sample ID: 1005668-08AMS				Units: µg/Kg		Analysis Date: 5/24/2010 05:00 PM			
Client ID:	Run ID: BTEX3_100524A				SeqNo: 1970219		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.73	1.0	20	0	104	74-129	0			
Toluene	20.76	1.0	20	0	104	75-128	0			
Ethylbenzene	21.25	1.0	20	0	106	73-127	0			
Xylenes, Total	63.44	3.0	60	0	106	74-127	0			
Surr: 4-Bromofluorobenzene	29.8	1.0	30	0	99.3	75-131	0			
Surr: Trifluorotoluene	30.86	1.0	30	0	103	73-130	0			

MSD	Sample ID: 1005668-08AMSD				Units: µg/Kg		Analysis Date: 5/24/2010 05:20 PM			
Client ID:	Run ID: BTEX3_100524A				SeqNo: 1970220		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.33	1.0	20	0	102	74-129	20.73	1.93	30	
Toluene	20.53	1.0	20	0	103	75-128	20.76	1.12	30	
Ethylbenzene	21.26	1.0	20	0	106	73-127	21.25	0.0725	30	
Xylenes, Total	62.76	3.0	60	0	105	74-127	63.44	1.08	30	
Surr: 4-Bromofluorobenzene	29.23	1.0	30	0	97.4	75-131	29.8	1.95	30	
Surr: Trifluorotoluene	30.56	1.0	30	0	102	73-130	30.86	0.972	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91455** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1005714-02A	1005714-03A	1005714-04A
1005714-05A	1005714-06A	1005714-07A
1005714-08A	1005714-09A	1005714-10A
1005714-11A	1005714-12A	1005714-13A
1005714-14A	1005714-15A	1005714-16A
1005714-17A	1005714-18A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91620** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW1-052710-R91620** Units: **µg/L** Analysis Date: **5/27/2010 09:08 AM**

Client ID: Run ID: **BTEX1_100526B** SeqNo: **1974193** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.93	1.0	30	0	99.8	77-129	0			
Surr: Trifluorotoluene	30.87	1.0	30	0	103	75-130	0			

MBLK Sample ID: **BBLKW1-052710-R91620** Units: **µg/L** Analysis Date: **5/27/2010 09:25 AM**

Client ID: Run ID: **BTEX1_100526B** SeqNo: **1974194** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.07	1.0	30	0	100	77-129	0			
Surr: Trifluorotoluene	31.43	1.0	30	0	105	75-130	0			

LCS Sample ID: **BLCSW1-052710-R91620** Units: **µg/L** Analysis Date: **5/27/2010 08:51 AM**

Client ID: Run ID: **BTEX1_100526B** SeqNo: **1974192** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.23	1.0	20	0	116	77-126	0			
Toluene	21.54	1.0	20	0	108	80-124	0			
Ethylbenzene	20.29	1.0	20	0	101	76-125	0			
Xylenes, Total	60.33	3.0	60	0	101	79-124	0			
Surr: 4-Bromofluorobenzene	30.24	1.0	30	0	101	77-129	0			
Surr: Trifluorotoluene	32.14	1.0	30	0	107	75-130	0			

MS Sample ID: **1005676-08AMS** Units: **µg/L** Analysis Date: **5/27/2010 11:57 AM**

Client ID: Run ID: **BTEX1_100526B** SeqNo: **1974203** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.26	1.0	20	0	116	77-126	0			
Toluene	21.37	1.0	20	0.5511	104	80-124	0			
Ethylbenzene	20.34	1.0	20	0	102	76-125	0			
Xylenes, Total	61.74	3.0	60	0	103	79-124	0			
Surr: 4-Bromofluorobenzene	30.82	1.0	30	0	103	77-129	0			
Surr: Trifluorotoluene	33.56	1.0	30	0	112	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91620** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1005676-08AMSD** Units: **µg/L** Analysis Date: **5/27/2010 12:14 PM**

Client ID: Run ID: **BTEX1_100526B** SeqNo: **1974204** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.7	1.0	20	0	98.5	77-126	23.26	16.6	20	
Toluene	19.14	1.0	20	0.5511	93	80-124	21.37	11	20	
Ethylbenzene	18.93	1.0	20	0	94.7	76-125	20.34	7.2	20	
Xylenes, Total	57.55	3.0	60	0	95.9	79-124	61.74	7.03	20	
Surr: 4-Bromofluorobenzene	30.34	1.0	30	0	101	77-129	30.82	1.56	20	
Surr: Trifluorotoluene	31.12	1.0	30	0	104	75-130	33.56	7.53	20	

The following samples were analyzed in this batch: 1005714-22A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005714
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91779 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-052610-R91779 Units: µg/Kg Analysis Date: 5/26/2010 01:33 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978009 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.75	1.0	30	0	95.8	75-131	0			
Surr: Trifluorotoluene	31.17	1.0	30	0	104	73-130	0			

LCS Sample ID: BLCSS1-052610-R91779 Units: µg/Kg Analysis Date: 5/26/2010 12:34 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978008 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.24	1.0	20	0	101	74-129	0			
Toluene	20.23	1.0	20	0	101	75-128	0			
Ethylbenzene	21.14	1.0	20	0	106	73-127	0			
Xylenes, Total	62.06	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	29.42	1.0	30	0	98.1	75-131	0			
Surr: Trifluorotoluene	30.75	1.0	30	0	103	73-130	0			

MS Sample ID: 1005833-12AMS Units: µg/Kg Analysis Date: 5/26/2010 05:59 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978030 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.15	1.0	20	0	101	74-129	0			
Toluene	20.19	1.0	20	0	101	75-128	0			
Ethylbenzene	21.19	1.0	20	0	106	73-127	0			
Xylenes, Total	62.26	3.0	60	0	104	74-127	0			
Surr: 4-Bromofluorobenzene	30.09	1.0	30	0	100	75-131	0			
Surr: Trifluorotoluene	30.86	1.0	30	0	103	73-130	0			

MSD Sample ID: 1005833-12AMSD Units: µg/Kg Analysis Date: 5/26/2010 06:19 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978032 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.46	1.0	20	0	102	74-129	20.15	1.49	30	
Toluene	20.46	1.0	20	0	102	75-128	20.19	1.34	30	
Ethylbenzene	21.38	1.0	20	0	107	73-127	21.19	0.909	30	
Xylenes, Total	62.81	3.0	60	0	105	74-127	62.26	0.879	30	
Surr: 4-Bromofluorobenzene	30.02	1.0	30	0	100	75-131	30.09	0.225	30	
Surr: Trifluorotoluene	31.02	1.0	30	0	103	73-130	30.86	0.52	30	

The following samples were analyzed in this batch:

1005714-19A 1005714-20A 1005714-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91911 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052610-R91911 Units: mg/Kg Analysis Date: 5/26/2010 05:10 PM

Client ID: Run ID: FID-9_100526A SeqNo: 1981050 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08616	0.0050	0.1	0	86.2	70-130	0			

LCS Sample ID: GLCSS-052610-R91911 Units: mg/Kg Analysis Date: 5/26/2010 04:46 PM

Client ID: Run ID: FID-9_100526A SeqNo: 1981049 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.189	0.050	1	0	119	70-130	0			
Surr: 4-Bromofluorobenzene	0.09004	0.0050	0.1	0	90	70-130	0			

MS Sample ID: 1005714-06BMS Units: mg/Kg Analysis Date: 5/26/2010 08:18 PM

Client ID: MW-19 50' Run ID: FID-9_100526A SeqNo: 1981058 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.126	0.050	1	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	0.08834	0.0050	0.1	0	88.3	70-130	0			

MSD Sample ID: 1005714-06BMSD Units: mg/Kg Analysis Date: 5/26/2010 08:42 PM

Client ID: MW-19 50' Run ID: FID-9_100526A SeqNo: 1981059 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.129	0.050	1	0	113	70-130	1.126	0.281	30	
Surr: 4-Bromofluorobenzene	0.08728	0.0050	0.1	0	87.3	70-130	0.08834	1.22	30	

The following samples were analyzed in this batch:

1005714-01B	1005714-02B	1005714-03B
1005714-04B	1005714-05B	1005714-06B
1005714-07B	1005714-08B	1005714-09B
1005714-10B	1005714-11B	1005714-12B
1005714-13B	1005714-14B	1005714-15B
1005714-16B	1005714-17B	1005714-18B
1005714-19B	1005714-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91913 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 05:25 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981090 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr:4-Bromofluorobenzene	0.07634	0.0050	0.1	0	76.3	70-130	0			

LCS Sample ID: GLCSS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 04:37 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981088 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.102	0.050	1	0	110	70-130	0			
Surr:4-Bromofluorobenzene	0.08168	0.0050	0.1	0	81.7	70-130	0			

MS Sample ID: 1005714-21BMS Units: mg/Kg Analysis Date: 5/27/2010 06:13 AM

Client ID: MW-20 95' Run ID: FID-9_100526B SeqNo: 1981092 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.143	0.050	1	0	114	70-130	0			
Surr:4-Bromofluorobenzene	0.08256	0.0050	0.1	0	82.6	70-130	0			

MSD Sample ID: 1005714-21BMSD Units: mg/Kg Analysis Date: 5/27/2010 06:37 AM

Client ID: MW-20 95' Run ID: FID-9_100526B SeqNo: 1981093 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.135	0.050	1	0	113	70-130	1.143	0.78	30	
Surr:4-Bromofluorobenzene	0.08305	0.0050	0.1	0	83	70-130	0.08256	0.593	30	

The following samples were analyzed in this batch:

1005714-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005714
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43322 Instrument ID ICS2100 Method: E300

MBLK		Sample ID: WBLKS1-052610-43322				Units: mg/Kg		Analysis Date: 5/27/2010 07:38 PM		
Client ID:		Run ID: ICS2100_100527B				SeqNo: 1976582		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	47.52	1.0	50	0	95	85-115	0			

LCS		Sample ID: WLCSS1-052610-43322				Units: mg/Kg		Analysis Date: 5/27/2010 07:52 PM		
Client ID:		Run ID: ICS2100_100527B				SeqNo: 1976583		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	191.3	5.0	200	0	95.6	90-110	0			
Surr: Selenate (surr)	48.82	1.0	50	0	97.6	85-115	0			

MS		Sample ID: 1005714-11BMS				Units: mg/Kg		Analysis Date: 5/27/2010 11:30 PM		
Client ID: MW-19 100'		Run ID: ICS2100_100527B				SeqNo: 1976597		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	290.4	4.7	94.7	205.6	89.5	75-125	0			
Surr: Selenate (surr)	45.24	0.95	47.35	0	95.5	80-120	0			

MS		Sample ID: 1005714-20BMS				Units: mg/Kg		Analysis Date: 5/28/2010 02:54 AM		
Client ID: MW-20 90'		Run ID: ICS2100_100527B				SeqNo: 1976610		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	90.04	4.6	92.76	1.827	95.1	75-125	0			
Surr: Selenate (surr)	44.7	0.93	46.38	0	96.4	80-120	0			

MSD		Sample ID: 1005714-11BMSD				Units: mg/Kg		Analysis Date: 5/27/2010 11:45 PM		
Client ID: MW-19 100'		Run ID: ICS2100_100527B				SeqNo: 1976598		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	295.3	4.7	94.7	205.6	94.7	75-125	290.4	1.69	20	
Surr: Selenate (surr)	46.45	0.95	47.35	0	98.1	80-120	45.24	2.64	20	

MSD		Sample ID: 1005714-20BMSD				Units: mg/Kg		Analysis Date: 5/28/2010 03:09 AM		
Client ID: MW-20 90'		Run ID: ICS2100_100527B				SeqNo: 1976611		Prep Date: 5/26/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	88.15	4.6	92.76	1.827	93.1	75-125	90.04	2.11	20	
Surr: Selenate (surr)	44.42	0.93	46.38	0	95.8	80-120	44.7	0.645	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005714
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43322

Instrument ID ICS2100

Method: E300

The following samples were analyzed in this batch:

1005714-01B	1005714-02B	1005714-03B
1005714-04B	1005714-05B	1005714-06B
1005714-07B	1005714-08B	1005714-09B
1005714-10B	1005714-11B	1005714-12B
1005714-13B	1005714-14B	1005714-15B
1005714-16B	1005714-17B	1005714-18B
1005714-19B	1005714-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005714
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43330 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:31 AM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978716 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2.96	5.0								J
Surr: Selenate (surr)	50.69	1.0	50	0	101	85-115	0			

LCS Sample ID: WLCSS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:53 AM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978717 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	200.2	5.0	200	0	100	90-110	0			
Surr: Selenate (surr)	49.62	1.0	50	0	99.2	85-115	0			

MS Sample ID: 1005898-01AMS Units: mg/Kg Analysis Date: 5/29/2010 01:18 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978720 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	125.3	4.6	92.94	33.07	99.3	75-125	0			
Surr: Selenate (surr)	47.76	0.93	46.47	0	103	80-120	0			

MS Sample ID: 1005814-16BMS Units: mg/Kg Analysis Date: 5/29/2010 08:48 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978766 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.9	4.7	94.52	9.641	98.6	75-125	0			
Surr: Selenate (surr)	48.77	0.94	47.26	0	103	80-120	0			

MSD Sample ID: 1005898-01AMSD Units: mg/Kg Analysis Date: 5/29/2010 01:39 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978721 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	125	4.6	92.94	33.07	98.9	75-125	125.3	0.282	20	
Surr: Selenate (surr)	47.66	0.93	46.47	0	103	80-120	47.76	0.214	20	

MSD Sample ID: 1005814-16BMSD Units: mg/Kg Analysis Date: 5/29/2010 09:10 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978767 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.9	4.7	94.52	9.641	98.6	75-125	102.9	0.00919	20	
Surr: Selenate (surr)	48.71	0.94	47.26	0	103	80-120	48.77	0.136	20	

The following samples were analyzed in this batch: 1005714-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

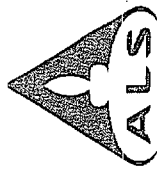
Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1005714

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



ALS Laboratory Group
10450 Stancil Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel. +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 3

Customer Information				Project Information				Parameter/Method Request for Analysis											
Project Name				Lea Refinery New Wells				A BTEX (0021)											
Project Number				NAV-10-003				B GRO (8015M)											
Bill To Company				Navajo Refining Company				C DRO (8015M)											
Invoice Attn				Darrell Moore				D ORO (8015M)											
Address				P.O. Box 159				E Chloride											
City/State/Zip				Artesia, NM 88211				F											
Phone				(505) 748-3311				G											
Fax				(505) 746-5421				H											
e-Mail Address				dgboyer@SESI-NM.com				I											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	Check Box	Required Turnaround Time	QC Package	Level II Std QC	Level III Std QC/Row Data	Level IV SW/646/CLP	Other	Results Due Date					
1	MW-18 90'	5/13/10	1005	Sail	8	2	X	8	10 Day TAT	☒	☐	☐	☐	5/13/10					
2	MW-19 10'	5/13/10	0840				X												
3	MW-19 20'	5/13/10	0850				X												
4	MW-19 30'	5/13/10	0905				X												
5	MW-19 40'	5/13/10	0920				X												
6	MW-19 50'	5/13/10	0930				X												
7	MW-19 60'	5/13/10	0940				X												
8	MW-19 70'	5/13/10	0950				X												
9	MW-19 80'	5/13/10	1005	Sail	8	2	X	8	10 Day TAT	☒	☐	☐	☐	5/13/10					
10	MW-19 90'	5/13/10	1015				X												

Relinquished by: D. Boyer Date: 5/20/10 Time: 1600

Relinquished by: D. Boyer Date: 5/20/10 Time: 1600

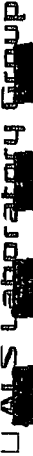
Logged by (Laboratory): D. Boyer Date: 5/20/10 Time: 1600

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO3 7-Other 8-4°C 9-5035

Notes: 10 Day TAT. Cc Dave Boyer

QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Check List

Level III Std QC/Row Data ☐ Level IV SW/646/CLP ☐ Other



3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

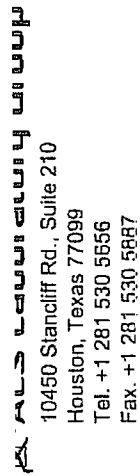
Parameter/Method Request for Analysis

Shipper's Reference Sample(s) Please Print & Sign Bob A. Bean	Shipment Method FedEx	Required Turnaround Time (Check Box) ☒ Std ☐ 1WK Days ☐ 2WK Days ☐ 3WK Days ☐ 4WK Days	Results Due Date: 01/01/2014
--	---------------------------------	--	---------------------------------

[illegible]

low	TRRP Checklist
	TRRP Level IV

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ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6165

Page 3 of 3

[illegible]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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W.O. # 1005714

This portion can be removed for Recipient's records.

Date 5/20/10 FedEx Tracking Number 869809950390

Sender's Name G. Boyer Phone 713 320-7000

Company SEER

Address 703 E. Clinton Dept./Room/Suite/Room

City Houston State NM ZIP 88240

Our Internal Billing Reference NHU-10-003



ALS Laboratory Group

10450 Stancliff Rd., Suite 210

Houston, Texas 77099

Tel. +1 281 530 5656

Fax. +1 281 530 5887

CUSTODY SEAL

Date: 5/20/10 Time: 1600

Name: G. Boyer

Company: SEER

Seal Broken By:

Date: 5/21/10

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **21-May-10 09:00**

Work Order: **1005714**

Received by: **RDH**

Checklist completed by Raymond N Gamba
eSignature

21-May-10
Date

Reviewed by:

eSignature

Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>2.7c</u>		<u>002</u>
Cooler(s)/Kit(s):	<u>3308</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:	<u></u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

09-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: **1005814**

Dear Darrell,

ALS Laboratory Group received 45 samples on 25-May-2010 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 75.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stanciliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005814

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005814-01	MW-21 10'	Soil		5/21/2010 07:55	5/25/2010 09:45	☐
1005814-02	MW-21 20'	Soil		5/21/2010 08:15	5/25/2010 09:45	☐
1005814-03	MW-21 30'	Soil		5/21/2010 08:25	5/25/2010 09:45	☐
1005814-04	MW-21 40'	Soil		5/21/2010 08:35	5/25/2010 09:45	☐
1005814-05	MW-21 50'	Soil		5/21/2010 08:45	5/25/2010 09:45	☐
1005814-06	MW-21 60'	Soil		5/21/2010 09:00	5/25/2010 09:45	☐
1005814-07	MW-21 70'	Soil		5/21/2010 09:10	5/25/2010 09:45	☐
1005814-08	MW-21 80'	Soil		5/21/2010 09:20	5/25/2010 09:45	☐
1005814-09	MW-21 90'	Soil		5/21/2010 09:30	5/25/2010 09:45	☐
1005814-10	MW-21 95'	Soil		5/21/2010 09:40	5/25/2010 09:45	☐
1005814-11	MW-28 10'	Soil		5/22/2010 08:35	5/25/2010 09:45	☐
1005814-12	MW-28 20'	Soil		5/22/2010 08:45	5/25/2010 09:45	☐
1005814-13	MW-28 30'	Soil		5/22/2010 08:55	5/25/2010 09:45	☐
1005814-14	MW-28 40'	Soil		5/22/2010 09:05	5/25/2010 09:45	☐
1005814-15	MW-28 50'	Soil		5/22/2010 09:15	5/25/2010 09:45	☐
1005814-16	MW-28 60'	Soil		5/22/2010 09:35	5/25/2010 09:45	☐
1005814-17	MW-28 70'	Soil		5/22/2010 09:50	5/25/2010 09:45	☐
1005814-18	MW-28 80'	Soil		5/22/2010 10:00	5/25/2010 09:45	☐
1005814-19	MW-28 90'	Soil		5/22/2010 10:10	5/25/2010 09:45	☐
1005814-20	MW-28 100'	Soil		5/22/2010 10:20	5/25/2010 09:45	☐
1005814-21	MW-28 105'	Soil		5/22/2010 10:25	5/25/2010 09:45	☐
1005814-22	MW-15 10'	Soil		5/22/2010 14:40	5/25/2010 09:45	☐
1005814-23	MW-15 20'	Soil		5/22/2010 14:50	5/25/2010 09:45	☐
1005814-24	MW-15 30'	Soil		5/22/2010 15:15	5/25/2010 09:45	☐
1005814-25	MW-15 40'	Soil		5/22/2010 15:25	5/25/2010 09:45	☐
1005814-26	MW-15 55'	Soil		5/22/2010 15:40	5/25/2010 09:45	☐
1005814-27	MW-15 60'	Soil		5/22/2010 16:00	5/25/2010 09:45	☐
1005814-28	MW-15 70'	Soil		5/22/2010 16:15	5/25/2010 09:45	☐
1005814-29	MW-15 80'	Soil		5/22/2010 16:25	5/25/2010 09:45	☐
1005814-30	MW-15 90'	Soil		5/22/2010 16:35	5/25/2010 09:45	☐
1005814-31	MW-15 100'	Soil		5/22/2010 16:45	5/25/2010 09:45	☐
1005814-32	MW-15 105'	Soil		5/23/2010 08:05	5/25/2010 09:45	☐
1005814-33	MW-17 10'	Soil		5/23/2010 13:05	5/25/2010 09:45	☐
1005814-34	MW-17 20'	Soil		5/23/2010 13:20	5/25/2010 09:45	☐
1005814-35	MW-17 30'	Soil		5/23/2010 13:35	5/25/2010 09:45	☐
1005814-36	MW-17 40'	Soil		5/23/2010 13:45	5/25/2010 09:45	☐
1005814-37	MW-17 50'	Soil		5/23/2010 13:55	5/25/2010 09:45	☐
1005814-38	MW-17 60'	Soil		5/23/2010 14:10	5/25/2010 09:45	☐
1005814-39	MW-17 70'	Soil		5/23/2010 14:20	5/25/2010 09:45	☐

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005814

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005814-40	MW-17 80'	Soil		5/23/2010 14:30	5/25/2010 09:45	☐
1005814-41	MW-17 90'	Soil		5/23/2010 14:40	5/25/2010 09:45	☐
1005814-42	MW-17 100'	Soil		5/23/2010 14:50	5/25/2010 09:45	☐
1005814-43	Trip Blank 042110-20	Water		5/23/2010	5/25/2010 09:45	☐
1005814-44	Trip Blank 051110-64	Water		5/23/2010	5/25/2010 09:45	☐
1005814-45	MW-17	Soil		5/23/2010 13:00	5/25/2010 09:45	☐

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005814

Case Narrative

TPH DRO/ORO (Samples 1005814-26,35,36,37,38) recovery high out of control limits for surrogate. Samples are non-detect.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-21 10'
Collection Date: 5/21/2010 07:55 AM

Work Order: 1005814
Lab ID: 1005814-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 09:58 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 09:58 PM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	1	5/29/2010 09:58 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 07:01 AM
Surr: 4-Bromofluorobenzene	80.8		70-130	%REC	1	5/27/2010 07:01 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 01:09 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 01:09 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 01:09 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 01:09 AM
Surr: 4-Bromofluorobenzene	85.9		75-131	%REC	1	5/27/2010 01:09 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 01:09 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	5.52		4.73	mg/Kg	1	5/29/2010 02:43 PM
Surr: Selenate (surr)	101		85-115	%REC	1	5/29/2010 02:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-21 20'
Collection Date: 5/21/2010 08:15 AM

Work Order: 1005814
Lab ID: 1005814-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 10:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 10:17 PM
Surr: 2-Fluorobiphenyl	88.6		70-130	%REC	1	5/29/2010 10:17 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 07:25 AM
Surr: 4-Bromofluorobenzene	78.7		70-130	%REC	1	5/27/2010 07:25 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 02:09 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 02:09 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 02:09 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 02:09 AM
Surr: 4-Bromofluorobenzene	89.2		75-131	%REC	1	5/27/2010 02:09 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 02:09 AM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	7.76		4.89	mg/Kg	1	5/29/2010 03:47 PM
Surr: Selenate (surr)	103		85-115	%REC	1	5/29/2010 03:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-21 30'
 Collection Date: 5/21/2010 08:25 AM

Work Order: 1005814
 Lab ID: 1005814-03
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 10:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 10:36 PM
Surr: 2-Fluorobiphenyl	86.6		70-130	%REC	1	5/29/2010 10:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 07:49 AM
Surr: 4-Bromofluorobenzene	80.1		70-130	%REC	1	5/27/2010 07:49 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 02:29 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 02:29 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 02:29 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 02:29 AM
Surr: 4-Bromofluorobenzene	90.2		75-131	%REC	1	5/27/2010 02:29 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/27/2010 02:29 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	5.80		4.95	mg/Kg	1	5/29/2010 04:09 PM
Surr: Selenate (surr)	100		85-115	%REC	1	5/29/2010 04:09 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 40'

Lab ID: 1005814-04

Collection Date: 5/21/2010 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 11:34 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 11:34 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	5/29/2010 11:34 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 08:13 AM
Surr: 4-Bromofluorobenzene	78.3		70-130	%REC	1	5/27/2010 08:13 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 02:49 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 02:49 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 02:49 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 02:49 AM
Surr: 4-Bromofluorobenzene	88.5		75-131	%REC	1	5/27/2010 02:49 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/27/2010 02:49 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.88	mg/Kg	1	5/29/2010 04:30 PM
Surr: Selenate (surr)	102		85-115	%REC	1	5/29/2010 04:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-21 50'
Collection Date: 5/21/2010 08:45 AM

Work Order: 1005814
Lab ID: 1005814-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/29/2010 11:54 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/29/2010 11:54 PM
Surr: 2-Fluorobiphenyl	96.6		70-130	%REC	1	5/29/2010 11:54 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 08:37 AM
Surr: 4-Bromofluorobenzene	78.9		70-130	%REC	1	5/27/2010 08:37 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 03:09 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 03:09 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 03:09 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 03:09 AM
Surr: 4-Bromofluorobenzene	90.1		75-131	%REC	1	5/27/2010 03:09 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 03:09 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.74	mg/Kg	1	5/29/2010 04:52 PM
Surr: Selenate (surr)	99.9		85-115	%REC	1	5/29/2010 04:52 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-21 60'
Collection Date: 5/21/2010 09:00 AM

Work Order: 1005814
Lab ID: 1005814-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 12:14 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 12:14 AM
Surr: 2-Fluorobiphenyl	92.0		70-130	%REC	1	5/30/2010 12:14 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 09:49 AM
Surr: 4-Bromofluorobenzene	78.4		70-130	%REC	1	5/27/2010 09:49 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 03:29 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 03:29 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 03:29 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 03:29 AM
Surr: 4-Bromofluorobenzene	88.3		75-131	%REC	1	5/27/2010 03:29 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 03:29 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.81	mg/Kg	1	5/29/2010 05:13 PM
Surr: Selenate (surr)	102		85-115	%REC	1	5/29/2010 05:13 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 70'

Lab ID: 1005814-07

Collection Date: 5/21/2010 09:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 12:33 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 12:33 AM
Surr: 2-Fluorobiphenyl	97.1		70-130	%REC	1	5/30/2010 12:33 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 10:12 AM
Surr: 4-Bromofluorobenzene	80.3		70-130	%REC	1	5/27/2010 10:12 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 04:29 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 04:29 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 04:29 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 04:29 AM
Surr: 4-Bromofluorobenzene	89.6		75-131	%REC	1	5/27/2010 04:29 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/27/2010 04:29 AM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.91	mg/Kg	1	5/29/2010 04:28 PM
Surr: Selenate (surr)	106		85-115	%REC	1	5/29/2010 04:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-21 80'
 Collection Date: 5/21/2010 09:20 AM

Work Order: 1005814
 Lab ID: 1005814-08
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 01:31 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 01:31 AM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	5/30/2010 01:31 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 10:36 AM
Surr: 4-Bromofluorobenzene	76.9		70-130	%REC	1	5/27/2010 10:36 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 04:49 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 04:49 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 04:49 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 04:49 AM
Surr: 4-Bromofluorobenzene	85.6		75-131	%REC	1	5/27/2010 04:49 AM
Surr: Trifluorotoluene	99.2		73-130	%REC	1	5/27/2010 04:49 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	ND		4.87	mg/Kg	1	5/29/2010 04:49 PM
Surr: Selenate (surr)	105		85-115	%REC	1	5/29/2010 04:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 90'

Lab ID: 1005814-09

Collection Date: 5/21/2010 09:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 01:50 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 01:50 AM
Surr: 2-Fluorobiphenyl	93.5		70-130	%REC	1	5/30/2010 01:50 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 11:00 AM
Surr: 4-Bromofluorobenzene	80.1		70-130	%REC	1	5/27/2010 11:00 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 05:08 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 05:08 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 05:08 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 05:08 AM
Surr: 4-Bromofluorobenzene	84.9		75-131	%REC	1	5/27/2010 05:08 AM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	5/27/2010 05:08 AM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	6.16		4.90	mg/Kg	1	5/29/2010 05:11 PM
Surr: Selenate (surr)	106		85-115	%REC	1	5/29/2010 05:11 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-21 95'
Collection Date: 5/21/2010 09:40 AM

Work Order: 1005814
Lab ID: 1005814-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:10 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:10 AM
Surr: 2-Fluorobiphenyl	99.8		70-130	%REC	1	5/30/2010 02:10 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 11:24 AM
Surr: 4-Bromofluorobenzene	79.0		70-130	%REC	1	5/27/2010 11:24 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 05:28 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 05:28 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 05:28 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 05:28 AM
Surr: 4-Bromofluorobenzene	84.4		75-131	%REC	1	5/27/2010 05:28 AM
Surr: Trifluorotoluene	97.9		73-130	%REC	1	5/27/2010 05:28 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	27.6		4.90	mg/Kg	1	5/29/2010 05:33 PM
Surr: Selenate (surr)	111		85-115	%REC	1	5/29/2010 05:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-28 10'
Collection Date: 5/22/2010 08:35 AM

Work Order: 1005814
Lab ID: 1005814-11
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:29 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:29 AM
Surr: 2-Fluorobiphenyl	94.9		70-130	%REC	1	5/30/2010 02:29 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 11:48 AM
Surr: 4-Bromofluorobenzene	77.4		70-130	%REC	1	5/27/2010 11:48 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 05:48 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 05:48 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 05:48 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 05:48 AM
Surr: 4-Bromofluorobenzene	84.7		75-131	%REC	1	5/27/2010 05:48 AM
Surr: Trifluorotoluene	97.9		73-130	%REC	1	5/27/2010 05:48 AM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	12.1		4.76	mg/Kg	1	5/29/2010 05:54 PM
Surr: Selenate (surr)	105		85-115	%REC	1	5/29/2010 05:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-28 20'
Collection Date: 5/22/2010 08:45 AM

Work Order: 1005814
Lab ID: 1005814-12
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 02:48 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 02:48 AM
Surr: 2-Fluorobiphenyl	99.7		70-130	%REC	1	5/30/2010 02:48 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 12:12 PM
Surr: 4-Bromofluorobenzene	79.8		70-130	%REC	1	5/27/2010 12:12 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 06:08 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 06:08 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 06:08 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 06:08 AM
Surr: 4-Bromofluorobenzene	87.7		75-131	%REC	1	5/27/2010 06:08 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 06:08 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	34.9		4.85	mg/Kg	1	5/29/2010 06:16 PM
Surr: Selenate (surr)	104		85-115	%REC	1	5/29/2010 06:16 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 30'

Lab ID: 1005814-13

Collection Date: 5/22/2010 08:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:08 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:08 AM
Surr: 2-Fluorobiphenyl	88.6		70-130	%REC	1	5/30/2010 03:08 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 12:36 PM
Surr: 4-Bromofluorobenzene	79.5		70-130	%REC	1	5/27/2010 12:36 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 06:28 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 06:28 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 06:28 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 06:28 AM
Surr: 4-Bromofluorobenzene	86.4		75-131	%REC	1	5/27/2010 06:28 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 06:28 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	32.1		4.66	mg/Kg	1	5/29/2010 06:38 PM
Surr: Selenate (surr)	106		85-115	%REC	1	5/29/2010 06:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-28 40'
Collection Date: 5/22/2010 09:05 AM

Work Order: 1005814
Lab ID: 1005814-14
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:27 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:27 AM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	1	5/30/2010 03:27 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 01:00 PM
Surr: 4-Bromofluorobenzene	78.8		70-130	%REC	1	5/27/2010 01:00 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 06:48 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 06:48 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 06:48 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 06:48 AM
Surr: 4-Bromofluorobenzene	85.7		75-131	%REC	1	5/27/2010 06:48 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 06:48 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	31.0		4.84	mg/Kg	1	5/29/2010 07:00 PM
Surr: Selenate (surr)	104		85-115	%REC	1	5/29/2010 07:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 50'

Lab ID: 1005814-15

Collection Date: 5/22/2010 09:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 03:46 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 03:46 AM
Surr: 2-Fluorobiphenyl	105		70-130	%REC	1	5/30/2010 03:46 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 01:24 PM
Surr: 4-Bromofluorobenzene	80.4		70-130	%REC	1	5/27/2010 01:24 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 07:08 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 07:08 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 07:08 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 07:08 AM
Surr: 4-Bromofluorobenzene	89.9		75-131	%REC	1	5/27/2010 07:08 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 07:08 AM
ANIONS			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	34.3		4.81	mg/Kg	1	5/29/2010 08:05 PM
Surr: Selenate (surr)	104		85-115	%REC	1	5/29/2010 08:05 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-28 60'
 Collection Date: 5/22/2010 09:35 AM

Work Order: 1005814
 Lab ID: 1005814-16
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 05:04 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 05:04 AM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	5/30/2010 05:04 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 08:06 PM
Surr: 4-Bromofluorobenzene	83.0		70-130	%REC	1	5/27/2010 08:06 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 07:28 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 07:28 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 07:28 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 07:28 AM
Surr: 4-Bromofluorobenzene	85.0		75-131	%REC	1	5/27/2010 07:28 AM
Surr: Trifluorotoluene	100		73-130	%REC	1	5/27/2010 07:28 AM
ANIONS						
			E300		Prep Date: 5/26/2010	Analyst: IGF
Chloride	9.64		4.73	mg/Kg	1	5/29/2010 08:26 PM
Surr: Selenate (surr)	103		85-115	%REC	1	5/29/2010 08:26 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 70'

Lab ID: 1005814-17

Collection Date: 5/22/2010 09:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 04:45 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 04:45 AM
Surr: 2-Fluorobiphenyl	97.0		70-130	%REC	1	5/30/2010 04:45 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 09:18 PM
Surr: 4-Bromofluorobenzene	80.9		70-130	%REC	1	5/27/2010 09:18 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 08:27 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 08:27 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 08:27 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 08:27 AM
Surr: 4-Bromofluorobenzene	85.7		75-131	%REC	1	5/27/2010 08:27 AM
Surr: Trifluorotoluene	99.0		73-130	%REC	1	5/27/2010 08:27 AM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.85	mg/Kg	1	6/1/2010 03:01 PM
Surr: Selenate (surr)	98.4		85-115	%REC	1	6/1/2010 03:01 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 80'

Lab ID: 1005814-18

Collection Date: 5/22/2010 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 04:25 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 04:25 AM
Surr: 2-Fluorobiphenyl	91.2		70-130	%REC	1	5/30/2010 04:25 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 09:42 PM
Surr: 4-Bromofluorobenzene	80.0		70-130	%REC	1	5/27/2010 09:42 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 08:47 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 08:47 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 08:47 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 08:47 AM
Surr: 4-Bromofluorobenzene	86.4		75-131	%REC	1	5/27/2010 08:47 AM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	5/27/2010 08:47 AM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	6.14		4.80	mg/Kg	1	6/1/2010 04:05 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/1/2010 04:05 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 90'

Lab ID: 1005814-19

Collection Date: 5/22/2010 10:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	5/30/2010 04:06 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	5/30/2010 04:06 AM
Surr: 2-Fluorobiphenyl	94.6		70-130	%REC	1	5/30/2010 04:06 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 10:06 PM
Surr: 4-Bromofluorobenzene	80.8		70-130	%REC	1	5/27/2010 10:06 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 09:07 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 09:07 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 09:07 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 09:07 AM
Surr: 4-Bromofluorobenzene	84.1		75-131	%REC	1	5/27/2010 09:07 AM
Surr: Trifluorotoluene	99.0		73-130	%REC	1	5/27/2010 09:07 AM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.65	mg/Kg	1	6/1/2010 04:27 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/1/2010 04:27 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 100'

Lab ID: 1005814-20

Collection Date: 5/22/2010 10:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 08:43 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 08:43 PM
Surr: 2-Fluorobiphenyl	124		70-130	%REC	1	6/1/2010 08:43 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 10:30 PM
Surr: 4-Bromofluorobenzene	79.2		70-130	%REC	1	5/27/2010 10:30 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 09:27 AM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 09:27 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 09:27 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 09:27 AM
Surr: 4-Bromofluorobenzene	85.7		75-131	%REC	1	5/27/2010 09:27 AM
Surr: Trifluorotoluene	97.1		73-130	%REC	1	5/27/2010 09:27 AM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	8.99		4.70	mg/Kg	1	6/1/2010 04:51 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/1/2010 04:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 105'

Lab ID: 1005814-21

Collection Date: 5/22/2010 10:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 09:03 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 09:03 PM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	1	6/1/2010 09:03 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 10:54 PM
Surr: 4-Bromofluorobenzene	78.9		70-130	%REC	1	5/27/2010 10:54 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 11:10 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 11:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 11:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 11:10 PM
Surr: 4-Bromofluorobenzene	87.7		75-131	%REC	1	5/26/2010 11:10 PM
Surr: Trifluorotoluene	99.9		73-130	%REC	1	5/26/2010 11:10 PM
ANIONS			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	9.98		4.86	mg/Kg	1	6/1/2010 05:12 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/1/2010 05:12 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 10'

Lab ID: 1005814-22

Collection Date: 5/22/2010 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 09:22 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 09:22 PM
Surr: 2-Fluorobiphenyl	129		70-130	%REC	1	6/1/2010 09:22 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/27/2010 11:42 PM
Surr: 4-Bromofluorobenzene	82.7		70-130	%REC	1	5/27/2010 11:42 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 11:30 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 11:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 11:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 11:30 PM
Surr: 4-Bromofluorobenzene	93.0		75-131	%REC	1	5/26/2010 11:30 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/26/2010 11:30 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.82	mg/Kg	1	6/1/2010 05:34 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/1/2010 05:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 20'

Lab ID: 1005814-23

Collection Date: 5/22/2010 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 09:41 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 09:41 PM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	1	6/1/2010 09:41 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 12:06 AM
Surr: 4-Bromofluorobenzene	76.1		70-130	%REC	1	5/28/2010 12:06 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/26/2010 11:50 PM
Toluene	ND		0.0010	mg/Kg	1	5/26/2010 11:50 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/26/2010 11:50 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/26/2010 11:50 PM
Surr: 4-Bromofluorobenzene	87.2		75-131	%REC	1	5/26/2010 11:50 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	5/26/2010 11:50 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.84	mg/Kg	1	6/1/2010 06:38 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 06:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 30'

Lab ID: 1005814-24

Collection Date: 5/22/2010 03:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 10:01 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 10:01 PM
Surr: 2-Fluorobiphenyl	118		70-130	%REC	1	6/1/2010 10:01 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 12:30 AM
Surr: 4-Bromofluorobenzene	79.6		70-130	%REC	1	5/28/2010 12:30 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 03:07 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 03:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 03:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 03:07 PM
Surr: 4-Bromofluorobenzene	88.7		75-131	%REC	1	5/27/2010 03:07 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 03:07 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.78	mg/Kg	1	6/1/2010 06:59 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 06:59 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 40'

Lab ID: 1005814-25

Collection Date: 5/22/2010 03:25 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 10:20 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 10:20 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	6/1/2010 10:20 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 12:54 AM
Surr: 4-Bromofluorobenzene	80.4		70-130	%REC	1	5/28/2010 12:54 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 03:27 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 03:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 03:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 03:27 PM
Surr: 4-Bromofluorobenzene	89.8		75-131	%REC	1	5/27/2010 03:27 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 03:27 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.96	mg/Kg	1	6/1/2010 07:20 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/1/2010 07:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 55'

Lab ID: 1005814-26

Collection Date: 5/22/2010 03:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 10:40 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 10:40 PM
Surr: 2-Fluorobiphenyl	139	S	70-130	%REC	1	6/1/2010 10:40 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 01:18 AM
Surr: 4-Bromofluorobenzene	80.5		70-130	%REC	1	5/28/2010 01:18 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 03:47 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 03:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 03:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 03:47 PM
Surr: 4-Bromofluorobenzene	88.8		75-131	%REC	1	5/27/2010 03:47 PM
Surr: Trifluorotoluene	99.3		73-130	%REC	1	5/27/2010 03:47 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	6.37		4.79	mg/Kg	1	6/1/2010 07:42 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/1/2010 07:42 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 60'

Lab ID: 1005814-27

Collection Date: 5/22/2010 04:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 10:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 10:59 PM
Surr: 2-Fluorobiphenyl	124		70-130	%REC	1	6/1/2010 10:59 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 01:42 AM
Surr: 4-Bromofluorobenzene	76.6		70-130	%REC	1	5/28/2010 01:42 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 04:07 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 04:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 04:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 04:07 PM
Surr: 4-Bromofluorobenzene	86.2		75-131	%REC	1	5/27/2010 04:07 PM
Surr: Trifluorotoluene	98.5		73-130	%REC	1	5/27/2010 04:07 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	6.39		4.99	mg/Kg	1	6/1/2010 08:03 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 08:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-15 70'

Collection Date: 5/22/2010 04:15 PM

Work Order: 1005814

Lab ID: 1005814-28

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 11:19 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 11:19 PM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/1/2010 11:19 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 02:06 AM
Surr: 4-Bromofluorobenzene	79.4		70-130	%REC	1	5/28/2010 02:06 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 04:27 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 04:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 04:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 04:27 PM
Surr: 4-Bromofluorobenzene	85.0		75-131	%REC	1	5/27/2010 04:27 PM
Surr: Trifluorotoluene	98.7		73-130	%REC	1	5/27/2010 04:27 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	6.36		4.96	mg/Kg	1	6/1/2010 08:24 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 08:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 80'

Lab ID: 1005814-29

Collection Date: 5/22/2010 04:25 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 11:38 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 11:38 PM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/1/2010 11:38 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 02:30 AM
Surr: 4-Bromofluorobenzene	78.9		70-130	%REC	1	5/28/2010 02:30 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 04:47 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 04:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 04:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 04:47 PM
Surr: 4-Bromofluorobenzene	85.4		75-131	%REC	1	5/27/2010 04:47 PM
Surr: Trifluorotoluene	99.3		73-130	%REC	1	5/27/2010 04:47 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	7.08		4.97	mg/Kg	1	6/1/2010 08:46 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/1/2010 08:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 90'

Lab ID: 1005814-30

Collection Date: 5/22/2010 04:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 12:36 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 12:36 AM
Surr: 2-Fluorobiphenyl	122		70-130	%REC	1	6/2/2010 12:36 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 02:53 AM
Surr: 4-Bromofluorobenzene	78.7		70-130	%REC	1	5/28/2010 02:53 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 05:07 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 05:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 05:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 05:07 PM
Surr: 4-Bromofluorobenzene	84.9		75-131	%REC	1	5/27/2010 05:07 PM
Surr: Trifluorotoluene	98.5		73-130	%REC	1	5/27/2010 05:07 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	ND		4.87	mg/Kg	1	6/1/2010 09:07 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/1/2010 09:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 100'

Lab ID: 1005814-31

Collection Date: 5/22/2010 04:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 12:55 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 12:55 AM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	1	6/2/2010 12:55 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 03:17 AM
Surr: 4-Bromofluorobenzene	74.7		70-130	%REC	1	5/28/2010 03:17 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 05:27 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 05:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 05:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 05:27 PM
Surr: 4-Bromofluorobenzene	84.8		75-131	%REC	1	5/27/2010 05:27 PM
Surr: Trifluorotoluene	99.7		73-130	%REC	1	5/27/2010 05:27 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	5.99		4.70	mg/Kg	1	6/1/2010 10:11 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/1/2010 10:11 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 105'

Lab ID: 1005814-32

Collection Date: 5/23/2010 08:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 01:15 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 01:15 AM
Surr: 2-Fluorobiphenyl	117		70-130	%REC	1	6/2/2010 01:15 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 04:05 AM
Surr: 4-Bromofluorobenzene	79.6		70-130	%REC	1	5/28/2010 04:05 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 08:53 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 08:53 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 08:53 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 08:53 PM
Surr: 4-Bromofluorobenzene	91.2		75-131	%REC	1	5/27/2010 08:53 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	5/27/2010 08:53 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	10.6		4.91	mg/Kg	1	6/1/2010 10:33 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/1/2010 10:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 10'

Lab ID: 1005814-33

Collection Date: 5/23/2010 01:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 01:34 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 01:34 AM
Surr: 2-Fluorobiphenyl	114		70-130	%REC	1	6/2/2010 01:34 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 04:29 AM
Surr: 4-Bromofluorobenzene	78.4		70-130	%REC	1	5/28/2010 04:29 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 09:13 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 09:13 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 09:13 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 09:13 PM
Surr: 4-Bromofluorobenzene	86.5		75-131	%REC	1	5/27/2010 09:13 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	5/27/2010 09:13 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	15.4		4.79	mg/Kg	1	6/1/2010 10:54 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 10:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 20'

Lab ID: 1005814-34

Collection Date: 5/23/2010 01:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 02:32 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 02:32 AM
Surr: 2-Fluorobiphenyl	130		70-130	%REC	1	6/2/2010 02:32 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 04:53 AM
Surr: 4-Bromofluorobenzene	78.7		70-130	%REC	1	5/28/2010 04:53 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 09:33 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 09:33 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 09:33 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 09:33 PM
Surr: 4-Bromofluorobenzene	88.2		75-131	%REC	1	5/27/2010 09:33 PM
Surr: Trifluorotoluene	99.5		73-130	%REC	1	5/27/2010 09:33 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	17.2		4.97	mg/Kg	1	6/1/2010 11:15 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/1/2010 11:15 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 30'

Lab ID: 1005814-35

Collection Date: 5/23/2010 01:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 02:51 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 02:51 AM
Surr: 2-Fluorobiphenyl	136	S	70-130	%REC	1	6/2/2010 02:51 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 05:17 AM
Surr: 4-Bromofluorobenzene	78.5		70-130	%REC	1	5/28/2010 05:17 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 09:53 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 09:53 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 09:53 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 09:53 PM
Surr: 4-Bromofluorobenzene	90.9		75-131	%REC	1	5/27/2010 09:53 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/27/2010 09:53 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	150		4.84	mg/Kg	1	6/1/2010 11:37 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/1/2010 11:37 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 40'

Lab ID: 1005814-36

Collection Date: 5/23/2010 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 03:11 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 03:11 AM
Surr: 2-Fluorobiphenyl	155	S	70-130	%REC	1	6/2/2010 03:11 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 06:53 AM
Surr: 4-Bromofluorobenzene	77.4		70-130	%REC	1	5/28/2010 06:53 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 10:13 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 10:13 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 10:13 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 10:13 PM
Surr: 4-Bromofluorobenzene	91.4		75-131	%REC	1	5/27/2010 10:13 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/27/2010 10:13 PM
ANIONS						
			E300		Prep Date: 5/28/2010	Analyst: IGF
Chloride	120		4.81	mg/Kg	1	6/1/2010 11:58 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/1/2010 11:58 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 50'

Lab ID: 1005814-37

Collection Date: 5/23/2010 01:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 03:30 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 03:30 AM
Surr: 2-Fluorobiphenyl	144	S	70-130	%REC	1	6/2/2010 03:30 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 07:16 AM
Surr: 4-Bromofluorobenzene	79.9		70-130	%REC	1	5/28/2010 07:16 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 10:33 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 10:33 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 10:33 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 10:33 PM
Surr: 4-Bromofluorobenzene	92.8		75-131	%REC	1	5/27/2010 10:33 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	5/27/2010 10:33 PM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	79.0		4.69	mg/Kg	1	6/3/2010 06:42 AM
Surr: Selenate (surr)	96.2		85-115	%REC	1	6/3/2010 06:42 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 60'

Lab ID: 1005814-38

Collection Date: 5/23/2010 02:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 03:49 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 03:49 AM
Surr: 2-Fluorobiphenyl	133	S	70-130	%REC	1	6/2/2010 03:49 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 07:40 AM
Surr: 4-Bromofluorobenzene	81.0		70-130	%REC	1	5/28/2010 07:40 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 11:33 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 11:33 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 11:33 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 11:33 PM
Surr: 4-Bromofluorobenzene	89.4		75-131	%REC	1	5/27/2010 11:33 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	5/27/2010 11:33 PM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	40.3		4.76	mg/Kg	1	6/3/2010 07:25 AM
Surr: Selenate (surr)	97.9		85-115	%REC	1	6/3/2010 07:25 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 70'

Lab ID: 1005814-39

Collection Date: 5/23/2010 02:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 03:30 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 03:30 AM
Surr: 2-Fluorobiphenyl	119		70-130	%REC	1	6/2/2010 03:30 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 08:04 AM
Surr: 4-Bromofluorobenzene	79.6		70-130	%REC	1	5/28/2010 08:04 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/27/2010 11:53 PM
Toluene	ND		0.0010	mg/Kg	1	5/27/2010 11:53 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/27/2010 11:53 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/27/2010 11:53 PM
Surr: 4-Bromofluorobenzene	91.2		75-131	%REC	1	5/27/2010 11:53 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	5/27/2010 11:53 PM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	10.6		4.95	mg/Kg	1	6/3/2010 07:40 AM
Surr: Selenate (surr)	98.0		85-115	%REC	1	6/3/2010 07:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 80'

Lab ID: 1005814-40

Collection Date: 5/23/2010 02:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 08:43 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 08:43 PM
Surr: 2-Fluorobiphenyl	128		70-130	%REC	1	6/1/2010 08:43 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 08:28 AM
Surr: 4-Bromofluorobenzene	80.8		70-130	%REC	1	5/28/2010 08:28 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/28/2010 12:13 AM
Toluene	ND		0.0010	mg/Kg	1	5/28/2010 12:13 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/28/2010 12:13 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/28/2010 12:13 AM
Surr: 4-Bromofluorobenzene	87.9		75-131	%REC	1	5/28/2010 12:13 AM
Surr: Trifluorotoluene	99.4		73-130	%REC	1	5/28/2010 12:13 AM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	7.24		4.78	mg/Kg	1	6/3/2010 07:54 AM
Surr: Selenate (surr)	99.1		85-115	%REC	1	6/3/2010 07:54 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 90'

Lab ID: 1005814-41

Collection Date: 5/23/2010 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 09:03 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 09:03 PM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	6/1/2010 09:03 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 10:04 AM
Surr: 4-Bromofluorobenzene	78.9		70-130	%REC	1	5/28/2010 10:04 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/28/2010 12:33 AM
Toluene	ND		0.0010	mg/Kg	1	5/28/2010 12:33 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/28/2010 12:33 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/28/2010 12:33 AM
Surr: 4-Bromofluorobenzene	83.7		75-131	%REC	1	5/28/2010 12:33 AM
Surr: Trifluorotoluene	97.9		73-130	%REC	1	5/28/2010 12:33 AM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	ND		4.86	mg/Kg	1	6/3/2010 08:09 AM
Surr: Selenate (surr)	98.9		85-115	%REC	1	6/3/2010 08:09 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 100'

Lab ID: 1005814-42

Collection Date: 5/23/2010 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/1/2010 09:22 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/1/2010 09:22 PM
Surr: 2-Fluorobiphenyl	114		70-130	%REC	1	6/1/2010 09:22 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 10:28 AM
Surr: 4-Bromofluorobenzene	80.3		70-130	%REC	1	5/28/2010 10:28 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/28/2010 02:13 AM
Toluene	ND		0.0010	mg/Kg	1	5/28/2010 02:13 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/28/2010 02:13 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/28/2010 02:13 AM
Surr: 4-Bromofluorobenzene	83.2		75-131	%REC	1	5/28/2010 02:13 AM
Surr: Trifluorotoluene	97.0		73-130	%REC	1	5/28/2010 02:13 AM
ANIONS						
			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	47.9		4.99	mg/Kg	1	6/3/2010 08:24 AM
Surr: Selenate (surr)	95.8		85-115	%REC	1	6/3/2010 08:24 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: Trip Blank 042110-20

Lab ID: 1005814-43

Collection Date: 5/23/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/28/2010 02:09 AM
Toluene	ND		0.0010	mg/L	1	5/28/2010 02:09 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/28/2010 02:09 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/28/2010 02:09 AM
Surr: 4-Bromofluorobenzene	98.6		77-129	%REC	1	5/28/2010 02:09 AM
Surr: Trifluorotoluene	101		75-130	%REC	1	5/28/2010 02:09 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: Trip Blank 051110-64

Lab ID: 1005814-44

Collection Date: 5/23/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/28/2010 02:26 AM
Toluene	ND		0.0010	mg/L	1	5/28/2010 02:26 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/28/2010 02:26 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/28/2010 02:26 AM
Surr: 4-Bromofluorobenzene	99.1		77-129	%REC	1	5/28/2010 02:26 AM
Surr: Trifluorotoluene	105		75-130	%REC	1	5/28/2010 02:26 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17

Lab ID: 1005814-45

Collection Date: 5/23/2010 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 5/28/2010	Analyst: KMB
TPH (Diesel Range)	8.5		1.7	mg/Kg	1	6/1/2010 09:41 PM
TPH (Motor Oil Range)	63		3.4	mg/Kg	1	6/1/2010 09:41 PM
Surr: 2-Fluorobiphenyl	119		70-130	%REC	1	6/1/2010 09:41 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	5/28/2010 10:52 AM
Surr: 4-Bromofluorobenzene	77.6		70-130	%REC	1	5/28/2010 10:52 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	5/28/2010 05:52 AM
Toluene	0.0031		0.0010	mg/Kg	1	5/28/2010 05:52 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	5/28/2010 05:52 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	5/28/2010 05:52 AM
Surr: 4-Bromofluorobenzene	88.0		75-131	%REC	1	5/28/2010 05:52 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	5/28/2010 05:52 AM
ANIONS			E300		Prep Date: 6/1/2010	Analyst: IGF
Chloride	4.90		4.80	mg/Kg	1	6/3/2010 09:22 AM
Surr: Selenate (surr)	96.0		85-115	%REC	1	6/3/2010 09:22 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43311** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 08:59 PM**

Client ID: Run ID: **FID-7_100528A** SeqNo: **1984874** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.084	0.10	3.33	0	92.6	70-130	0			

LCS Sample ID: **FLCSS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 09:19 PM**

Client ID: Run ID: **FID-7_100528A** SeqNo: **1984875** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.69	1.7	33.33	0	80.1	70-130	0			
TPH (Motor Oil Range)	35.47	3.4	33.33	0	106	70-130	0			
Surr: 2-Fluorobiphenyl	3.881	0.10	3.33	0	117	70-130	0			

MS Sample ID: **1005814-03BMS** Units: **mg/Kg** Analysis Date: **5/29/2010 10:56 PM**

Client ID: **MW-21 30'** Run ID: **FID-7_100528A** SeqNo: **1984878** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	28.46	1.7	33.26	0	85.6	70-130	0			
TPH (Motor Oil Range)	41.16	3.4	33.26	0.3047	123	70-130	0			
Surr: 2-Fluorobiphenyl	3.718	0.10	3.323	0	112	70-130	0			

MSD Sample ID: **1005814-03BMSD** Units: **mg/Kg** Analysis Date: **5/29/2010 11:15 PM**

Client ID: **MW-21 30'** Run ID: **FID-7_100528A** SeqNo: **1984879** Prep Date: **5/28/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.12	1.7	33.23	0	87.6	70-130	28.46	2.27	30	
TPH (Motor Oil Range)	41.63	3.4	33.23	0.3047	124	70-130	41.16	1.12	30	
Surr: 2-Fluorobiphenyl	3.499	0.10	3.32	0	105	70-130	3.718	6.06	30	

The following samples were analyzed in this batch:

1005814-01B	1005814-02B	1005814-03B
1005814-04B	1005814-05B	1005814-06B
1005814-07B	1005814-08B	1005814-09B
1005814-10B	1005814-11B	1005814-12B
1005814-13B	1005814-14B	1005814-15B
1005814-16B	1005814-17B	1005814-18B
1005814-19B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43312 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS2-100528-43312 Units: mg/Kg Analysis Date: 6/1/2010 08:05 PM

Client ID: Run ID: FID-8_100528B SeqNo: 1987850 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	4.26	0.10	3.33	0	128	70-130	0			

LCS Sample ID: FLCSS2-100528-43312 Units: mg/Kg Analysis Date: 6/1/2010 08:24 PM

Client ID: Run ID: FID-8_100528B SeqNo: 1987851 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	36.59	1.7	33.33	0	110	70-130	0			
TPH (Motor Oil Range)	35.31	3.4	33.33	0	106	70-130	0			
Surr: 2-Fluorobiphenyl	4.047	0.10	3.33	0	122	70-130	0			

MS Sample ID: 1005814-33BMS Units: mg/Kg Analysis Date: 6/2/2010 01:53 AM

Client ID: MW-17 10' Run ID: FID-8_100528B SeqNo: 1987873 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.94	1.7	33.29	0.1989	116	70-130	0			
TPH (Motor Oil Range)	39.06	3.4	33.29	0.4936	116	70-130	0			
Surr: 2-Fluorobiphenyl	4.19	0.10	3.326	0	126	70-130	0			

MSD Sample ID: 1005814-33BMSD Units: mg/Kg Analysis Date: 6/2/2010 02:13 AM

Client ID: MW-17 10' Run ID: FID-8_100528B SeqNo: 1987874 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.92	1.7	33.24	0.1989	107	70-130	38.94	8.06	30	
TPH (Motor Oil Range)	34.78	3.4	33.24	0.4936	103	70-130	39.06	11.6	30	
Surr: 2-Fluorobiphenyl	3.92	0.10	3.321	0	118	70-130	4.19	6.68	30	

The following samples were analyzed in this batch:

1005814-20B	1005814-21B	1005814-22B
1005814-23B	1005814-24B	1005814-25B
1005814-26B	1005814-27B	1005814-28B
1005814-29B	1005814-30B	1005814-31B
1005814-32B	1005814-33B	1005814-34B
1005814-35B	1005814-36B	1005814-37B
1005814-38B	1005814-39B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43321 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100528-43321 Units: mg/Kg Analysis Date: 6/1/2010 08:05 PM
 Client ID: Run ID: FID-7_100528B SeqNo: 1988110 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	4.323	0.10	3.33	0	130	70-130	0			

LCS Sample ID: FLLCSS3-100528-43321 Units: mg/Kg Analysis Date: 6/1/2010 08:24 PM
 Client ID: Run ID: FID-7_100528B SeqNo: 1988136 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.96	1.7	33.33	0	105	70-130	0			
TPH (Motor Oil Range)	42.66	3.4	33.33	0	128	70-130	0			
Surr: 2-Fluorobiphenyl	4.159	0.10	3.33	0	125	70-130	0			

MS Sample ID: 1005831-16CMS Units: mg/Kg Analysis Date: 6/2/2010 02:51 AM
 Client ID: Run ID: FID-7_100528B SeqNo: 1988129 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.45	1.7	33.3	0.08988	97.2	70-130	0			
TPH (Motor Oil Range)	37.89	3.4	33.3	1.96	108	70-130	0			
Surr: 2-Fluorobiphenyl	4.252	0.10	3.327	0	128	70-130	0			

MSD Sample ID: 1005831-16CMSD Units: mg/Kg Analysis Date: 6/2/2010 03:11 AM
 Client ID: Run ID: FID-7_100528B SeqNo: 1988130 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.79	1.7	33.26	0.08988	107	70-130	32.45	9.79	30	
TPH (Motor Oil Range)	43.24	3.4	33.26	1.96	124	70-130	37.89	13.2	30	
Surr: 2-Fluorobiphenyl	4.261	0.10	3.323	0	128	70-130	4.252	0.206	30	

The following samples were analyzed in this batch:

1005814-40B	1005814-41B	1005814-42B
1005814-45B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91753 Instrument ID BTEX1 Method: SW8021B

MBLK		Sample ID: MEOHW1-052710-R91753				Units: µg/L		Analysis Date: 5/27/2010 05:53 PM		
Client ID:		Run ID: BTEX1_100527A				SeqNo: 1977482		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	0.3324	1.0								J
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.17	1.0	30	0	101	77-129	0			
Surr: Trifluorotoluene	30.24	1.0	30	0	101	75-130	0			

MBLK		Sample ID: BBLKW1-052710-R91753				Units: µg/L		Analysis Date: 5/27/2010 06:10 PM		
Client ID:		Run ID: BTEX1_100527A				SeqNo: 1977483		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.12	1.0	30	0	100	77-129	0			
Surr: Trifluorotoluene	30.91	1.0	30	0	103	75-130	0			

LCS		Sample ID: BLCSW1-052710-R91753				Units: µg/L		Analysis Date: 5/27/2010 05:11 PM		
Client ID:		Run ID: BTEX1_100527A				SeqNo: 1977481		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.99	1.0	20	0	95	77-126	0			
Toluene	19.03	1.0	20	0	95.1	80-124	0			
Ethylbenzene	17.23	1.0	20	0	86.2	76-125	0			
Xylenes, Total	52.12	3.0	60	0	86.9	79-124	0			
Surr: 4-Bromofluorobenzene	29.83	1.0	30	0	99.4	77-129	0			
Surr: Trifluorotoluene	31.55	1.0	30	0	105	75-130	0			

MS		Sample ID: 1005645-10AMS				Units: µg/L		Analysis Date: 5/27/2010 10:43 PM		
Client ID:		Run ID: BTEX1_100527A				SeqNo: 1977494		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.42	1.0	20	0.2724	121	77-126	0			
Toluene	22.75	1.0	20	0.2863	112	80-124	0			
Ethylbenzene	22.09	1.0	20	0	110	76-125	0			
Xylenes, Total	65.95	3.0	60	0.497	109	79-124	0			
Surr: 4-Bromofluorobenzene	30.77	1.0	30	0	103	77-129	0			
Surr: Trifluorotoluene	32.48	1.0	30	0	108	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91753** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1005645-10AMSD** Units: **µg/L** Analysis Date: **5/27/2010 11:00 PM**

Client ID: Run ID: **BTEX1_100527A** SeqNo: **1977495** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.4	1.0	20	0.2724	121	77-126	24.42	0.0727	20	
Toluene	22.77	1.0	20	0.2863	112	80-124	22.75	0.0944	20	
Ethylbenzene	22.21	1.0	20	0	111	76-125	22.09	0.535	20	
Xylenes, Total	66.11	3.0	60	0.497	109	79-124	65.95	0.238	20	
Surr: 4-Bromofluorobenzene	30.99	1.0	30	0	103	77-129	30.77	0.698	20	
Surr: Trifluorotoluene	32.83	1.0	30	0	109	75-130	32.48	1.06	20	

The following samples were analyzed in this batch:

1005814-43A 1005814-44A

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91779 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-052610-R91779 Units: µg/Kg Analysis Date: 5/26/2010 01:33 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978009 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.75	1.0	30	0	95.8	75-131	0			
Surr: Trifluorotoluene	31.17	1.0	30	0	104	73-130	0			

LCS Sample ID: BLCSS1-052610-R91779 Units: µg/Kg Analysis Date: 5/26/2010 12:34 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978008 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.24	1.0	20	0	101	74-129	0			
Toluene	20.23	1.0	20	0	101	75-128	0			
Ethylbenzene	21.14	1.0	20	0	106	73-127	0			
Xylenes, Total	62.06	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	29.42	1.0	30	0	98.1	75-131	0			
Surr: Trifluorotoluene	30.75	1.0	30	0	103	73-130	0			

MS Sample ID: 1005833-12AMS Units: µg/Kg Analysis Date: 5/26/2010 05:59 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978030 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.15	1.0	20	0	101	74-129	0			
Toluene	20.19	1.0	20	0	101	75-128	0			
Ethylbenzene	21.19	1.0	20	0	106	73-127	0			
Xylenes, Total	62.26	3.0	60	0	104	74-127	0			
Surr: 4-Bromofluorobenzene	30.09	1.0	30	0	100	75-131	0			
Surr: Trifluorotoluene	30.86	1.0	30	0	103	73-130	0			

MSD Sample ID: 1005833-12AMSD Units: µg/Kg Analysis Date: 5/26/2010 06:19 PM

Client ID: Run ID: BTEX3_100526A SeqNo: 1978032 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.46	1.0	20	0	102	74-129	20.15	1.49	30	
Toluene	20.46	1.0	20	0	102	75-128	20.19	1.34	30	
Ethylbenzene	21.38	1.0	20	0	107	73-127	21.19	0.909	30	
Xylenes, Total	62.81	3.0	60	0	105	74-127	62.26	0.879	30	
Surr: 4-Bromofluorobenzene	30.02	1.0	30	0	100	75-131	30.09	0.225	30	
Surr: Trifluorotoluene	31.02	1.0	30	0	103	73-130	30.86	0.52	30	

The following samples were analyzed in this batch:

1005814-21A 1005814-22A 1005814-23A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91786 Instrument ID BTEX3 Method: SW8021B

MBLK		Sample ID: BBLKS1-052610-R91786				Units: µg/Kg		Analysis Date: 5/27/2010 12:50 AM		
Client ID:		Run ID: BTEX3_100526B				SeqNo: 1978119		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	25.81	1.0	30	0	86	75-131	0			
Surr: Trifluorotoluene	29.81	1.0	30	0	99.4	73-130	0			

LCS		Sample ID: BLCSS1-052710-R91786				Units: µg/Kg		Analysis Date: 5/27/2010 12:30 AM		
Client ID:		Run ID: BTEX3_100526B				SeqNo: 1978118		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.21	1.0	20	0	101	74-129	0			
Toluene	20.19	1.0	20	0	101	75-128	0			
Ethylbenzene	21.1	1.0	20	0	105	73-127	0			
Xylenes, Total	62.08	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	26.68	1.0	30	0	88.9	75-131	0			
Surr: Trifluorotoluene	30.48	1.0	30	0	102	73-130	0			

MS		Sample ID: 1005814-01AMS				Units: µg/Kg		Analysis Date: 5/27/2010 01:29 AM		
Client ID: MW-21 10'		Run ID: BTEX3_100526B				SeqNo: 1978121		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.67	1.0	20	0	98.4	74-129	0			
Toluene	19.87	1.0	20	0	99.3	75-128	0			
Ethylbenzene	20.38	1.0	20	0	102	73-127	0			
Xylenes, Total	60.58	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	26.47	1.0	30	0	88.2	75-131	0			
Surr: Trifluorotoluene	30.65	1.0	30	0	102	73-130	0			

MSD		Sample ID: 1005814-01AMSD				Units: µg/Kg		Analysis Date: 5/27/2010 01:49 AM		
Client ID: MW-21 10'		Run ID: BTEX3_100526B				SeqNo: 1978122		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.09	1.0	20	0	100	74-129	19.67	2.12	30	
Toluene	20.04	1.0	20	0	100	75-128	19.87	0.889	30	
Ethylbenzene	20.62	1.0	20	0	103	73-127	20.38	1.17	30	
Xylenes, Total	61.28	3.0	60	0	102	74-127	60.58	1.15	30	
Surr: 4-Bromofluorobenzene	26.47	1.0	30	0	88.2	75-131	26.47	0.0355	30	
Surr: Trifluorotoluene	31.2	1.0	30	0	104	73-130	30.65	1.8	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91786** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1005814-01A	1005814-02A	1005814-03A
1005814-04A	1005814-05A	1005814-06A
1005814-07A	1005814-08A	1005814-09A
1005814-10A	1005814-11A	1005814-12A
1005814-13A	1005814-14A	1005814-15A
1005814-16A	1005814-17A	1005814-18A
1005814-19A	1005814-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91787 Instrument ID BTEX3 Method: SW8021B

MBLK		Sample ID: BBLKS1-052710-R91787				Units: µg/Kg		Analysis Date: 5/27/2010 01:17 PM		
Client ID:		Run ID: BTEX3_100527A				SeqNo: 1978150		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	26.45	1.0	30	0	88.2	75-131	0			
Surr: Trifluorotoluene	30.31	1.0	30	0	101	73-130	0			

LCS		Sample ID: BLCSS1-052710-R91787				Units: µg/Kg		Analysis Date: 5/27/2010 10:07 AM		
Client ID:		Run ID: BTEX3_100527A				SeqNo: 1978149		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.81	1.0	20	0	99.1	74-129	0			
Toluene	19.75	1.0	20	0	98.8	75-128	0			
Ethylbenzene	20.36	1.0	20	0	102	73-127	0			
Xylenes, Total	60.3	3.0	60	0	100	74-127	0			
Surr: 4-Bromofluorobenzene	26.23	1.0	30	0	87.4	75-131	0			
Surr: Trifluorotoluene	30.74	1.0	30	0	102	73-130	0			

MS		Sample ID: 1005814-31AMS				Units: µg/Kg		Analysis Date: 5/27/2010 06:57 PM		
Client ID: MW-15 100'		Run ID: BTEX3_100527A				SeqNo: 1978166		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.97	1.0	20	0	99.9	74-129	0			
Toluene	20.1	1.0	20	0	101	75-128	0			
Ethylbenzene	19.75	1.0	20	0	98.7	73-127	0			
Xylenes, Total	60.89	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	26.72	1.0	30	0	89.1	75-131	0			
Surr: Trifluorotoluene	30.51	1.0	30	0	102	73-130	0			

MSD		Sample ID: 1005814-31AMSD				Units: µg/Kg		Analysis Date: 5/27/2010 07:17 PM		
Client ID: MW-15 100'		Run ID: BTEX3_100527A				SeqNo: 1978168		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.8	1.0	20	0	99	74-129	19.97	0.855	30	
Toluene	19.81	1.0	20	0	99.1	75-128	20.1	1.45	30	
Ethylbenzene	20.53	1.0	20	0	103	73-127	19.75	3.89	30	
Xylenes, Total	60.9	3.0	60	0	102	74-127	60.89	0.0137	30	
Surr: 4-Bromofluorobenzene	27.9	1.0	30	0	93	75-131	26.72	4.34	30	
Surr: Trifluorotoluene	30.76	1.0	30	0	103	73-130	30.51	0.824	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91787 Instrument ID BTEX3 Method: SW8021B

The following samples were analyzed in this batch:

1005814-24A	1005814-25A	1005814-26A
1005814-27A	1005814-28A	1005814-29A
1005814-30A	1005814-31A	1005814-32A
1005814-33A	1005814-34A	1005814-35A
1005814-36A	1005814-37A	1005814-38A
1005814-39A	1005814-40A	1005814-41A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91789 Instrument ID BTEX3 Method: SW8021B

MBLK		Sample ID: BBLKS1-052810-R91789				Units: µg/Kg		Analysis Date: 5/28/2010 01:53 AM		
Client ID:		Run ID: BTEX3_100527B				SeqNo: 1978191		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.65	1.0	30	0	82.2	75-131	0			
Surr: Trifluorotoluene	29.17	1.0	30	0	97.2	73-130	0			

LCS		Sample ID: BLCSS1-052810-R91789				Units: µg/Kg		Analysis Date: 5/28/2010 01:13 AM		
Client ID:		Run ID: BTEX3_100527B				SeqNo: 1978190		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.76	1.0	20	0	98.8	74-129	0			
Toluene	19.64	1.0	20	0	98.2	75-128	0			
Ethylbenzene	20.1	1.0	20	0	101	73-127	0			
Xylenes, Total	59	3.0	60	0	98.3	74-127	0			
Surr: 4-Bromofluorobenzene	25.87	1.0	30	0	86.2	75-131	0			
Surr: Trifluorotoluene	30.46	1.0	30	0	102	73-130	0			

MS		Sample ID: 1005814-42AMS				Units: µg/Kg		Analysis Date: 5/28/2010 02:33 AM		
Client ID: MW-17 100'		Run ID: BTEX3_100527B				SeqNo: 1978193		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.56	1.0	20	0	97.8	74-129	0			
Toluene	19.24	1.0	20	0	96.2	75-128	0			
Ethylbenzene	19.72	1.0	20	0	98.6	73-127	0			
Xylenes, Total	57.82	3.0	60	0	96.4	74-127	0			
Surr: 4-Bromofluorobenzene	26.16	1.0	30	0	87.2	75-131	0			
Surr: Trifluorotoluene	30.75	1.0	30	0	103	73-130	0			

MSD		Sample ID: 1005814-42AMSD				Units: µg/Kg		Analysis Date: 5/28/2010 02:53 AM		
Client ID: MW-17 100'		Run ID: BTEX3_100527B				SeqNo: 1978194		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.82	1.0	20	0	99.1	74-129	19.56	1.32	30	
Toluene	19.59	1.0	20	0	98	75-128	19.24	1.82	30	
Ethylbenzene	20.07	1.0	20	0	100	73-127	19.72	1.79	30	
Xylenes, Total	59.03	3.0	60	0	98.4	74-127	57.82	2.06	30	
Surr: 4-Bromofluorobenzene	25.4	1.0	30	0	84.7	75-131	26.16	2.92	30	
Surr: Trifluorotoluene	29.86	1.0	30	0	99.5	73-130	30.75	2.95	30	

The following samples were analyzed in this batch:

1005814-42A 1005814-45A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91913 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 05:25 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981090 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.07634	0.0050	0.1	0	76.3	70-130	0			

LCS Sample ID: GLCSS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 04:37 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981088 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.102	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	0.08168	0.0050	0.1	0	81.7	70-130	0			

MS Sample ID: 1005714-21BMS Units: mg/Kg Analysis Date: 5/27/2010 06:13 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981092 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.143	0.050	1	0	114	70-130	0			
Surr: 4-Bromofluorobenzene	0.08256	0.0050	0.1	0	82.6	70-130	0			

MSD Sample ID: 1005714-21BMSD Units: mg/Kg Analysis Date: 5/27/2010 06:37 AM

Client ID: Run ID: FID-9_100526B SeqNo: 1981093 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.135	0.050	1	0	113	70-130	1.143	0.78	30	
Surr: 4-Bromofluorobenzene	0.08305	0.0050	0.1	0	83	70-130	0.08256	0.593	30	

The following samples were analyzed in this batch:

1005814-01B	1005814-02B	1005814-03B
1005814-04B	1005814-05B	1005814-06B
1005814-07B	1005814-08B	1005814-09B
1005814-10B	1005814-11B	1005814-12B
1005814-13B	1005814-14B	1005814-15B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91920 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052710-R91920 Units: mg/Kg Analysis Date: 5/27/2010 07:42 PM

Client ID: Run ID: FID-9_100527A SeqNo: 1981270 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.07679	0.0050	0.1	0	76.8	70-130	0			

LCS Sample ID: GLCSS-052710-R91920 Units: mg/Kg Analysis Date: 5/27/2010 07:15 PM

Client ID: Run ID: FID-9_100527A SeqNo: 1981268 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.161	0.050	1	0	116	70-130	0			
Surr: 4-Bromofluorobenzene	0.08481	0.0050	0.1	0	84.8	70-130	0			

MS Sample ID: 1005814-16BMS Units: mg/Kg Analysis Date: 5/27/2010 08:30 PM

Client ID: MW-28 60' Run ID: FID-9_100527A SeqNo: 1981273 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.134	0.050	1	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	0.08418	0.0050	0.1	0	84.2	70-130	0			

MSD Sample ID: 1005814-16BMSD Units: mg/Kg Analysis Date: 5/27/2010 08:54 PM

Client ID: MW-28 60' Run ID: FID-9_100527A SeqNo: 1981274 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.133	0.050	1	0	113	70-130	1.134	0.0758	30	
Surr: 4-Bromofluorobenzene	0.08338	0.0050	0.1	0	83.4	70-130	0.08418	0.954	30	

The following samples were analyzed in this batch:

1005814-16B	1005814-17B	1005814-18B
1005814-19B	1005814-20B	1005814-21B
1005814-22B	1005814-23B	1005814-24B
1005814-25B	1005814-26B	1005814-27B
1005814-28B	1005814-29B	1005814-30B
1005814-31B	1005814-32B	1005814-33B
1005814-34B	1005814-35B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91941** Instrument ID **FID-9** Method: **SW8015**

MBLK	Sample ID: GBLKS-052810-R91941				Units: mg/Kg		Analysis Date: 5/28/2010 06:29 AM			
Client ID:	Run ID: FID-9_100527B				SeqNo: 1981658		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.07966	0.0050	0.1	0	79.7	70-130	0			

LCS	Sample ID: GLCSS-052810-R91941				Units: mg/Kg		Analysis Date: 5/28/2010 06:05 AM			
Client ID:	Run ID: FID-9_100527B				SeqNo: 1981657		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.115	0.050	1	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	0.08187	0.0050	0.1	0	81.9	70-130	0			

MS	Sample ID: 1005814-40BMS				Units: mg/Kg		Analysis Date: 5/28/2010 08:52 AM			
Client ID: MW-17 80'		Run ID: FID-9_100527B			SeqNo:1981679		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.089	0.050	1	0	109	70-130	0			
Surr: 4-Bromofluorobenzene	0.08212	0.0050	0.1	0	82.1	70-130	0			

MSD	Sample ID: 1005814-40BMSD				Units: mg/Kg		Analysis Date: 5/28/2010 09:16 AM			
Client ID: MW-17 80'		Run ID: FID-9_100527B			SeqNo: 1981684		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.09	0.050	1	0	109	70-130	1.089	0.00624	30	
Surr: 4-Bromofluorobenzene	0.08248	0.0050	0.1	0	82.5	70-130	0.08212	0.445	30	

The following samples were analyzed in this batch:

1005814-36B	1005814-37B	1005814-38B
1005814-39B	1005814-40B	1005814-41B
1005814-42B	1005814-45B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43330 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:31 AM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978716 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2.96	5.0								J
Surr: Selenate (surr)	50.69	1.0	50	0	101	85-115	0			

LCS Sample ID: WLCSS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:53 AM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978717 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	200.2	5.0	200	0	100	90-110	0			
Surr: Selenate (surr)	49.62	1.0	50	0	99.2	85-115	0			

MS Sample ID: 1005898-01AMS Units: mg/Kg Analysis Date: 5/29/2010 01:18 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978720 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	125.3	4.6	92.94	33.07	99.3	75-125	0			
Surr: Selenate (surr)	47.76	0.93	46.47	0	103	80-120	0			

MS Sample ID: 1005814-16BMS Units: mg/Kg Analysis Date: 5/29/2010 08:48 PM

Client ID: MW-28 60' Run ID: ICS3000_100529A SeqNo: 1978766 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.9	4.7	94.52	9.641	98.6	75-125	0			
Surr: Selenate (surr)	48.77	0.94	47.26	0	103	80-120	0			

MSD Sample ID: 1005898-01AMSD Units: mg/Kg Analysis Date: 5/29/2010 01:39 PM

Client ID: Run ID: ICS3000_100529A SeqNo: 1978721 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	125	4.6	92.94	33.07	98.9	75-125	125.3	0.282	20	
Surr: Selenate (surr)	47.66	0.93	46.47	0	103	80-120	47.76	0.214	20	

MSD Sample ID: 1005814-16BMSD Units: mg/Kg Analysis Date: 5/29/2010 09:10 PM

Client ID: MW-28 60' Run ID: ICS3000_100529A SeqNo: 1978767 Prep Date: 5/26/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.9	4.7	94.52	9.641	98.6	75-125	102.9	0.00919	20	
Surr: Selenate (surr)	48.71	0.94	47.26	0	103	80-120	48.77	0.136	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43330** Instrument ID **ICS3000** Method: **E300**

The following samples were analyzed in this batch:

1005814-01B	1005814-02B	1005814-03B
1005814-04B	1005814-05B	1005814-06B
1005814-07B	1005814-08B	1005814-09B
1005814-10B	1005814-11B	1005814-12B
1005814-13B	1005814-14B	1005814-15B
1005814-16B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005814
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43359 Instrument ID ICS3000 Method: E300

MS Sample ID: 1005814-17BMS Units: mg/Kg Analysis Date: 6/1/2010 03:23 PM
 Client ID: MW-28 70' Run ID: ICS3000_100601A SeqNo: 1979813 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	101.3	4.8	97.09	3.99	100	75-125	0			
Surr: Selenate (surr)	50.31	0.97	48.54	0	104	80-120	0			

MS Sample ID: 1005814-36BMS Units: mg/Kg Analysis Date: 6/2/2010 12:19 AM
 Client ID: MW-17 40' Run ID: ICS3000_100601A SeqNo: 1979850 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	215.1	4.8	96.15	119.6	99.3	75-125	0			
Surr: Selenate (surr)	50.01	0.96	48.08	0	104	80-120	0			

MSD Sample ID: 1005814-17BMSD Units: mg/Kg Analysis Date: 6/1/2010 03:44 PM
 Client ID: MW-28 70' Run ID: ICS3000_100601A SeqNo: 1979814 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	101	4.8	97.09	3.99	99.9	75-125	101.3	0.278	20	
Surr: Selenate (surr)	50.07	0.97	48.54	0	103	80-120	50.31	0.484	20	

MSD Sample ID: 1005814-36BMSD Units: mg/Kg Analysis Date: 6/2/2010 12:41 AM
 Client ID: MW-17 40' Run ID: ICS3000_100601A SeqNo: 1979851 Prep Date: 5/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	214.8	4.8	96.15	119.6	99	75-125	215.1	0.13	20	
Surr: Selenate (surr)	50.02	0.96	48.08	0	104	80-120	50.01	0.0192	20	

The following samples were analyzed in this batch:

1005814-17B	1005814-18B	1005814-19B
1005814-20B	1005814-21B	1005814-22B
1005814-23B	1005814-24B	1005814-25B
1005814-26B	1005814-27B	1005814-28B
1005814-29B	1005814-30B	1005814-31B
1005814-32B	1005814-33B	1005814-34B
1005814-35B	1005814-36B	

Client: Navajo Refining Company
Work Order: 1005814
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43394 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-060110-43394 Units: mg/Kg Analysis Date: 6/3/2010 06:13 AM
Client ID: Run ID: ICS2100_100602B SeqNo: 1981638 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	4.738	1.0	5	0	94.8	85-115	0			

LCS Sample ID: WLCSS1-060110-43394 Units: mg/Kg Analysis Date: 6/3/2010 06:27 AM
Client ID: Run ID: ICS2100_100602B SeqNo: 1981639 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.52	5.0	20	0	97.6	90-110	0			
Surr: Selenate (surr)	4.837	1.0	5	0	96.7	85-115	0			

MS Sample ID: 1005814-37BMS Units: mg/Kg Analysis Date: 6/3/2010 06:56 AM
Client ID: MW-17 50' Run ID: ICS2100_100602B SeqNo: 1981641 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	169.9	4.7	93.81	79	97	75-125	0			
Surr: Selenate (surr)	46.12	0.94	46.9	0	98.3	80-120	0			

MSD Sample ID: 1005814-37BMSD Units: mg/Kg Analysis Date: 6/3/2010 07:11 AM
Client ID: MW-17 50' Run ID: ICS2100_100602B SeqNo: 1981642 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	169.2	4.7	93.81	79	96.2	75-125	169.9	0.415	20	
Surr: Selenate (surr)	45.55	0.94	46.9	0	97.1	80-120	46.12	1.23	20	

The following samples were analyzed in this batch:

1005814-37B	1005814-38B	1005814-39B
1005814-40B	1005814-41B	1005814-42B
1005814-45B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

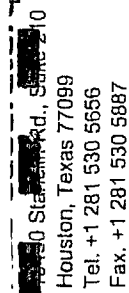
Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1005814

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



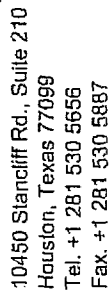
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 5[illegible]

Notes:

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2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Customer Information				Project Information				ALS Project Manager:				ALS Work Order #:							
Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Project Name			Lea Refinery New Wells			A				BTEX (8021)								
Work Order	Project Number			NAV-10-003			B				GRO (8015M)								
Company Name	Bill-To Company			Navajo Refining Company			C				DRO (8015M)								
Send Report To	Invoice Attn			Dartrell Moore			D				ORO (8015M)								
Address	P.O. Box 159			P.O. Box 159			E				Antions (300) CI								
City/State/Zip	Artesia, NM 88211			Artesia, NM 88211			G												
Phone	(505) 748-3311			(505) 740-3311			H												
Fax	(505) 746-5421			(505) 746-5421			I												
e-Mail Address	dgboyer@SESI-NM.com			e-Mail Address			J												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-28 10'	5/23/10	0835	Soil	B	2	X	X	X	X	X								
2	20'		0845																
3	30'		0855																
4	40'		0905																
5	50'		0915																
6	60'		0935																
7	70'		0950																
8	80'		1000																
9	90'		1710																
10	MW-28 100'	5/23/10	1020	Soil	B	2	X	X	X	X	X								
Relinquished by: <i>D. Boyer</i>				Relinquished by: <i>D. Boyer</i>				Relinquished by: <i>D. Boyer</i>				Relinquished by: <i>D. Boyer</i>				Relinquished by: <i>D. Boyer</i>			
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Fax: +1 281 530 5887

Page 3 of 5

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Fax: +1 616 399 6185

Customer Information				Project Information				ALS Project Manager												ALS Work Order # 100584											
Project Name				Lea Refinery New Wells				Parameter/Method Request for Analysis																							
Project Number				NAV-10-003				A BTEX (8021)																							
Bill To Company				Navajo Refining Company				B GRO (8015M)																							
Invoice Attn				Darrell Moore				C DRO (8015M)																							
Address				P.O. Box 159				D ORO (8015M)																							
City/State/Zip				Artesia, NM 88211				E Anions (300) Cl																							
Phone				(505) 748-3311				F																							
Fax				(505) 746-5421				G																							
e-Mail Address				dgmoyer@SESI-NM.com				H																							
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold														
2	MW-28 105'	5/22/10	1025	Soil	8	2	X	X	X	X	X																				
3	MW-15 10'		1440																												
4	20'		1450																												
5	30'		1515																												
6	40'		1525																												
7	55'		1540																												
8	60'		1600																												
9	70'		1615																												
10	80'		1625																												
	MW-15 90'	5/22/10	1635	Soil	8	2	X	X	X	X	X																				

Shipments		Required Turnaround Time (Check Box)		Results Due Date	
Sample(s) Please Print & Sign	Shipment Method	Required Turnaround Time (Check Box)	Other Days	Results Due Date	Results Due Date
Boyer, N. Boyer	FedEx	10 Business Days	Other: _____	5/24/10	5/24/10

Relinquished by:		Received by:		Notes:	
Date	Time	Date	Time	10 Day TAT. Cc Dave Boyer	
5/24/10	0900	5/25/10	0845		

Relinquished by:		Received by:		QC Package: (Check One Box Below)	
Date	Time	Date	Time	Level II Std QC	Level III Std QC/RW Data
5/24/10	0900	5/25/10	0845	☒	☐

Relinquished by:		Received by:		Preservative Key	
Date	Time	Date	Time	1-HCl	2-HNO ₃
5/24/10	0900	5/25/10	0845	☒	☐

Relinquished by:		Received by:		Cooler Temp.	
Date	Time	Date	Time	Cooler ID	Other
5/24/10	0900	5/25/10	0845		

Relinquished by:		Received by:		TRRP Checklist	
Date	Time	Date	Time	Level IV SWM/CLP	Other
5/24/10	0900	5/25/10	0845	☐	☐

This portion can be removed for recipient's records...

to 5/24/10 FedEx Tracking Number

869809950735

Sender's
name

B. Boyer
SEST

Phone

713-397-0510

Company

Address

703 E. Clinton

Depot/Post/Sortal Room

H266

State

NM

ZIP

88040

Internal Billing Reference

NAU-10-003

Laboratory Group

Suite 210

Date:

Name:

Company:

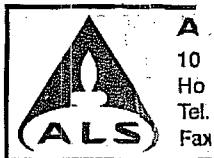
CUSTODY SEAL

Date: 5/24/10

Time: 0900

Seal Broken By:

Date:



A 10 Ho Tel. Fax

A 07:35 05:25

1

RT 723

FZ

This portion can be removed for recipient's records.

to 5/24/10 FedEx Tracking Number

872096703955

Sender's
name

B. Boyer

Phone

713-397-0510

Company

SEST

Address

703 E. Clinton

Depot/Post/Sortal Room

H266

State

NM

ZIP

88040

Internal Billing Reference

NAU-10-003



ALS Laboratory Group

10450 Standcliff Rd., Suite 210

Houston, Texas 77099

Tel. +1 281 530 5656

Fax. +1 281 530 5887

CUSTODY SEAL

Date: 5/24/10

Time: 0900

Name:

Company:

Seal Broken By:

Date:

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 25-May-10 09:45

Work Order: 1005814

Received by: RDH

Checklist completed by Robert D. Harris
eSignature

25-May-10
Date

Reviewed by: Jay Lynn F Thibault
eSignature

28-May-10
Date

Matrices: soils/waters

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 1.8c, 0.8c 002

Cooler(s)/Kit(s): 1703, 3406

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes: Sample MW-17 sampled at 13:00 not on COC; logged in at end of WO with analysis.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

15-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005946

Dear Darrell,

ALS Laboratory Group received 47 samples on 28-May-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 80.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005946

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005946-01	MW-16 10'	Soil		5/24/2010 09:50	5/28/2010 09:00	☐
1005946-02	MW-16 20'	Soil		5/24/2010 10:05	5/28/2010 09:00	☐
1005946-03	MW-16 30'	Soil		5/24/2010 10:15	5/28/2010 09:00	☐
1005946-04	MW-16 40'	Soil		5/24/2010 10:25	5/28/2010 09:00	☐
1005946-05	MW-16 50'	Soil		5/24/2010 10:40	5/28/2010 09:00	☐
1005946-06	MW-16 60'	Soil		5/24/2010 10:50	5/28/2010 09:00	☐
1005946-07	MW-16 70'	Soil		5/24/2010 11:00	5/28/2010 09:00	☐
1005946-08	MW-16 80'	Soil		5/24/2010 11:20	5/28/2010 09:00	☐
1005946-09	MW-16 90'	Soil		5/24/2010 11:30	5/28/2010 09:00	☐
1005946-10	MW-16 100'	Soil		5/24/2010 11:24	5/28/2010 09:00	☐
1005946-11	MW-16 105'	Soil		5/24/2010 11:50	5/28/2010 09:00	☐
1005946-12	MW-22 5-10'	Soil		5/25/2010 10:30	5/28/2010 09:00	☐
1005946-13	MW-22 20'	Soil		5/25/2010 10:40	5/28/2010 09:00	☐
1005946-14	MW-22 30'	Soil		5/25/2010 10:50	5/28/2010 09:00	☐
1005946-15	MW-22 40'	Soil		5/25/2010 11:00	5/28/2010 09:00	☐
1005946-16	MW-22 50'	Soil		5/25/2010 11:10	5/28/2010 09:00	☐
1005946-17	MW-22 60'	Soil		5/25/2010 11:20	5/28/2010 09:00	☐
1005946-18	MW-22 70'	Soil		5/25/2010 11:30	5/28/2010 09:00	☐
1005946-19	MW-22 80'	Soil		5/25/2010 11:40	5/28/2010 09:00	☐
1005946-20	MW-22 90'	Soil		5/25/2010 11:50	5/28/2010 09:00	☐
1005946-21	MW-22 95'	Soil		5/25/2010 12:00	5/28/2010 09:00	☐
1005946-22	MW-23 10'	Soil		5/26/2010 08:20	5/28/2010 09:00	☐
1005946-23	MW-23 20'	Soil		5/26/2010 08:30	5/28/2010 09:00	☐
1005946-24	MW-23 30'	Soil		5/26/2010 08:40	5/28/2010 09:00	☐
1005946-25	MW-23 40'	Soil		5/26/2010 08:50	5/28/2010 09:00	☐
1005946-26	MW-23 50'	Soil		5/26/2010 09:05	5/28/2010 09:00	☐
1005946-27	MW-23 60'	Soil		5/26/2010 09:15	5/28/2010 09:00	☐
1005946-28	MW-23 70'	Soil		5/26/2010 09:30	5/28/2010 09:00	☐
1005946-29	MW-23 80'	Soil		5/26/2010 09:45	5/28/2010 09:00	☐
1005946-30	MW-23 90'	Soil		5/26/2010 09:55	5/28/2010 09:00	☐
1005946-31	MW-23 95'	Soil		5/26/2010 10:05	5/28/2010 09:00	☐
1005946-32	MW-23 100'	Soil		5/26/2010 10:15	5/28/2010 09:00	☐
1005946-33	MW-24 10'	Soil		5/26/2010 15:05	5/28/2010 09:00	☐
1005946-34	MW-24 20'	Soil		5/26/2010 15:20	5/28/2010 09:00	☐
1005946-35	MW-24 30'	Soil		5/26/2010 15:30	5/28/2010 09:00	☐
1005946-36	MW-24 40'	Soil		5/26/2010 15:40	5/28/2010 09:00	☐
1005946-37	MW-24 50'	Soil		5/26/2010 15:50	5/28/2010 09:00	☐
1005946-38	MW-24 60'	Soil		5/26/2010 16:05	5/28/2010 09:00	☐
1005946-39	MW-24 70'	Soil		5/26/2010 16:20	5/28/2010 09:00	☐

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005946

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1005946-40	MW-24 80'	Soil		5/26/2010 16:35	5/28/2010 09:00	☐
1005946-41	MW-24 90'	Soil		5/26/2010 16:45	5/28/2010 09:00	☐
1005946-42	MW-24 95'	Soil		5/26/2010 16:50	5/28/2010 09:00	☐
1005946-43	MW-24 100'	Soil		5/26/2010 17:00	5/28/2010 09:00	☐
1005946-44	MW-24 105'	Soil		5/26/2010 17:15	5/28/2010 09:00	☐
1005946-45	Trip Blank 051710-90	Water		5/26/2010	5/28/2010 09:00	☐
1005946-46	Trip Blank 051710-08	Water		5/26/2010	5/28/2010 09:00	☐
1005946-47	MW-16 15'	Soil		5/24/2010 10:00	5/28/2010 09:00	☐

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1005946

Case Narrative

Batch R92083 BTEX (Sample 1005946-25) recovery out of control limits for surrogate.
Confirmed by re-analysis.

TPH (samples 1005946-03, 04, 08, 09, 11 and 13) recovery high out of control limits for surrogate. Samples are non detect.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-16 10'
Collection Date: 5/24/2010 09:50 AM

Work Order: 1005946
Lab ID: 1005946-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 12:31 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 12:31 PM
Surr: 2-Fluorobiphenyl	100		70-130	%REC	1	6/7/2010 12:31 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 02:49 AM
Surr: 4-Bromofluorobenzene	94.4		70-130	%REC	1	6/6/2010 02:49 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/2/2010 03:26 AM
Toluene	ND		0.0010	mg/Kg	1	6/2/2010 03:26 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/2/2010 03:26 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/2/2010 03:26 AM
Surr: 4-Bromofluorobenzene	85.7		75-131	%REC	1	6/2/2010 03:26 AM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/2/2010 03:26 AM
ANIONS			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	39.0		5.00	mg/Kg	1	6/4/2010 11:03 PM
Surr: Selenate (surr)	97.3		85-115	%REC	1	6/4/2010 11:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-16 20'
Collection Date: 5/24/2010 10:05 AM

Work Order: 1005946
Lab ID: 1005946-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 12:51 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 12:51 PM
Surr: 2-Fluorobiphenyl	118		70-130	%REC	1	6/7/2010 12:51 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	0.32		0.050	mg/Kg	1	6/6/2010 03:12 AM
Surr: 4-Bromofluorobenzene	99.9		70-130	%REC	1	6/6/2010 03:12 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 12:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 12:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 12:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 12:27 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/5/2010 12:27 PM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	6/5/2010 12:27 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/4/2010 11:46 PM
Surr: Selenate (surr)	95.3		85-115	%REC	1	6/4/2010 11:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 30'

Lab ID: 1005946-03

Collection Date: 5/24/2010 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/1/2010 Analyst: KMB 6/7/2010 01:49 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 01:49 PM
Surr: 2-Fluorobiphenyl	136	S		70-130 %REC	1	6/7/2010 01:49 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/6/2010 03:36 AM
Surr: 4-Bromofluorobenzene	99.8			70-130 %REC	1	6/6/2010 03:36 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/5/2010 12:46 PM
Toluene	ND			0.0010 mg/Kg	1	6/5/2010 12:46 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/5/2010 12:46 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/5/2010 12:46 PM
Surr: 4-Bromofluorobenzene	112			75-131 %REC	1	6/5/2010 12:46 PM
Surr: Trifluorotoluene	99.0			73-130 %REC	1	6/5/2010 12:46 PM
ANIONS						
Chloride	ND		E300	4.95 mg/Kg	1	Prep Date: 6/4/2010 Analyst: IGF 6/5/2010 12:01 AM
Surr: Selenate (surr)	98.3			85-115 %REC	1	6/5/2010 12:01 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-16 40'
Collection Date: 5/24/2010 10:25 AM

Work Order: 1005946
Lab ID: 1005946-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 02:08 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 02:08 PM
Surr: 2-Fluorobiphenyl	133	S	70-130	%REC	1	6/7/2010 02:08 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 03:59 AM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/6/2010 03:59 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 01:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 01:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 01:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 01:07 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/5/2010 01:07 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/5/2010 01:07 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		4.98	mg/Kg	1	6/5/2010 12:15 AM
Surr: Selenate (surr)	98.5		85-115	%REC	1	6/5/2010 12:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 50'

Lab ID: 1005946-05

Collection Date: 5/24/2010 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 03:06 PM
Surr: 2-Fluorobiphenyl	116			70-130 %REC	1	6/7/2010 03:06 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
Surr: 4-Bromofluorobenzene	100			70-130 %REC	1	6/6/2010 04:22 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
Toluene	ND			0.0010 mg/Kg	1	6/5/2010 01:27 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/5/2010 01:27 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/5/2010 01:27 PM
Surr: 4-Bromofluorobenzene	110			75-131 %REC	1	6/5/2010 01:27 PM
Surr: Trifluorotoluene	102			73-130 %REC	1	6/5/2010 01:27 PM
ANIONS						
Chloride	12.8		E300	5.00 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
Surr: Selenate (surr)	97.5			85-115 %REC	1	6/5/2010 12:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 60'

Lab ID: 1005946-06

Collection Date: 5/24/2010 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 03:26 PM
Surr: 2-Fluorobiphenyl	108			70-130 %REC	1	6/7/2010 03:26 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
Surr: 4-Bromofluorobenzene	101			70-130 %REC	1	6/6/2010 04:46 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
Toluene	ND			0.0010 mg/Kg	1	6/5/2010 02:34 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/5/2010 02:34 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/5/2010 02:34 PM
Surr: 4-Bromofluorobenzene	113			75-131 %REC	1	6/5/2010 02:34 PM
Surr: Trifluorotoluene	101			73-130 %REC	1	6/5/2010 02:34 PM
ANIONS						
Chloride	ND		E300	4.98 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
Surr: Selenate (surr)	98.3			85-115 %REC	1	6/5/2010 12:44 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 70'

Lab ID: 1005946-07

Collection Date: 5/24/2010 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 03:45 PM
Surr: 2-Fluorobiphenyl	114			70-130 %REC	1	6/7/2010 03:45 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
Surr: 4-Bromofluorobenzene	97.1			70-130 %REC	1	6/6/2010 06:19 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
Toluene	ND			0.0010 mg/Kg	1	6/5/2010 02:55 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/5/2010 02:55 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/5/2010 02:55 PM
Surr: 4-Bromofluorobenzene	114			75-131 %REC	1	6/5/2010 02:55 PM
Surr: Trifluorotoluene	102			73-130 %REC	1	6/5/2010 02:55 PM
ANIONS						
Chloride	ND		E300	4.95 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
Surr: Selenate (surr)	96.6			85-115 %REC	1	6/5/2010 01:28 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 80'

Lab ID: 1005946-08

Collection Date: 5/24/2010 11:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 05:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 05:59 PM
Surr: 2-Fluorobiphenyl	138	S	70-130	%REC	1	6/7/2010 05:59 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 07:28 AM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/6/2010 07:28 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 03:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 03:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 03:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 03:43 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/5/2010 03:43 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/5/2010 03:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/5/2010 01:43 AM
Surr: Selenate (surr)	98.0		85-115	%REC	1	6/5/2010 01:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 90'

Lab ID: 1005946-09

Collection Date: 5/24/2010 11:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 06:19 PM
Surr: 2-Fluorobiphenyl	153	S	70-130	%REC	1	6/7/2010 06:19 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	6/6/2010 07:51 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
Toluene	ND			0.0010 mg/Kg	1	6/5/2010 04:03 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/5/2010 04:03 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/5/2010 04:03 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/5/2010 04:03 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/5/2010 04:03 PM
ANIONS						
Chloride	ND		E300	4.98 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
Surr: Selenate (surr)	97.7		85-115	%REC	1	6/5/2010 01:57 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-16 100'
Collection Date: 5/24/2010 11:24 AM

Work Order: 1005946
Lab ID: 1005946-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 06:38 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 06:38 PM
Surr: 2-Fluorobiphenyl	119		70-130	%REC	1	6/7/2010 06:38 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 08:15 AM
Surr: 4-Bromofluorobenzene	99.3		70-130	%REC	1	6/6/2010 08:15 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 04:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 04:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 04:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 04:23 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/5/2010 04:23 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/5/2010 04:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/5/2010 03:07 PM
Surr: Selenate (surr)	95.4		85-115	%REC	1	6/5/2010 03:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 105'

Lab ID: 1005946-11

Collection Date: 5/24/2010 11:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 06:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 06:57 PM
Surr: 2-Fluorobiphenyl	146	S	70-130	%REC	1	6/7/2010 06:57 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 08:38 AM
Surr: 4-Bromofluorobenzene	93.3		70-130	%REC	1	6/6/2010 08:38 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 04:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 04:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 04:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 04:43 PM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/5/2010 04:43 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/5/2010 04:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.40		5.00	mg/Kg	1	6/5/2010 03:21 PM
Surr: Selenate (surr)	97.6		85-115	%REC	1	6/5/2010 03:21 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 5-10'

Lab ID: 1005946-12

Collection Date: 5/25/2010 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 07:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 07:17 PM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	6/7/2010 07:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 09:01 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/6/2010 09:01 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 05:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 05:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 05:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 05:03 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/5/2010 05:03 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/5/2010 05:03 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	9.35		4.99	mg/Kg	1	6/5/2010 03:36 PM
Surr: Selenate (surr)	97.9		85-115	%REC	1	6/5/2010 03:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 20'

Lab ID: 1005946-13

Collection Date: 5/25/2010 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 07:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 07:36 PM
Surr: 2-Fluorobiphenyl	135	S	70-130	%REC	1	6/7/2010 07:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 09:47 AM
Surr: 4-Bromofluorobenzene	98.1		70-130	%REC	1	6/6/2010 09:47 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 05:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 05:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 05:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 05:23 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/5/2010 05:23 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/5/2010 05:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	88.5		4.99	mg/Kg	1	6/5/2010 02:55 AM
Surr: Selenate (surr)	97.0		85-115	%REC	1	6/5/2010 02:55 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 30'

Lab ID: 1005946-14

Collection Date: 5/25/2010 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 11:48 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 11:48 PM
Surr: 2-Fluorobiphenyl	87.4		70-130	%REC	1	6/7/2010 11:48 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 10:11 AM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/6/2010 10:11 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 05:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 05:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 05:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 05:43 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/5/2010 05:43 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/5/2010 05:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	14.3		4.99	mg/Kg	1	6/5/2010 03:10 AM
Surr: Selenate (surr)	98.9		85-115	%REC	1	6/5/2010 03:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 40'

Lab ID: 1005946-15

Collection Date: 5/25/2010 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 08:34 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 08:34 PM
Surr: 2-Fluorobiphenyl	129		70-130	%REC	1	6/7/2010 08:34 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 10:34 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/6/2010 10:34 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 06:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 06:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 06:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 06:03 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/5/2010 06:03 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/5/2010 06:03 PM
ANIONS			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/5/2010 03:24 AM
Surr: Selenate (surr)	95.6		85-115	%REC	1	6/5/2010 03:24 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 50'

Lab ID: 1005946-16

Collection Date: 5/25/2010 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 10:50 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 10:50 PM
Surr: 2-Fluorobiphenyl	120		70-130	%REC	1	6/7/2010 10:50 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 10:57 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/6/2010 10:57 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 06:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 06:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 06:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 06:23 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/5/2010 06:23 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/5/2010 06:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/5/2010 03:39 AM
Surr: Selenate (surr)	98.5		85-115	%REC	1	6/5/2010 03:39 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 60'

Lab ID: 1005946-17

Collection Date: 5/25/2010 11:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 10:31 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 10:31 PM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/7/2010 10:31 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 11:20 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	6/6/2010 11:20 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 06:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 06:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 06:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 06:43 PM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/5/2010 06:43 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/5/2010 06:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	7.20		5.00	mg/Kg	1	6/5/2010 04:23 AM
Surr: Selenate (surr)	95.6		85-115	%REC	1	6/5/2010 04:23 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 70'

Lab ID: 1005946-18

Collection Date: 5/25/2010 11:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 10:12 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 10:12 PM
Surr: 2-Fluorobiphenyl	129		70-130	%REC	1	6/7/2010 10:12 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 11:43 AM
Surr: 4-Bromofluorobenzene	99.0		70-130	%REC	1	6/6/2010 11:43 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 07:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 07:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 07:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 07:23 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/5/2010 07:23 PM
Surr: Trifluorotoluene	98.4		73-130	%REC	1	6/5/2010 07:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.75		5.00	mg/Kg	1	6/5/2010 04:37 AM
Surr: Selenate (surr)	99.6		85-115	%REC	1	6/5/2010 04:37 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 80'

Lab ID: 1005946-19

Collection Date: 5/25/2010 11:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 09:52 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 09:52 PM
Surr: 2-Fluorobiphenyl	121		70-130	%REC	1	6/7/2010 09:52 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 12:07 PM
Surr: 4-Bromofluorobenzene	98.9		70-130	%REC	1	6/6/2010 12:07 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 07:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 07:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 07:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 07:43 PM
Surr: 4-Bromofluorobenzene	118		75-131	%REC	1	6/5/2010 07:43 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/5/2010 07:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/5/2010 04:52 AM
Surr: Selenate (surr)	99.6		85-115	%REC	1	6/5/2010 04:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-22 90'
 Collection Date: 5/25/2010 11:50 AM

Work Order: 1005946
 Lab ID: 1005946-20
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 09:33 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 09:33 PM
Surr: 2-Fluorobiphenyl	111		70-130	%REC	1	6/7/2010 09:33 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 12:30 PM
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	1	6/6/2010 12:30 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 08:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 08:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 08:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 08:03 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/5/2010 08:03 PM
Surr: Trifluorotoluene	98.3		73-130	%REC	1	6/5/2010 08:03 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	13.2		4.98	mg/Kg	1	6/5/2010 05:06 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/5/2010 05:06 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-22 95'
Collection Date: 5/25/2010 12:00 PM

Work Order: 1005946
Lab ID: 1005946-21
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 11:52 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 11:52 AM
Surr: 2-Fluorobiphenyl	118		70-130	%REC	1	6/7/2010 11:52 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 12:53 PM
Surr: 4-Bromofluorobenzene	95.8		70-130	%REC	1	6/6/2010 12:53 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 08:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 08:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 08:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 08:23 PM
Surr: 4-Bromofluorobenzene	84.4		75-131	%REC	1	6/5/2010 08:23 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/5/2010 08:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	9.76		5.00	mg/Kg	1	6/6/2010 08:05 AM
Surr: Selenate (surr)	97.6		85-115	%REC	1	6/6/2010 08:05 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 10'

Lab ID: 1005946-22

Collection Date: 5/26/2010 08:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	4.2		1.7	mg/Kg	1	6/7/2010 12:12 PM
TPH (Motor Oil Range)	54		3.4	mg/Kg	1	6/7/2010 12:12 PM
Surr: 2-Fluorobiphenyl	121		70-130	%REC	1	6/7/2010 12:12 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 01:16 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	6/6/2010 01:16 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 10:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 10:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 10:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 10:03 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/5/2010 10:03 PM
Surr: Trifluorotoluene	96.6		73-130	%REC	1	6/5/2010 10:03 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.70		5.00	mg/Kg	1	6/6/2010 08:49 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/6/2010 08:49 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 20'

Lab ID: 1005946-23

Collection Date: 5/26/2010 08:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 01:10 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 01:10 PM
Surr: 2-Fluorobiphenyl	96.2		70-130	%REC	1	6/7/2010 01:10 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 02:03 PM
Surr: 4-Bromofluorobenzene	95.1		70-130	%REC	1	6/6/2010 02:03 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 10:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 10:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 10:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 10:23 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/5/2010 10:23 PM
Surr: Trifluorotoluene	98.7		73-130	%REC	1	6/5/2010 10:23 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.80		5.00	mg/Kg	1	6/6/2010 09:03 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/6/2010 09:03 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-23 30'
 Collection Date: 5/26/2010 08:40 AM

Work Order: 1005946
 Lab ID: 1005946-24
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	2.8		1.7	mg/Kg	1	6/7/2010 01:29 PM
TPH (Motor Oil Range)	31		3.4	mg/Kg	1	6/7/2010 01:29 PM
Surr: 2-Fluorobiphenyl	123		70-130	%REC	1	6/7/2010 01:29 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/6/2010 02:26 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/6/2010 02:26 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/5/2010 10:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/5/2010 10:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/5/2010 10:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/5/2010 10:43 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/5/2010 10:43 PM
Surr: Trifluorotoluene	99.3		73-130	%REC	1	6/5/2010 10:43 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	11.9		4.98	mg/Kg	1	6/6/2010 09:18 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/6/2010 09:18 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-23 40'
 Collection Date: 5/26/2010 08:50 AM

Work Order: 1005946
 Lab ID: 1005946-25
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/1/2010 Analyst: KMB 6/7/2010 01:49 PM
TPH (Motor Oil Range)	11		3.4 mg/Kg		1	6/7/2010 01:49 PM
Surr: 2-Fluorobiphenyl	119		70-130 %REC		1	6/7/2010 01:49 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/6/2010 02:49 PM
Surr: 4-Bromofluorobenzene	103		70-130 %REC		1	6/6/2010 02:49 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/7/2010 07:15 PM
Toluene	ND		0.0010 mg/Kg		1	6/7/2010 07:15 PM
Ethylbenzene	ND		0.0010 mg/Kg		1	6/7/2010 07:15 PM
Xylenes, Total	ND		0.0030 mg/Kg		1	6/7/2010 07:15 PM
Surr: 4-Bromofluorobenzene	93.7		75-131 %REC		1	6/7/2010 07:15 PM
Surr: Trifluorotoluene	96.7		73-130 %REC		1	6/7/2010 07:15 PM
ANIONS						
Chloride	10.3		E300	4.98 mg/Kg	1	Prep Date: 6/4/2010 Analyst: IGF 6/6/2010 09:32 AM
Surr: Selenate (surr)	98.8		85-115 %REC		1	6/6/2010 09:32 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 50'

Lab ID: 1005946-26

Collection Date: 5/26/2010 09:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
					1	6/7/2010 02:08 PM
TPH (Motor Oil Range)	6.1		SW8015	3.4 mg/Kg	1	6/7/2010 02:08 PM
Surr: 2-Fluorobiphenyl	116			70-130 %REC	1	6/7/2010 02:08 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
						6/6/2010 03:12 PM
Surr: 4-Bromofluorobenzene	101			70-130 %REC	1	6/6/2010 03:12 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
						6/6/2010 10:09 AM
Toluene	ND			0.0010 mg/Kg	1	6/6/2010 10:09 AM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/6/2010 10:09 AM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/6/2010 10:09 AM
Surr: 4-Bromofluorobenzene	107			75-131 %REC	1	6/6/2010 10:09 AM
Surr: Trifluorotoluene	99.5			73-130 %REC	1	6/6/2010 10:09 AM
ANIONS						
Chloride	10.1		E300	4.96 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
					1	6/6/2010 09:47 AM
Surr: Selenate (surr)	99.1			85-115 %REC	1	6/6/2010 09:47 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 60'

Lab ID: 1005946-27

Collection Date: 5/26/2010 09:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	2.0		1.7	mg/Kg	1	6/7/2010 03:06 PM
TPH (Motor Oil Range)	17		3.4	mg/Kg	1	6/7/2010 03:06 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	6/7/2010 03:06 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 10:55 AM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/7/2010 10:55 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 11:09 AM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 11:09 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 11:09 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 11:09 AM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/6/2010 11:09 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/6/2010 11:09 AM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	12.6		4.98	mg/Kg	1	6/6/2010 10:30 AM
Surr: Selenate (surr)	99.7		85-115	%REC	1	6/6/2010 10:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-23 70'
Collection Date: 5/26/2010 09:30 AM

Work Order: 1005946
Lab ID: 1005946-28
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/1/2010 Analyst: KMB 6/7/2010 03:26 PM
TPH (Motor Oil Range)	7.3		3.4 mg/Kg		1	6/7/2010 03:26 PM
Surr: 2-Fluorobiphenyl	119		70-130 %REC		1	6/7/2010 03:26 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/7/2010 11:18 AM
Surr: 4-Bromofluorobenzene	104		70-130 %REC		1	6/7/2010 11:18 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/6/2010 11:29 AM
Toluene	ND		0.0010 mg/Kg		1	6/6/2010 11:29 AM
Ethylbenzene	ND		0.0010 mg/Kg		1	6/6/2010 11:29 AM
Xylenes, Total	ND		0.0030 mg/Kg		1	6/6/2010 11:29 AM
Surr: 4-Bromofluorobenzene	106		75-131 %REC		1	6/6/2010 11:29 AM
Surr: Trifluorotoluene	101		73-130 %REC		1	6/6/2010 11:29 AM
ANIONS						
Chloride	10.9		E300	4.96 mg/Kg	1	Prep Date: 6/4/2010 Analyst: IGF 6/6/2010 10:45 AM
Surr: Selenate (surr)	98.0		85-115 %REC		1	6/6/2010 10:45 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 80'

Lab ID: 1005946-29

Collection Date: 5/26/2010 09:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
					1	6/7/2010 03:45 PM
TPH (Motor Oil Range)	5.4		3.4 mg/Kg		1	6/7/2010 03:45 PM
Surr: 2-Fluorobiphenyl	113		70-130 %REC		1	6/7/2010 03:45 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
					1	6/7/2010 07:32 PM
Surr: 4-Bromofluorobenzene	103		70-130 %REC		1	6/7/2010 07:32 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
					1	6/6/2010 11:49 AM
Toluene	ND		0.0010 mg/Kg		1	6/6/2010 11:49 AM
			0.0010 mg/Kg		1	6/6/2010 11:49 AM
Ethylbenzene	ND		0.0010 mg/Kg		1	6/6/2010 11:49 AM
			0.0030 mg/Kg		1	6/6/2010 11:49 AM
Xylenes, Total	ND		0.0030 mg/Kg		1	6/6/2010 11:49 AM
Surr: 4-Bromofluorobenzene	109		75-131 %REC		1	6/6/2010 11:49 AM
Surr: Trifluorotoluene	103		73-130 %REC		1	6/6/2010 11:49 AM
ANIONS						
Chloride	13.7		E300	4.99 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
					1	6/6/2010 11:00 AM
Surr: Selenate (surr)	99.7		85-115 %REC		1	6/6/2010 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-23 90'
Collection Date: 5/26/2010 09:55 AM

Work Order: 1005946
Lab ID: 1005946-30
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 05:40 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 05:40 PM
Surr: 2-Fluorobiphenyl	114		70-130	%REC	1	6/7/2010 05:40 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 12:08 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/7/2010 12:08 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 12:09 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 12:09 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 12:09 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 12:09 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/6/2010 12:09 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/6/2010 12:09 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	9.57		5.00	mg/Kg	1	6/6/2010 11:14 AM
Surr: Selenate (surr)	98.6		85-115	%REC	1	6/6/2010 11:14 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-23 95'
Collection Date: 5/26/2010 10:05 AM

Work Order: 1005946
Lab ID: 1005946-31
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 05:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 05:59 PM
Surr: 2-Fluorobiphenyl	121		70-130	%REC	1	6/7/2010 05:59 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 12:31 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/7/2010 12:31 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 12:29 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 12:29 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 12:29 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 12:29 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/6/2010 12:29 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/6/2010 12:29 PM
ANIONS			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	7.31		4.99	mg/Kg	1	6/6/2010 11:29 AM
Surr: Selenate (surr)	99.7		85-115	%REC	1	6/6/2010 11:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 100'

Lab ID: 1005946-32

Collection Date: 5/26/2010 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 06:19 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 06:19 PM
Surr: 2-Fluorobiphenyl	117		70-130	%REC	1	6/7/2010 06:19 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 12:54 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/7/2010 12:54 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 01:30 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 01:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 01:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 01:30 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/6/2010 01:30 PM
Surr: Trifluorotoluene	99.2		73-130	%REC	1	6/6/2010 01:30 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	91.9		4.94	mg/Kg	1	6/6/2010 11:43 AM
Surr: Selenate (surr)	98.9		85-115	%REC	1	6/6/2010 11:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 10'

Lab ID: 1005946-33

Collection Date: 5/26/2010 03:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 06:38 PM
Surr: 2-Fluorobiphenyl	107			70-130 %REC	1	6/7/2010 06:38 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP
Surr: 4-Bromofluorobenzene	103			70-130 %REC	1	6/7/2010 02:27 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP
Toluene	ND			0.0010 mg/Kg	1	6/6/2010 01:50 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/6/2010 01:50 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/6/2010 01:50 PM
Surr: 4-Bromofluorobenzene	114			75-131 %REC	1	6/6/2010 01:50 PM
Surr: Trifluorotoluene	105			73-130 %REC	1	6/6/2010 01:50 PM
ANIONS						
Chloride	17.3		E300	4.94 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF
Surr: Selenate (surr)	100			85-115 %REC	1	6/6/2010 11:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 20'

Lab ID: 1005946-34

Collection Date: 5/26/2010 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010 1	Analyst: KMB 6/7/2010 06:57 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/7/2010 06:57 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	6/7/2010 06:57 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/7/2010 02:51 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/7/2010 02:51 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/6/2010 02:10 PM
Toluene	ND			0.0010 mg/Kg	1	6/6/2010 02:10 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/6/2010 02:10 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/6/2010 02:10 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/6/2010 02:10 PM
Surr: Trifluorotoluene	106		73-130	%REC	1	6/6/2010 02:10 PM
ANIONS						
Chloride	9.34		E300	4.97 mg/Kg	Prep Date: 6/4/2010 1	Analyst: IGF 6/6/2010 12:12 PM
Surr: Selenate (surr)	97.7		85-115	%REC	1	6/6/2010 12:12 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 30'

Lab ID: 1005946-35

Collection Date: 5/26/2010 03:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 07:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 07:17 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	1	6/7/2010 07:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 03:14 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/7/2010 03:14 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 02:30 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 02:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 02:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 02:30 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/6/2010 02:30 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/6/2010 02:30 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/6/2010 12:27 PM
Surr: Selenate (surr)	99.4		85-115	%REC	1	6/6/2010 12:27 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-24 40'
Collection Date: 5/26/2010 03:40 PM

Work Order: 1005946
Lab ID: 1005946-36
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 07:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 07:36 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	6/7/2010 07:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 03:38 PM
Surr: 4-Bromofluorobenzene	99.2		70-130	%REC	1	6/7/2010 03:38 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 02:50 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 02:50 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 02:50 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 02:50 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/6/2010 02:50 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/6/2010 02:50 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.98		4.98	mg/Kg	1	6/6/2010 12:41 PM
Surr: Selenate (surr)	99.9		85-115	%REC	1	6/6/2010 12:41 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 50'

Lab ID: 1005946-37

Collection Date: 5/26/2010 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 10:35 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 10:35 AM
Surr: 2-Fluorobiphenyl	125		70-130	%REC	1	6/7/2010 10:35 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 04:01 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/7/2010 04:01 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 03:10 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 03:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 03:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 03:10 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/6/2010 03:10 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/6/2010 03:10 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	8.60		4.99	mg/Kg	1	6/6/2010 01:25 PM
Surr: Selenate (surr)	99.3		85-115	%REC	1	6/6/2010 01:25 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-24 60'
Collection Date: 5/26/2010 04:05 PM

Work Order: 1005946
Lab ID: 1005946-38
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 10:54 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 10:54 AM
Surr: 2-Fluorobiphenyl	106		70-130	%REC	1	6/7/2010 10:54 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 04:25 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	6/7/2010 04:25 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 03:30 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 03:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 03:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 03:30 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/6/2010 03:30 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/6/2010 03:30 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	6.79		5.00	mg/Kg	1	6/6/2010 01:40 PM
Surr: Selenate (surr)	98.6		85-115	%REC	1	6/6/2010 01:40 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-24 70'
 Collection Date: 5/26/2010 04:20 PM

Work Order: 1005946
 Lab ID: 1005946-39
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 11:14 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 11:14 AM
Surr: 2-Fluorobiphenyl	119		70-130	%REC	1	6/7/2010 11:14 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 04:48 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/7/2010 04:48 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 03:50 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 03:50 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 03:50 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 03:50 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/6/2010 03:50 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/6/2010 03:50 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	9.81		4.99	mg/Kg	1	6/6/2010 01:54 PM
Surr: Selenate (surr)	99.6		85-115	%REC	1	6/6/2010 01:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-24 80'
 Collection Date: 5/26/2010 04:35 PM

Work Order: 1005946
 Lab ID: 1005946-40
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/7/2010 11:33 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/7/2010 11:33 AM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	6/7/2010 11:33 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 05:11 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/7/2010 05:11 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 04:10 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 04:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 04:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 04:10 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/6/2010 04:10 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/6/2010 04:10 PM
ANIONS			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	5.19		5.00	mg/Kg	1	6/6/2010 02:09 PM
Surr: Selenate (surr)	98.0		85-115	%REC	1	6/6/2010 02:09 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 90'

Lab ID: 1005946-41

Collection Date: 5/26/2010 04:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 6/1/2010	Analyst: KMB 6/2/2010 01:09 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/2/2010 01:09 PM
Surr: 2-Fluorobiphenyl	105			70-130 %REC	1	6/2/2010 01:09 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/7/2010 05:35 PM
Surr: 4-Bromofluorobenzene	101			70-130 %REC	1	6/7/2010 05:35 PM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/6/2010 04:30 PM
Toluene	ND			0.0010 mg/Kg	1	6/6/2010 04:30 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/6/2010 04:30 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/6/2010 04:30 PM
Surr: 4-Bromofluorobenzene	111			75-131 %REC	1	6/6/2010 04:30 PM
Surr: Trifluorotoluene	102			73-130 %REC	1	6/6/2010 04:30 PM
ANIONS						
Chloride	ND		E300	5.00 mg/Kg	Prep Date: 6/4/2010	Analyst: IGF 6/7/2010 07:37 PM
Surr: Selenate (surr)	97.2			85-115 %REC	1	6/7/2010 07:37 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-24 95'
Collection Date: 5/26/2010 04:50 PM

Work Order: 1005946
Lab ID: 1005946-42
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 12:11 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 12:11 PM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	1	6/2/2010 12:11 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 05:58 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/7/2010 05:58 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 05:30 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 05:30 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 05:30 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 05:30 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/6/2010 05:30 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/6/2010 05:30 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/7/2010 08:20 PM
Surr: Selenate (surr)	99.5		85-115	%REC	1	6/7/2010 08:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 100'

Lab ID: 1005946-43

Collection Date: 5/26/2010 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 11:52 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 11:52 AM
Surr: 2-Fluorobiphenyl	113		70-130	%REC	1	6/2/2010 11:52 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/7/2010 06:45 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/7/2010 06:45 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 05:50 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 05:50 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 05:50 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 05:50 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/6/2010 05:50 PM
Surr: Trifluorotoluene	99.8		73-130	%REC	1	6/6/2010 05:50 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/7/2010 08:35 PM
Surr: Selenate (surr)	97.9		85-115	%REC	1	6/7/2010 08:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 105'

Lab ID: 1005946-44

Collection Date: 5/26/2010 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/1/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/2/2010 11:32 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/2/2010 11:32 AM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	6/2/2010 11:32 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/8/2010 10:30 PM
Surr: 4-Bromofluorobenzene	79.8		70-130	%REC	1	6/8/2010 10:30 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/6/2010 06:10 PM
Toluene	ND		0.0010	mg/Kg	1	6/6/2010 06:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/6/2010 06:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/6/2010 06:10 PM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/6/2010 06:10 PM
Surr: Trifluorotoluene	97.6		73-130	%REC	1	6/6/2010 06:10 PM
ANIONS						
			E300		Prep Date: 6/4/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/7/2010 08:49 PM
Surr: Selenate (surr)	97.4		85-115	%REC	1	6/7/2010 08:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: Trip Blank 051710-90

Lab ID: 1005946-45

Collection Date: 5/26/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/29/2010 03:10 AM
Toluene	ND		0.0010	mg/L	1	5/29/2010 03:10 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/29/2010 03:10 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/29/2010 03:10 AM
Surr: 4-Bromofluorobenzene	99.0		77-129	%REC	1	5/29/2010 03:10 AM
Surr: Trifluorotoluene	97.3		75-130	%REC	1	5/29/2010 03:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: Trip Blank 051710-08
Collection Date: 5/26/2010

Work Order: 1005946
Lab ID: 1005946-46
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	5/29/2010 03:27 AM
Toluene	ND		0.0010	mg/L	1	5/29/2010 03:27 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/29/2010 03:27 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/29/2010 03:27 AM
Surr: 4-Bromofluorobenzene	97.3		77-129	%REC	1	5/29/2010 03:27 AM
Surr: Trifluorotoluene	97.9		75-130	%REC	1	5/29/2010 03:27 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-16 15'
Collection Date: 5/24/2010 10:00 AM

Work Order: 1005946
Lab ID: 1005946-47
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/1/2010 Analyst: KMB 6/14/2010 05:28 PM
TPH (Motor Oil Range)	26		3.4 mg/Kg		1	6/14/2010 05:28 PM
Surr: 2-Fluorobiphenyl	106		70-130 %REC		1	6/14/2010 05:28 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/6/2010 02:25 AM
Surr: 4-Bromofluorobenzene	98.3		70-130 %REC		1	6/6/2010 02:25 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/2/2010 03:46 AM
Toluene	ND		0.0010 mg/Kg		1	6/2/2010 03:46 AM
Ethylbenzene	ND		0.0010 mg/Kg		1	6/2/2010 03:46 AM
Xylenes, Total	ND		0.0030 mg/Kg		1	6/2/2010 03:46 AM
Surr: 4-Bromofluorobenzene	85.0		75-131 %REC		1	6/2/2010 03:46 AM
Surr: Trifluorotoluene	98.8		73-130 %REC		1	6/2/2010 03:46 AM
ANIONS						
Chloride	30.6		E300	4.99 mg/Kg	1	Prep Date: 6/4/2010 Analyst: IGF 6/7/2010 09:04 PM
Surr: Selenate (surr)	98.2		85-115 %REC		1	6/7/2010 09:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43339** Instrument ID **FID-8** Method: **SW8015M**

MBLK	Sample ID: FBLKS1-100601-43339				Units: mg/Kg		Analysis Date: 6/12/2010 03:14 PM			
Client ID:	Run ID: FID-8_100601A				SeqNo: 1993872		Prep Date: 6/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.917	0.10	3.33	0	87.6	70-130	0			

LCS	Sample ID: FLCSS1-100601-43339				Units: mg/Kg		Analysis Date: 6/12/2010 03:33 PM			
Client ID:	Run ID: FID-8_100601A				SeqNo: 1993874		Prep Date: 6/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	31.19	1.7	33.33	0	93.6	70-130	0			
TPH (Motor Oil Range)	35.67	3.4	33.33	0	107	70-130	0			
Surr: 2-Fluorobiphenyl	3.86	0.10	3.33	0	116	70-130	0			

MS	Sample ID: 1005946-02BMS				Units: mg/Kg		Analysis Date: 6/7/2010 01:10 PM			
Client ID: MW-16 20'	Run ID: FID-8_100601A				SeqNo: 1993678		Prep Date: 6/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	28.59	1.7	33.3	0.2454	85.1	70-130	0			
TPH (Motor Oil Range)	29.15	3.4	33.3	0.2771	86.7	70-130	0			
Surr: 2-Fluorobiphenyl	4.17	0.10	3.327	0	125	70-130	0			

MSD	Sample ID: 1005946-02BMSD				Units: mg/Kg		Analysis Date: 6/7/2010 01:29 PM			
Client ID: MW-16 20'	Run ID: FID-8_100601A				SeqNo: 1993679		Prep Date: 6/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	31.12	1.7	33.25	0.2454	92.8	70-130	28.59	8.48	30	
TPH (Motor Oil Range)	31.97	3.4	33.25	0.2771	95.3	70-130	29.15	9.23	30	
Surr: 2-Fluorobiphenyl	4.167	0.10	3.322	0	125	70-130	4.17	0.0628	30	

The following samples were analyzed in this batch:

1005946-01B	1005946-02B	1005946-03B
1005946-04B	1005946-05B	1005946-06B
1005946-07B	1005946-08B	1005946-09B
1005946-10B	1005946-11B	1005946-12B
1005946-13B	1005946-14B	1005946-15B
1005946-16B	1005946-17B	1005946-18B
1005946-19B	1005946-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43342 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS2-100601-43342 Units: mg/Kg Analysis Date: 6/7/2010 11:14 AM

Client ID: Run ID: FID-7_100601C SeqNo: 1993595 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	4.191	0.10	3.33	0	126	70-130	0			

LCS Sample ID: FLCSS2100601-43342 Units: mg/Kg Analysis Date: 6/7/2010 11:33 AM

Client ID: Run ID: FID-7_100601C SeqNo: 1993615 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.64	1.7	33.33	0	82.9	70-130	0			
TPH (Motor Oil Range)	30.12	3.4	33.33	0	90.4	70-130	0			
Surr: 2-Fluorobiphenyl	4.289	0.10	3.33	0	129	70-130	0			

MS Sample ID: 1005946-22BMS Units: mg/Kg Analysis Date: 6/7/2010 12:31 PM

Client ID: MW-23 10' Run ID: FID-7_100601C SeqNo: 1993599 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.69	1.7	33.25	4.152	104	70-130	0			
TPH (Motor Oil Range)	78.04	3.4	33.25	54.34	71.3	70-130	0			E
Surr: 2-Fluorobiphenyl	4.201	0.10	3.322	0	126	70-130	0			

MSD Sample ID: 1005946-22BMSD Units: mg/Kg Analysis Date: 6/7/2010 12:51 PM

Client ID: MW-23 10' Run ID: FID-7_100601C SeqNo: 1993600 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.1	1.7	33.31	4.152	89.9	70-130	38.69	12.6	30	
TPH (Motor Oil Range)	87.53	3.4	33.31	54.34	99.6	70-130	78.04	11.5	30	E
Surr: 2-Fluorobiphenyl	4.089	0.10	3.328	0	123	70-130	4.201	2.71	30	

The following samples were analyzed in this batch:

1005946-21B	1005946-22B	1005946-23B
1005946-24B	1005946-25B	1005946-26B
1005946-27B	1005946-28B	1005946-29B
1005946-30B	1005946-31B	1005946-32B
1005946-33B	1005946-34B	1005946-35B
1005946-36B	1005946-37B	1005946-38B
1005946-39B	1005946-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43343 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100601-43343 Units: mg/Kg Analysis Date: 6/12/2010 02:55 PM

Client ID: Run ID: FID-7_100601B SeqNo: 1993581 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.679	0.10	3.33	0	80.5	70-130	0			

LCS Sample ID: FLCSS3-100601-43343 Units: mg/Kg Analysis Date: 6/12/2010 03:14 PM

Client ID: Run ID: FID-7_100601B SeqNo: 1993583 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.16	1.7	33.33	0	81.5	70-130	0			
TPH (Motor Oil Range)	31.68	3.4	33.33	0	95.1	70-130	0			
Surr: 2-Fluorobiphenyl	3.084	0.10	3.33	0	92.6	70-130	0			

MS Sample ID: 1005946-41BMS Units: mg/Kg Analysis Date: 6/2/2010 12:50 PM

Client ID: MW-24 90' Run ID: FID-7_100601B SeqNo: 1992225 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	31.8	1.7	33.23	0	95.7	70-130	0			
TPH (Motor Oil Range)	41.9	3.4	33.23	0.6938	124	70-130	0			
Surr: 2-Fluorobiphenyl	4.13	0.10	3.32	0	124	70-130	0			

MSD Sample ID: 1005946-41BMSD Units: mg/Kg Analysis Date: 6/2/2010 12:30 PM

Client ID: MW-24 90' Run ID: FID-7_100601B SeqNo: 1992224 Prep Date: 6/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.7	1.7	33.27	0	89.3	70-130	31.8	6.81	30	
TPH (Motor Oil Range)	42.42	3.4	33.27	0.6938	125	70-130	41.9	1.24	30	
Surr: 2-Fluorobiphenyl	4.107	0.10	3.324	0	124	70-130	4.13	0.563	30	

The following samples were analyzed in this batch:

1005946-41B	1005946-42B	1005946-43B
1005946-44B	1005946-47B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91770 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW2-052810-R91770 Units: µg/L Analysis Date: 5/28/2010 11:44 PM

Client ID: Run ID: BTEX1_100528B SeqNo: 1977804 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.37	1.0	30	0	97.9	77-129	0			
Surr: Trifluorotoluene	28.97	1.0	30	0	96.6	75-130	0			

MBLK Sample ID: BBLKW2-052810-R91770 Units: µg/L Analysis Date: 5/29/2010 12:01 AM

Client ID: Run ID: BTEX1_100528B SeqNo: 1977805 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.4	1.0	30	0	98	77-129	0			
Surr: Trifluorotoluene	29.5	1.0	30	0	98.3	75-130	0			

LCS Sample ID: BLCSW2-052810-R91770 Units: µg/L Analysis Date: 5/28/2010 11:27 PM

Client ID: Run ID: BTEX1_100528B SeqNo: 1977803 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.11	1.0	20	0	95.6	77-126	0			
Toluene	18.8	1.0	20	0	94	80-124	0			
Ethylbenzene	18.8	1.0	20	0	94	76-125	0			
Xylenes, Total	56.31	3.0	60	0	93.8	79-124	0			
Surr: 4-Bromofluorobenzene	30.59	1.0	30	0	102	77-129	0			
Surr: Trifluorotoluene	31.03	1.0	30	0	103	75-130	0			

MS Sample ID: 1005877-12AMS Units: µg/L Analysis Date: 5/29/2010 01:42 AM

Client ID: Run ID: BTEX1_100528B SeqNo: 1977810 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.35	1.0	20	0	117	77-126	0			
Toluene	22.01	1.0	20	0	110	80-124	0			
Ethylbenzene	21.18	1.0	20	0	106	76-125	0			
Xylenes, Total	63.18	3.0	60	0	105	79-124	0			
Surr: 4-Bromofluorobenzene	30.59	1.0	30	0	102	77-129	0			
Surr: Trifluorotoluene	32.5	1.0	30	0	108	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91770** Instrument ID **BTEX1** Method: **SW8021B**

MSD	Sample ID: 1005877-12AMSD				Units: µg/L			Analysis Date: 5/29/2010 01:59 AM		
Client ID:	Run ID: BTEX1_100528B				SeqNo: 1977811		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.79	1.0	20	0	119	77-126	23.35	1.85	20	
Toluene	22.33	1.0	20	0	112	80-124	22.01	1.46	20	
Ethylbenzene	21.43	1.0	20	0	107	76-125	21.18	1.14	20	
Xylenes, Total	64.03	3.0	60	0	107	79-124	63.18	1.33	20	
Surr: 4-Bromofluorobenzene	30.23	1.0	30	0	101	77-129	30.59	1.19	20	
Surr: Trifluorotoluene	32.22	1.0	30	0	107	75-130	32.5	0.857	20	

The following samples were analyzed in this batch:

1005946-45A	1005946-46A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R91894** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKS1-060110-R91894** Units: **µg/Kg** Analysis Date: **6/1/2010 12:09 PM**

Client ID: Run ID: **BTEX3_100601A** SeqNo: **1980785** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	26.5	1.0	30	0	88.3	75-131	0			
Surr: Trifluorotoluene	30.85	1.0	30	0	103	73-130	0			

LCS Sample ID: **BLCSS1-060110-R91894** Units: **µg/Kg** Analysis Date: **6/1/2010 11:31 AM**

Client ID: Run ID: **BTEX3_100601A** SeqNo: **1980782** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.05	1.0	20	0	100	74-129	0			
Toluene	19.97	1.0	20	0	99.8	75-128	0			
Ethylbenzene	20.77	1.0	20	0	104	73-127	0			
Xylenes, Total	61.23	3.0	60	0	102	74-127	0			
Surr: 4-Bromofluorobenzene	26.79	1.0	30	0	89.3	75-131	0			
Surr: Trifluorotoluene	30.51	1.0	30	0	102	73-130	0			

MS Sample ID: **1005956-04AMS** Units: **µg/Kg** Analysis Date: **6/1/2010 09:06 PM**

Client ID: Run ID: **BTEX3_100601A** SeqNo: **1980798** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.84	1.0	20	0	99.2	74-129	0			
Toluene	19.71	1.0	20	0	98.6	75-128	0			
Ethylbenzene	20.44	1.0	20	0	102	73-127	0			
Xylenes, Total	60.36	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	26.93	1.0	30	0	89.8	75-131	0			
Surr: Trifluorotoluene	30.78	1.0	30	0	103	73-130	0			

MSD Sample ID: **1005956-04AMSD** Units: **µg/Kg** Analysis Date: **6/1/2010 09:26 PM**

Client ID: Run ID: **BTEX3_100601A** SeqNo: **1980800** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.97	1.0	20	0	99.9	74-129	19.84	0.69	30	
Toluene	19.81	1.0	20	0	99.1	75-128	19.71	0.491	30	
Ethylbenzene	20.52	1.0	20	0	103	73-127	20.44	0.423	30	
Xylenes, Total	60.68	3.0	60	0	101	74-127	60.36	0.522	30	
Surr: 4-Bromofluorobenzene	26.92	1.0	30	0	89.7	75-131	26.93	0.0611	30	
Surr: Trifluorotoluene	30.85	1.0	30	0	103	73-130	30.78	0.219	30	

The following samples were analyzed in this batch: 1005946-01A 1005946-47A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92042** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-060510-R92042** Units: **mg/Kg** Analysis Date: **6/5/2010 06:54 PM**

Client ID: Run ID: **FID-9_100605B** SeqNo: **1984284** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09717	0.0050	0.1	0	97.2	70-130	0			

LCS Sample ID: **GLCSS-060510-R92042** Units: **mg/Kg** Analysis Date: **6/5/2010 06:31 PM**

Client ID: Run ID: **FID-9_100605B** SeqNo: **1984281** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.053	0.050	1	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	0.07974	0.0050	0.1	0	79.7	70-130	0			

MS Sample ID: **1005831-16BMS** Units: **mg/Kg** Analysis Date: **6/5/2010 07:50 PM**

Client ID: Run ID: **FID-9_100605B** SeqNo: **1984291** Prep Date: DF: **0.796**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8213	0.040	0.796	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	0.07837	0.0040	0.0796	0	98.5	70-130	0			

MSD Sample ID: **1005831-16BMSD** Units: **mg/Kg** Analysis Date: **6/5/2010 08:13 PM**

Client ID: Run ID: **FID-9_100605B** SeqNo: **1984295** Prep Date: DF: **0.864**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8016	0.043	0.864	0	92.8	70-130	0.8213	2.43	30	
Surr: 4-Bromofluorobenzene	0.08919	0.0043	0.0864	0	103	70-130	0.07837	12.9	30	

The following samples were analyzed in this batch:

1005946-01B	1005946-02B	1005946-03B
1005946-04B	1005946-05B	1005946-06B
1005946-47B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92045 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-060610-R92045 Units: mg/Kg Analysis Date: 6/6/2010 05:55 AM

Client ID: Run ID: FID-9_100605C SeqNo: 1984404 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09984	0.0050	0.1	0	99.8	70-130	0			

LCS Sample ID: GLCSS-060610-R92045 Units: mg/Kg Analysis Date: 6/6/2010 05:32 AM

Client ID: Run ID: FID-9_100605C SeqNo: 1984403 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.094	0.050	1	0	109	70-130	0			
Surr: 4-Bromofluorobenzene	0.1032	0.0050	0.1	0	103	70-130	0			

MS Sample ID: 1005946-07BMS Units: mg/Kg Analysis Date: 6/6/2010 06:42 AM

Client ID: MW-16 70' Run ID: FID-9_100605C SeqNo: 1984406 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.102	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	0.1034	0.0050	0.1	0	103	70-130	0			

MSD Sample ID: 1005946-07BMSD Units: mg/Kg Analysis Date: 6/6/2010 07:05 AM

Client ID: MW-16 70' Run ID: FID-9_100605C SeqNo: 1984407 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.106	0.050	1	0	111	70-130	1.102	0.305	30	
Surr: 4-Bromofluorobenzene	0.1022	0.0050	0.1	0	102	70-130	0.1034	1.15	30	

The following samples were analyzed in this batch:

1005946-07B	1005946-08B	1005946-09B
1005946-10B	1005946-11B	1005946-12B
1005946-13B	1005946-14B	1005946-15B
1005946-16B	1005946-17B	1005946-18B
1005946-19B	1005946-20B	1005946-21B
1005946-22B	1005946-23B	1005946-24B
1005946-25B	1005946-26B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92079 Instrument ID BTEX3 Method: SW8021B

MBLK		Sample ID: BBLKS1-060510-R92079				Units: µg/Kg		Analysis Date: 6/5/2010 12:06 PM		
Client ID:		Run ID: BTEX3_100605A				SeqNo: 1985132		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.96	1.0	30	0	103	75-131	0			
Surr: Trifluorotoluene	29.91	1.0	30	0	99.7	73-130	0			

LCS		Sample ID: BLCSS1-060510-R92079				Units: µg/Kg		Analysis Date: 6/5/2010 11:08 AM		
Client ID:		Run ID: BTEX3_100605A				SeqNo: 1985131		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.79	1.0	20	0	99	74-129	0			
Toluene	19.86	1.0	20	0	99.3	75-128	0			
Ethylbenzene	20.12	1.0	20	0	101	73-127	0			
Xylenes, Total	61.13	3.0	60	0	102	74-127	0			
Surr: 4-Bromofluorobenzene	32.29	1.0	30	0	108	75-131	0			
Surr: Trifluorotoluene	30.31	1.0	30	0	101	73-130	0			

MS		Sample ID: 1005946-05AMS				Units: µg/Kg		Analysis Date: 6/5/2010 01:54 PM		
Client ID: MW-16 50'		Run ID: BTEX3_100605A				SeqNo: 1985137		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.51	1.0	20	0	103	74-129	0			
Toluene	20.2	1.0	20	0	101	75-128	0			
Ethylbenzene	20.47	1.0	20	0	102	73-127	0			
Xylenes, Total	62.69	3.0	60	0	104	74-127	0			
Surr: 4-Bromofluorobenzene	32.82	1.0	30	0	109	75-131	0			
Surr: Trifluorotoluene	31.43	1.0	30	0	105	73-130	0			

MSD		Sample ID: 1005946-05AMSD				Units: µg/Kg		Analysis Date: 6/5/2010 02:14 PM		
Client ID: MW-16 50'		Run ID: BTEX3_100605A				SeqNo: 1985138		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.89	1.0	20	0	104	74-129	20.51	1.81	30	
Toluene	20.92	1.0	20	0	105	75-128	20.2	3.52	30	
Ethylbenzene	21.35	1.0	20	0	107	73-127	20.47	4.22	30	
Xylenes, Total	64.83	3.0	60	0	108	74-127	62.69	3.35	30	
Surr: 4-Bromofluorobenzene	33.39	1.0	30	0	111	75-131	32.82	1.71	30	
Surr: Trifluorotoluene	30.28	1.0	30	0	101	73-130	31.43	3.73	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92079

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

1005946-02A	1005946-03A	1005946-04A
1005946-05A	1005946-06A	1005946-07A
1005946-08A	1005946-09A	1005946-10A
1005946-11A	1005946-12A	1005946-13A
1005946-14A	1005946-15A	1005946-16A
1005946-17A	1005946-18A	1005946-19A
1005946-20A	1005946-21A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92083** Instrument ID **BTEX3** Method: **SW8021B**

MBLK		Sample ID: BBLKS2-060510-R92083				Units: µg/Kg		Analysis Date: 6/5/2010 09:43 PM		
Client ID:		Run ID: BTEX3_100605B				SeqNo: 1985223		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	31.47	1.0	30	0	105	75-131	0			
Surr: Trifluorotoluene	29.53	1.0	30	0	98.4	73-130	0			

LCS		Sample ID: BLCSS2-060510-R92083				Units: µg/Kg		Analysis Date: 6/5/2010 09:03 PM		
Client ID:		Run ID: BTEX3_100605B				SeqNo: 1985216		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.14	1.0	20	0	101	74-129	0			
Toluene	20.36	1.0	20	0	102	75-128	0			
Ethylbenzene	20.37	1.0	20	0	102	73-127	0			
Xylenes, Total	61.66	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	32.18	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	30.35	1.0	30	0	101	73-130	0			

LCSD		Sample ID: BLCSS2-060510-R92083				Units: µg/Kg		Analysis Date: 6/6/2010 04:03 AM		
Client ID:		Run ID: BTEX3_100605B				SeqNo: 1985472		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.7	1.0	20	0	98.5	74-129	20.14	2.21	30	
Toluene	20.02	1.0	20	0	100	75-128	20.36	1.7	30	
Ethylbenzene	19.88	1.0	20	0	99.4	73-127	20.37	2.4	30	
Xylenes, Total	60.2	3.0	60	0	100	74-127	61.66	2.4	30	
Surr: 4-Bromofluorobenzene	31.92	1.0	30	0	106	75-131	32.18	0.823	30	
Surr: Trifluorotoluene	30.19	1.0	30	0	101	73-130	30.35	0.533	30	

MS		Sample ID: 1005946-25AMS				Units: µg/Kg		Analysis Date: 6/5/2010 11:23 PM		
Client ID: MW-23 40'		Run ID: BTEX3_100605B				SeqNo: 1985232		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.86	1.0	20	0	99.3	74-129	0			
Toluene	19.96	1.0	20	0	99.8	75-128	0			
Ethylbenzene	20.06	1.0	20	0	100	73-127	0			
Xylenes, Total	60.32	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	31.91	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	30.21	1.0	30	0	101	73-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92083** Instrument ID **BTEX3** Method: **SW8021B**

MSI Sample ID: **1005946-25AMSD** Units: **µg/Kg** Analysis Date: **6/5/2010 11:43 PM**
Client ID: **MW-23 40'** Run ID: **BTEX3_100605B** SeqNo: **1985236** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.71	1.0	20	0	98.5	74-129	19.86	0.775	30	
Toluene	20.27	1.0	20	0	101	75-128	19.96	1.54	30	
Ethylbenzene	20.25	1.0	20	0	101	73-127	20.06	0.927	30	
Xylenes, Total	61.01	3.0	60	0	102	74-127	60.32	1.14	30	
Surr: 4-Bromofluorobenzene	32.33	1.0	30	0	108	75-131	31.91	1.32	30	
Surr: Trifluorotoluene	30.62	1.0	30	0	102	73-130	30.21	1.35	30	

The following samples were analyzed in this batch:

1005946-22A	1005946-23A	1005946-24A
1005946-25A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92085** Instrument ID **BTEX3** Method: **SW8021B**

MBLK		Sample ID: BBLKS1-060610-R92085				Units: µg/Kg		Analysis Date: 6/6/2010 09:49 AM		
Client ID:		Run ID: BTEX3_100606A				SeqNo: 1985298		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	32.15	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	29.57	1.0	30	0	98.6	73-130	0			

LCS		Sample ID: BLCSS1-060610-R92085				Units: µg/Kg		Analysis Date: 6/6/2010 08:04 AM		
Client ID:		Run ID: BTEX3_100606A				SeqNo: 1985297		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.65	1.0	20	0	98.2	74-129	0			
Toluene	20.23	1.0	20	0	101	75-128	0			
Ethylbenzene	19.77	1.0	20	0	98.8	73-127	0			
Xylenes, Total	59.56	3.0	60	0	99.3	74-127	0			
Surr: 4-Bromofluorobenzene	31.95	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	30.89	1.0	30	0	103	73-130	0			

MS		Sample ID: 1005946-26AMS				Units: µg/Kg		Analysis Date: 6/6/2010 10:29 AM		
Client ID: MW-23 50'		Run ID: BTEX3_100606A				SeqNo: 1985300		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.28	1.0	20	0	101	74-129	0			
Toluene	20.65	1.0	20	0	103	75-128	0			
Ethylbenzene	20.44	1.0	20	0	102	73-127	0			
Xylenes, Total	62.29	3.0	60	0	104	74-127	0			
Surr: 4-Bromofluorobenzene	32.46	1.0	30	0	108	75-131	0			
Surr: Trifluorotoluene	31.02	1.0	30	0	103	73-130	0			

MSD		Sample ID: 1005946-26AMSD				Units: µg/Kg		Analysis Date: 6/6/2010 10:49 AM		
Client ID: MW-23 50'		Run ID: BTEX3_100606A				SeqNo: 1985302		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.99	1.0	20	0	100	74-129	20.28	1.42	30	
Toluene	20.46	1.0	20	0	102	75-128	20.65	0.941	30	
Ethylbenzene	20.41	1.0	20	0	102	73-127	20.44	0.119	30	
Xylenes, Total	62.18	3.0	60	0	104	74-127	62.29	0.179	30	
Surr: 4-Bromofluorobenzene	32.91	1.0	30	0	110	75-131	32.46	1.37	30	
Surr: Trifluorotoluene	31.32	1.0	30	0	104	73-130	31.02	0.941	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92085**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1005946-26A	1005946-27A	1005946-28A
1005946-29A	1005946-30A	1005946-31A
1005946-32A	1005946-33A	1005946-34A
1005946-35A	1005946-36A	1005946-37A
1005946-38A	1005946-39A	1005946-40A
1005946-41A	1005946-42A	1005946-43A
1005946-44A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92146** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-060710-R92146** Units: **mg/Kg** Analysis Date: **6/7/2010 10:24 AM**

Client ID: Run ID: **FID-9_100607A** SeqNo: **1986805** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09675	0.0050	0.1	0	96.7	70-130	0			

LCS Sample ID: **GLCSS-060710-R92146** Units: **mg/Kg** Analysis Date: **6/7/2010 10:01 AM**

Client ID: Run ID: **FID-9_100607A** SeqNo: **1986804** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.075	0.050	1	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	0.1045	0.0050	0.1	0	105	70-130	0			

MS Sample ID: **1005946-32BMS** Units: **mg/Kg** Analysis Date: **6/7/2010 01:17 PM**

Client ID: **MW-23 100'** Run ID: **FID-9_100607A** SeqNo: **1986812** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.026	0.050	1	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	0.1042	0.0050	0.1	0	104	70-130	0			

MSD Sample ID: **1005946-32BMSD** Units: **mg/Kg** Analysis Date: **6/7/2010 01:41 PM**

Client ID: **MW-23 100'** Run ID: **FID-9_100607A** SeqNo: **1986813** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.065	0.050	1	0	106	70-130	1.026	3.69	30	
Surr: 4-Bromofluorobenzene	0.1032	0.0050	0.1	0	103	70-130	0.1042	0.984	30	

The following samples were analyzed in this batch:

1005946-27B	1005946-28B	1005946-29B
1005946-30B	1005946-31B	1005946-32B
1005946-33B	1005946-34B	1005946-35B
1005946-36B	1005946-37B	1005946-38B
1005946-39B	1005946-40B	1005946-41B
1005946-42B	1005946-43B	1005946-44B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92157 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-060810-R92157 Units: mg/Kg Analysis Date: 6/8/2010 10:07 PM

Client ID: Run ID: FID-9_100608A SeqNo: 1987117 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08413	0.0050	0.1	0	84.1	70-130	0			

LCS Sample ID: GLCSS-060810-R92157 Units: mg/Kg Analysis Date: 6/8/2010 09:42 PM

Client ID: Run ID: FID-9_100608A SeqNo: 1987116 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.018	0.050	1	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	0.07592	0.0050	0.1	0	75.9	70-130	0			

LCSD Sample ID: GLCSDS-060810-R92157 Units: mg/Kg Analysis Date: 6/9/2010 12:04 AM

Client ID: Run ID: FID-9_100608A SeqNo: 1987123 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.105	0.050	1	0	110	70-130	1.018	8.23	30	
Surr: 4-Bromofluorobenzene	0.0855	0.0050	0.1	0	85.5	70-130	0.07592	11.9	30	

MS Sample ID: 1005946-44BMS Units: mg/Kg Analysis Date: 6/8/2010 10:54 PM

Client ID: MW-24 105' Run ID: FID-9_100608A SeqNo: 1987119 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.018	0.050	1	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	0.08655	0.0050	0.1	0	86.6	70-130	0			

MSD Sample ID: 1005946-44BMSD Units: mg/Kg Analysis Date: 6/8/2010 11:17 PM

Client ID: MW-24 105' Run ID: FID-9_100608A SeqNo: 1987120 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.022	0.050	1	0	102	70-130	1.018	0.342	30	
Surr: 4-Bromofluorobenzene	0.08581	0.0050	0.1	0	85.8	70-130	0.08655	0.867	30	

The following samples were analyzed in this batch:

1005946-44B

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92172** Instrument ID **BTEX3** Method: **SW8021B**

MBLK		Sample ID: BBLKS1-060710-R92172				Units: µg/Kg		Analysis Date: 6/7/2010 11:13 AM		
Client ID:		Run ID: BTEX3_100607A				SeqNo: 1987628		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.5	1.0	30	0	102	75-131	0			
Surr: Trifluorotoluene	30.66	1.0	30	0	102	73-130	0			

LCS		Sample ID: BLCSS1-060710-R92172				Units: µg/Kg		Analysis Date: 6/7/2010 10:30 AM		
Client ID:		Run ID: BTEX3_100607A				SeqNo: 1987627		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.32	1.0	20	0	96.6	74-129	0			
Toluene	21.52	1.0	20	0	108	75-128	0			
Ethylbenzene	19.8	1.0	20	0	99	73-127	0			
Xylenes, Total	60.93	3.0	60	0	102	74-127	0			
Surr: 4-Bromofluorobenzene	29.77	1.0	30	0	99.2	75-131	0			
Surr: Trifluorotoluene	30.07	1.0	30	0	100	73-130	0			

MS		Sample ID: 1005900-05AMS				Units: µg/Kg		Analysis Date: 6/7/2010 02:16 PM		
Client ID:		Run ID: BTEX3_100607A				SeqNo: 1987635		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.23	1.0	20	0	111	74-129	0			
Toluene	23.8	1.0	20	0.6028	116	75-128	0			
Ethylbenzene	21.97	1.0	20	0	110	73-127	0			
Xylenes, Total	69.24	3.0	60	0	115	74-127	0			
Surr: 4-Bromofluorobenzene	34.26	1.0	30	0	114	75-131	0			
Surr: Trifluorotoluene	33.85	1.0	30	0	113	73-130	0			

MSD		Sample ID: 1005900-05AMSD				Units: µg/Kg		Analysis Date: 6/7/2010 02:36 PM		
Client ID:		Run ID: BTEX3_100607A				SeqNo: 1987636		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.55	1.0	20	0	103	74-129	22.23	7.81	30	
Toluene	20.09	1.0	20	0.6028	97.4	75-128	23.8	16.9	30	
Ethylbenzene	20.84	1.0	20	0	104	73-127	21.97	5.3	30	
Xylenes, Total	64.12	3.0	60	0	107	74-127	69.24	7.67	30	
Surr: 4-Bromofluorobenzene	32.45	1.0	30	0	108	75-131	34.26	5.44	30	
Surr: Trifluorotoluene	31.91	1.0	30	0	106	73-130	33.85	5.9	30	

The following samples were analyzed in this batch: 1005946-25A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43441 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-060410-43441 Units: mg/Kg Analysis Date: 6/4/2010 10:33 PM

Client ID: Run ID: ICS2100_100604C SeqNo: 1983974 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	47.95	1.0	50	0	95.9	85-115	0			

LCS Sample ID: WLCSS1-060410-43441 Units: mg/Kg Analysis Date: 6/4/2010 10:48 PM

Client ID: Run ID: ICS2100_100604C SeqNo: 1983975 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	192.9	5.0	200	0	96.5	90-110	0			
Surr: Selenate (surr)	48.01	1.0	50	0	96	85-115	0			

MS Sample ID: 1005946-01BMS Units: mg/Kg Analysis Date: 6/4/2010 11:17 PM

Client ID: MW-16 10' Run ID: ICS2100_100604C SeqNo: 1983977 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	134.2	5.0	100	38.99	95.2	75-125	0			
Surr: Selenate (surr)	49.38	1.0	50	0	98.8	80-120	0			

MS Sample ID: 1005946-20BMS Units: mg/Kg Analysis Date: 6/5/2010 05:21 AM

Client ID: MW-22 90' Run ID: ICS2100_100604C SeqNo: 1984002 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.3	5.0	99.6	13.19	94.4	75-125	0			
Surr: Selenate (surr)	48.36	1.0	49.8	0	97.1	80-120	0			

MSD Sample ID: 1005946-01BMSD Units: mg/Kg Analysis Date: 6/4/2010 11:32 PM

Client ID: MW-16 10' Run ID: ICS2100_100604C SeqNo: 1983978 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	131.6	5.0	100	38.99	92.6	75-125	134.2	2	20	
Surr: Selenate (surr)	48.21	1.0	50	0	96.4	80-120	49.38	2.4	20	

MSD Sample ID: 1005946-20BMSD Units: mg/Kg Analysis Date: 6/5/2010 05:35 AM

Client ID: MW-22 90' Run ID: ICS2100_100604C SeqNo: 1984003 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	109.6	5.0	99.6	13.19	96.8	75-125	107.3	2.17	20	
Surr: Selenate (surr)	49.87	1.0	49.8	0	100	80-120	48.36	3.08	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43441 Instrument ID ICS2100 Method: E300

The following samples were analyzed in this batch:

1005946-01B	1005946-02B	1005946-03B
1005946-04B	1005946-05B	1005946-06B
1005946-07B	1005946-08B	1005946-09B
1005946-10B	1005946-11B	1005946-12B
1005946-13B	1005946-14B	1005946-15B
1005946-16B	1005946-17B	1005946-18B
1005946-19B	1005946-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43442 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS2-060410-43442 Units: mg/Kg Analysis Date: 6/6/2010 07:36 AM

Client ID: Run ID: ICS2100_100605D SeqNo: 1984240 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	48.9	1.0	50	0	97.8	85-115	0			

LCS Sample ID: WLCSS2-060410-43442 Units: mg/Kg Analysis Date: 6/6/2010 07:50 AM

Client ID: Run ID: ICS2100_100605D SeqNo: 1984241 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	193.2	5.0	200	0	96.6	90-110	0			
Surr: Selenate (surr)	48.03	1.0	50	0	96.1	85-115	0			

MS Sample ID: 1005946-40BMS Units: mg/Kg Analysis Date: 6/6/2010 02:23 PM

Client ID: MW-24 80' Run ID: ICS2100_100605D SeqNo: 1984268 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	101.4	5.0	100	5.19	96.2	75-125	0			
Surr: Selenate (surr)	50.15	1.0	50	0	100	80-120	0			

MS Sample ID: 1005946-21BMS Units: mg/Kg Analysis Date: 6/6/2010 03:50 PM

Client ID: MW-22 95' Run ID: ICS2100_100605D SeqNo: 1984272 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106.4	5.0	100	9.76	96.7	75-125	0			
Surr: Selenate (surr)	50.64	1.0	50	0	101	80-120	0			

MSD Sample ID: 1005946-40BMSD Units: mg/Kg Analysis Date: 6/6/2010 02:38 PM

Client ID: MW-24 80' Run ID: ICS2100_100605D SeqNo: 1984269 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	101	5.0	100	5.19	95.9	75-125	101.4	0.385	20	
Surr: Selenate (surr)	49.86	1.0	50	0	99.7	80-120	50.15	0.58	20	

MSD Sample ID: 1005946-21BMSD Units: mg/Kg Analysis Date: 6/6/2010 04:05 PM

Client ID: MW-22 95' Run ID: ICS2100_100605D SeqNo: 1984274 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	108.5	5.0	100	9.76	98.7	75-125	106.4	1.91	20	
Surr: Selenate (surr)	51.59	1.0	50	0	103	80-120	50.64	1.86	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1005946
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43442** Instrument ID **ICS2100** Method: **E300**

The following samples were analyzed in this batch:

1005946-21B	1005946-22B	1005946-23B
1005946-24B	1005946-25B	1005946-26B
1005946-27B	1005946-28B	1005946-29B
1005946-30B	1005946-31B	1005946-32B
1005946-33B	1005946-34B	1005946-35B
1005946-36B	1005946-37B	1005946-38B
1005946-39B	1005946-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1005946
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43443 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-060410-43443 Units: mg/Kg Analysis Date: 6/7/2010 07:08 PM

Client ID: Run ID: ICS2100_100607A SeqNo: 1985716 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	48.05	1.0	50	0	96.1	85-115	0			

LCS Sample ID: WLCSS3-060410-43443 Units: mg/Kg Analysis Date: 6/7/2010 07:22 PM

Client ID: Run ID: ICS2100_100607A SeqNo: 1985717 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	194	5.0	200	0	97	90-110	0			
Surr: Selenate (surr)	48.5	1.0	50	0	97	85-115	0			

MS Sample ID: 1005946-41BMS Units: mg/Kg Analysis Date: 6/7/2010 07:51 PM

Client ID: MW-24 90' Run ID: ICS2100_100607A SeqNo: 1985719 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.91	5.0	100	4.52	95.4	75-125	0			
Surr: Selenate (surr)	49.26	1.0	50	0	98.5	80-120	0			

MSD Sample ID: 1005946-41BMSD Units: mg/Kg Analysis Date: 6/7/2010 08:06 PM

Client ID: MW-24 90' Run ID: ICS2100_100607A SeqNo: 1985720 Prep Date: 6/4/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	96.66	5.0	100	4.52	92.1	75-125	99.91	3.31	20	
Surr: Selenate (surr)	47.18	1.0	50	0	94.4	80-120	49.26	4.31	20	

The following samples were analyzed in this batch:

1005946-41B	1005946-42B	1005946-43B
1005946-44B	1005946-47B	

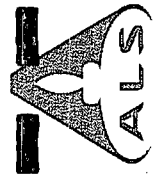
Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1005946

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



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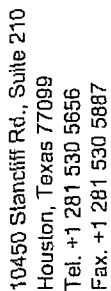
Customer Information		Project Information		ALS Project Manager		ALS Work Order #	
Purchase Order	Project Name	Lea Refinery New Wells		A		BTEX (0021)	
Work Order	Project Number	NAV-10-003		B		GRO (0015M)	
Company Name	Bill To Company	Navajo Refining Company		C		DRO (0015M)	
Send Report To	Invoice Attn	Darrell Moore		D		ORO (0015M)	
Address	Address	P.O. Box 159		E		Anions (300) CI	
City/State/Zip	City/State/Zip	Artesia, NM 88211		F			
Phone	Phone	(505) 748-3311		G			
Fax	Fax	(505) 746-5421		H			
e-Mail Address	e-Mail Address	dmoore@SESI-NM.com		I			
				J			

No.	Sample Description	Date	Time	Matrix	Pres	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-16 10'	5/24/10	0950	50:1	8	2	X	X	X	X	X						
2	20'		1005														
3	30'		1015														
4	40'		1025														
5	50'		1040														
6	60'		1050														
7	70'		1100														
8	80'		1120														
9	90'		1130														
10	MW-16 100'	5/24/10	1140	50:1	8	2	X	X	X	X	X						

Sample(s) Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Results Due Date	
6 Bores At Bottom		Fed Ex		☒ Std 10 Wk Days ☐ Other Wk Days		☐ TRRP Check List	
Relinquished by:	Date: 5/27/10	Time: 1630	Received by (Laboratory):	Time: 5:20 PM		Notes: 10 Day TAT. Co Dave Boyer	
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Time:		Cooler ID: ☐ Cooler Temp: ☐ Level II Std QC ☐ Level III Std QC/RAW Data ☐ Level IV SIM/SLP/CLP ☐ Other	
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O8 6-NaHSO4 7-Other		Time: 8:40		Time: 9:5035			

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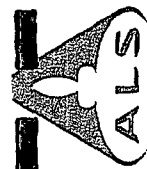
Page 2 of 5

Customer Information				Project Information				ALS Project Manager:				Parameter/Method Request for Analysis																											
Purchase Order	Work Order	Company Name	Send Report To	Project Name	Project Number	Bill To Company	Invoice Attn	Lea Refinery New Wells	NAV-10-003	Navajo Refining Company	Darrell Moore	P.O. Box 159	Artesia, NM 88211	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
		Navajo Refining Company	Darrell Moore	5/24/12	1150	5/24/12	1150	50.1	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
				5/25/12	1030	5/25/12	1030																																
				20'	1040																																		
				30'	1250																																		
				40'	1100																																		
				50'	1110																																		
				60'	1120																																		
				70'	1130																																		
				80'	1140																																		
				90'	1150	5/25/12	1150	Seil	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sample(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:																											
D.C. Boyer				FedEx				10 WK Days				10 Day TAT																											
Relinquished by:				Received by:				Notes:				QC Package: (Check One Box Below)																											
Relinquished by:				Received by:				Level II Std QC				Level III Std QC/RAW Data																											
Relinquished by:				Received by:				Level IV SWM/CLP				Other																											
Relinquished by:				Received by:				Level II Std QC				Level III Std QC/RAW Data																											
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Relinquished by:				Received by:				Level IV SWM/CLP				Other																											
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Relinquished by:				Received by:				Level IV SWM/CLP				Other																											
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Relinquished by:				Received by:				Level IV SWM/CLP				Other																											
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Relinquished by:				Received by:				Level IV SWM/CLP				Other																											
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Relinquished by:				Received by:				Level II Std QC				Level III Std QC/RAW Data																											
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Standard Custody Form

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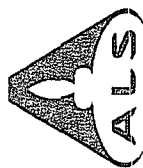
Customer Information				Project Information				ALS Project Manager: ALS Work Order #: 10510											
Purchase Order				Project Name				Lea Refinery New Wells				Parameter/Method Request for Analysis							
Work Order				Project Number				NAV-10-003				A BTEX (8021)							
Company Name				Bill To Company				Navajo Refining Company				B GRO (8015M)							
Send Report To				Invoice Attn				Darrell Moore				C DRO (8015M)							
Address				Address				P.O. Box 159				D ORO (8015M)							
City/State/Zip				City/State/Zip				Artesia, NM 80211				E Anions (300) CI							
Phone				Phone				(505) 748-3311											
Fax				Fax				(505) 746-5421											
e-Mail Address				e-Mail Address				dgboyner@SESJ-NM.com											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-22 95'	5/25/10	1200	Soil	8	2	X	X	X	X	X								
2	MW-23 10'	5/26/10	0820																
3	20'		0830																
4	30'		0840																
5	40'		0850																
6	50'		0905																
7	60'		0930																
8	70'		0945																
9	80'																		
10	MW-23 90'	5/26/10	0955	Soil	8	2	X	X	X	X	X								

Sampler(s) Please Print & Sign:		Shipment Method		Required Turnaround Time: (Check Box)		Notes: 10 Day TAT. Co. Dave Boyer	
Date: 5/27/10 1630		Received by: [Signature]		Cooler Temp: 52.6 °C		Cooler ID: 52.6 °C	
Relinquished by: Dave Boyer		Received by: [Signature]		Cooler Temp: 52.6 °C		Cooler ID: 52.6 °C	
Relinquished by: [Signature]		Received by: [Signature]		Cooler Temp: 52.6 °C		Cooler ID: 52.6 °C	
Logged by (Laboratory):		Checked by (Laboratory):		Cooler Temp: 52.6 °C		Cooler ID: 52.6 °C	
Preservative Key: 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O8, 6-NaHSO4, 7-Other, 8-4°C, 9-5035				Cooler Temp: 52.6 °C		Cooler ID: 52.6 °C	

QC Package: (Check One Box Below)		Level II Std. OC		Level III Std. OC/RAW Data		Level IV SW046/CLP	
☒ TRRP Checklist		☐ TRRP Checklist		☐ TRRP Checklist		☐ TRRP Checklist	

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Page 4 of 5

Customer Information				Project Information				Parameter/Method Request for Analysis																									
Project Name: Lea Refinery New Wells				Project Number: NAV-10-003				ALS Work Order #: 105460																									
Bill To Company: Navajo Refining Company				Invoice Attn: Darrell Moore				BTEX (8021)																									
Send Report To: Darrell Moore				P.O. Box 159				GRO (8015M)																									
Address: Artesia, NM 88211				(505) 748-3311				DRO (8015M)																									
City/State/Zip: Artesia, NM 88211				(505) 746-5421				ORO (8015M)																									
Phone: (505) 748-3311				e-Mail Address: dgboyen@SES-1-NM.com				Atrions (300) CI																									
Fax: (505) 746-5421																																	
e-Mail Address: dgboyen@SES-1-NM.com																																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Hold
1	MW-23 95'	5/26/10	1705	Soil	8	2		X	X	X	X																						
2	MW-23 100'		1015																														
3	MW-24 10'		1505																														
4			1520																														
5			1530																														
6			1540																														
7			1550																														
8			1605																														
9			1620																														
10	MW-24 80	5/26/10	1635	Soil	8	2	X	X	X	X																							

Sampler(s) Please Print & Sign: DG Boyer

Shipment Method: FedEx

Relinquished by: DG Boyer Date: 5/27/10 Time: 1630

Received by: Navajo Refining Company Date: 5/26/10 Time: 1000

Relinquished by: DG Boyer Date: 5/27/10 Time: 1630

Received by: Navajo Refining Company Date: 5/26/10 Time: 1000

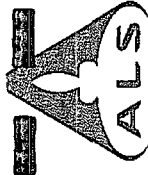
Logged by (Laboratory): Navajo Refining Company Date: 5/26/10 Time: 1000

Preservative Key: 1: HCl 2: HNO₃ 3: H₂SO₄ 4: NaOH 5: Na₂SO₃ 6: NaHSO₃ 7: Other 8: 4°C 9: 5035

Notes: 10 Day TAT. Co Dave Boyer

QC Packages: (Check One Box Below)

☒ Level II Std QC	☐ TRRP Checklist
☐ Level III Std QC/RAW Data	☐ TRRP Level IV
☐ Level IV SW/MS/CLP	☐ Other



10450 Starn Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
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Page 5 of 5

Customer Information				Project Information				ALS Project Manager: ALS Work Order #: 105546											
Project Name				Lea Refinery New Wells				Parameter/Method Request for Analysis											
Project Number				NAV-10-003				A BTEX (8021)											
Bill To Company				Navajo Refining Company				B GRO (8015M)											
Invoice Attn				Darrell Moore				C DRO (8015M)											
Address				P.O. Box 159				D ORO (8015M)											
City/State/Zip				Artesia, NM 88211				E Anions (300) Cl											
Phone				(505) 748-3311				F											
Fax				(505) 746-5421				G											
e-Mail Address				digboyer@SESI-NM.com				H											
No.	Sample Description	Date	Time	Matrix	Pres.	#Bottles	A	B	C	D	E	F	G	H	J	Hold			
1	MW-24 90' 5/24/10 1645 Soil	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X			
2	95' 1650	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X			
3	102' 1700	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X			
4	MW-24 105' 5/26/10 1715 Soil	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X			
5	TRIP Blank 051710-90	1,8	2	X	X	X	X	X	X	X	X	X	X	X	X	X			
6	TRIP Blank 051710-08	1,8	2	X	X	X	X	X	X	X	X	X	X	X	X	X			
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Results Due Date	
D. Digboyer	5/27/10 1600	FedEx	10 Day TAT, CC Dave Boyer	10 Day TAT, CC Dave Boyer	10 Day TAT, CC Dave Boyer	10 Day TAT, CC Dave Boyer	10 Day TAT, CC Dave Boyer

Relinquished by:		Received by (Laboratory):		QC Package: (Check One Box Below)	
D. Digboyer	5/27/10 1600	Received by (Laboratory):	5/28/10 0900	Level II Std QC	Level III Std QC
		Checked by (Laboratory):		Level IV SW/46/CLP	Other

Preservative Key: 1-HCl, 2-HNO₃, 3-H₂SO₄, 4-NaOH, 5-Na₂S₂O₃, 6-NaHSO₄, 7-Other, 8-4°C, 9-5035

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **28-May-10 09:00**

Work Order: **1005946**

Received by: **RSZ**

Checklist completed by Robert D. Harris
eSignature

28-May-10
Date

Reviewed by: Lay Lynn F Thibault
eSignature

10-Jun-10
Date

Matrices: soils/waters

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

2.3c,1.7c

002

Cooler(s)/Kit(s):

3252,2476

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



24-Aug-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1006149

Dear Darrell,

ALS Environmental received 13 samples on 04-Jun-2010 08:55 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: JayLynn F Thibault

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006149-01	MW-26 10'	Soil		6/2/2010 08:15	6/4/2010 08:55	☐
1006149-02	MW-26 20'	Soil		6/2/2010 08:25	6/4/2010 08:55	☐
1006149-03	MW-26 30'	Soil		6/2/2010 08:35	6/4/2010 08:55	☐
1006149-04	MW-26 40'	Soil		6/2/2010 08:50	6/4/2010 08:55	☐
1006149-05	MW-26 50'	Soil		6/2/2010 09:05	6/4/2010 08:55	☐
1006149-06	MW-26 60'	Soil		6/2/2010 09:15	6/4/2010 08:55	☐
1006149-07	MW-26 70'	Soil		6/2/2010 09:30	6/4/2010 08:55	☐
1006149-08	MW-26 80'	Soil		6/2/2010 09:40	6/4/2010 08:55	☐
1006149-09	MW-26 90'	Soil		6/2/2010 09:50	6/4/2010 08:55	☐
1006149-10	MW-26 100'	Soil		6/2/2010 10:00	6/4/2010 08:55	☐
1006149-11	MW-26 110'	Soil		6/2/2010 10:20	6/4/2010 08:55	☐
1006149-12	MW-26 105'	Soil		6/2/2010 10:10	6/4/2010 08:55	☐
1006149-13	Trip Blank 051710-37	Water		6/2/2010	6/4/2010 08:55	☐

ALS Environmental

Date: 24-Aug-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1006149

Case Narrative

Samples 1006149-02A, 03A, 04A, 05A, 06A, 07A, 08A & 10A were re-analyzed out of hold-time upon client's request to check the hit for Toluene. Upon reanalysis of these samples the Toluene hit was not present. This could be due to a lab artifact from construction.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 10'

Collection Date: 6/2/2010 08:15 AM

Work Order: 1006149

Lab ID: 1006149-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:08 AM
TPH (Motor Oil Range)	5.3		3.4	mg/Kg	1	6/8/2010 12:08 AM
Surr: 2-Fluorobiphenyl	90.1		70-130	%REC	1	6/8/2010 12:08 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 07:01 PM
Surr: 4-Bromofluorobenzene	83.0		70-130	%REC	1	6/10/2010 07:01 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 06:44 PM
Toluene	ND		0.0010	mg/Kg	1	6/9/2010 06:44 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 06:44 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 06:44 PM
Surr: 4-Bromofluorobenzene	119		75-131	%REC	1	6/9/2010 06:44 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/9/2010 06:44 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.97	mg/Kg	1	6/8/2010 06:04 PM
Surr: Selenate (surr)	98.5		85-115	%REC	1	6/8/2010 06:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 20'

Collection Date: 6/2/2010 08:25 AM

Work Order: 1006149

Lab ID: 1006149-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:06 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:06 AM
Surr: 2-Fluorobiphenyl	87.4		70-130	%REC	1	6/8/2010 01:06 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 07:24 PM
Surr: 4-Bromofluorobenzene	87.1		70-130	%REC	1	6/10/2010 07:24 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 07:04 PM
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 06:46 PM
Benzene	ND	H	0.0010	mg/Kg	1	6/24/2010 04:09 PM
Toluene	0.0024		0.0010	mg/Kg	1	6/9/2010 07:04 PM
Toluene	ND	H	0.0010	mg/Kg	1	6/24/2010 04:09 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 06:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 07:04 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	6/24/2010 04:09 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 06:46 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 07:04 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 06:46 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	6/24/2010 04:09 PM
Surr: 4-Bromofluorobenzene	116		75-131	%REC	1	6/9/2010 07:04 PM
Surr: 4-Bromofluorobenzene	92.2		75-131	%REC	1	7/20/2010 06:46 PM
Surr: 4-Bromofluorobenzene	95.6		75-131	%REC	1	6/24/2010 04:09 PM
Surr: Trifluorotoluene	95.1		73-130	%REC	1	6/24/2010 04:09 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/9/2010 07:04 PM
Surr: Trifluorotoluene	91.6		73-130	%REC	1	7/20/2010 06:46 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.94	mg/Kg	1	6/8/2010 07:08 PM
Surr: Selenate (surr)	98.2		85-115	%REC	1	6/8/2010 07:08 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 30'

Collection Date: 6/2/2010 08:35 AM

Work Order: 1006149

Lab ID: 1006149-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:25 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:25 AM
Surr: 2-Fluorobiphenyl	70.7		70-130	%REC	1	6/8/2010 01:25 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 07:47 PM
Surr: 4-Bromofluorobenzene	84.4		70-130	%REC	1	6/10/2010 07:47 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 07:24 PM
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:06 PM
Benzene	ND	HH	0.0010	mg/Kg	1	6/24/2010 03:49 PM
Toluene	0.0022		0.0010	mg/Kg	1	6/9/2010 07:24 PM
Toluene	ND	HH	0.0010	mg/Kg	1	6/24/2010 03:49 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:06 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 07:24 PM
Ethylbenzene	ND	HH	0.0010	mg/Kg	1	6/24/2010 03:49 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:06 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 07:24 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 07:06 PM
Xylenes, Total	ND	HH	0.0030	mg/Kg	1	6/24/2010 03:49 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/9/2010 07:24 PM
Surr: 4-Bromofluorobenzene	93.7		75-131	%REC	1	7/20/2010 07:06 PM
Surr: 4-Bromofluorobenzene	84.0		75-131	%REC	1	6/24/2010 03:49 PM
Surr: Trifluorotoluene	82.7		73-130	%REC	1	6/24/2010 03:49 PM
Surr: Trifluorotoluene	98.7		73-130	%REC	1	6/9/2010 07:24 PM
Surr: Trifluorotoluene	92.1		73-130	%REC	1	7/20/2010 07:06 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.98	mg/Kg	1	6/8/2010 07:29 PM
Surr: Selenate (surr)	98.5		85-115	%REC	1	6/8/2010 07:29 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 40'

Lab ID: 1006149-04

Collection Date: 6/2/2010 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:44 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:44 AM
Surr: 2-Fluorobiphenyl	75.4		70-130	%REC	1	6/8/2010 01:44 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 08:10 PM
Surr: 4-Bromofluorobenzene	85.3		70-130	%REC	1	6/10/2010 08:10 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:26 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 07:44 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:26 PM
Toluene	0.0018		0.0010	mg/Kg	1	6/9/2010 07:44 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:26 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 07:44 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 07:44 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 07:26 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/9/2010 07:44 PM
Surr: 4-Bromofluorobenzene	95.5		75-131	%REC	1	7/20/2010 07:26 PM
Surr: Trifluorotoluene	93.0		73-130	%REC	1	7/20/2010 07:26 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/9/2010 07:44 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.70		4.94	mg/Kg	1	6/8/2010 07:51 PM
Surr: Selenate (surr)	98.8		85-115	%REC	1	6/8/2010 07:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 50'

Collection Date: 6/2/2010 09:05 AM

Work Order: 1006149

Lab ID: 1006149-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 02:04 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 02:04 AM
Surr: 2-Fluorobiphenyl	87.5		70-130	%REC	1	6/8/2010 02:04 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 08:33 PM
Surr: 4-Bromofluorobenzene	86.3		70-130	%REC	1	6/10/2010 08:33 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:46 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 08:04 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:46 PM
Toluene	0.0017		0.0010	mg/Kg	1	6/9/2010 08:04 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 07:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 08:04 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 08:04 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 07:46 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/9/2010 08:04 PM
Surr: 4-Bromofluorobenzene	95.1		75-131	%REC	1	7/20/2010 07:46 PM
Surr: Trifluorotoluene	92.7		73-130	%REC	1	7/20/2010 07:46 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/9/2010 08:04 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	6/8/2010 08:12 PM
Surr: Selenate (surr)	98.4		85-115	%REC	1	6/8/2010 08:12 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 60'

Collection Date: 6/2/2010 09:15 AM

Work Order: 1006149

Lab ID: 1006149-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 02:23 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 02:23 AM
Surr: 2-Fluorobiphenyl	83.3		70-130	%REC	1	6/8/2010 02:23 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 08:56 PM
Surr: 4-Bromofluorobenzene	81.2		70-130	%REC	1	6/10/2010 08:56 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:06 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 08:24 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:06 PM
Toluene	0.0016		0.0010	mg/Kg	1	6/9/2010 08:24 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:06 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 08:24 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 08:24 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 08:06 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/9/2010 08:24 PM
Surr: 4-Bromofluorobenzene	95.7		75-131	%REC	1	7/20/2010 08:06 PM
Surr: Trifluorotoluene	92.3		73-130	%REC	1	7/20/2010 08:06 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/9/2010 08:24 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.95	mg/Kg	1	6/8/2010 08:33 PM
Surr: Selenate (surr)	99.0		85-115	%REC	1	6/8/2010 08:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-26 70'
Collection Date: 6/2/2010 09:30 AM

Work Order: 1006149
Lab ID: 1006149-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 02:43 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 02:43 AM
Surr: 2-Fluorobiphenyl	72.7		70-130	%REC	1	6/8/2010 02:43 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 09:19 PM
Surr: 4-Bromofluorobenzene	81.8		70-130	%REC	1	6/10/2010 09:19 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:25 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 08:44 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:25 PM
Toluene	0.0015		0.0010	mg/Kg	1	6/9/2010 08:44 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:25 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 08:44 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 08:44 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 08:25 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/9/2010 08:44 PM
Surr: 4-Bromofluorobenzene	95.6		75-131	%REC	1	7/20/2010 08:25 PM
Surr: Trifluorotoluene	93.4		73-130	%REC	1	7/20/2010 08:25 PM
Surr: Trifluorotoluene	99.0		73-130	%REC	1	6/9/2010 08:44 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.92	mg/Kg	1	6/8/2010 09:37 PM
Surr: Selenate (surr)	98.1		85-115	%REC	1	6/8/2010 09:37 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 80'

Collection Date: 6/2/2010 09:40 AM

Work Order: 1006149

Lab ID: 1006149-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 03:02 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 03:02 AM
Surr: 2-Fluorobiphenyl	79.9		70-130	%REC	1	6/8/2010 03:02 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 09:42 PM
Surr: 4-Bromofluorobenzene	83.9		70-130	%REC	1	6/10/2010 09:42 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:45 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 09:04 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:45 PM
Toluene	0.0017		0.0010	mg/Kg	1	6/9/2010 09:04 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 08:45 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 09:04 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 09:04 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 08:45 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/9/2010 09:04 PM
Surr: 4-Bromofluorobenzene	96.7		75-131	%REC	1	7/20/2010 08:45 PM
Surr: Trifluorotoluene	93.4		73-130	%REC	1	7/20/2010 08:45 PM
Surr: Trifluorotoluene	99.8		73-130	%REC	1	6/9/2010 09:04 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.96	mg/Kg	1	6/8/2010 09:59 PM
Surr: Selenate (surr)	98.3		85-115	%REC	1	6/8/2010 09:59 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 90'

Lab ID: 1006149-09

Collection Date: 6/2/2010 09:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 03:21 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 03:21 AM
Surr: 2-Fluorobiphenyl	71.2		70-130	%REC	1	6/8/2010 03:21 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 10:05 PM
Surr: 4-Bromofluorobenzene	85.9		70-130	%REC	1	6/10/2010 10:05 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 09:24 PM
Toluene	ND		0.0010	mg/Kg	1	6/9/2010 09:24 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 09:24 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 09:24 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/9/2010 09:24 PM
Surr: Trifluorotoluene	96.8		73-130	%REC	1	6/9/2010 09:24 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/8/2010 10:20 PM
Surr: Selenate (surr)	98.4		85-115	%REC	1	6/8/2010 10:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 100'

Lab ID: 1006149-10

Collection Date: 6/2/2010 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 03:41 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 03:41 AM
Surr: 2-Fluorobiphenyl	76.2		70-130	%REC	1	6/8/2010 03:41 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 10:27 PM
Surr: 4-Bromofluorobenzene	82.9		70-130	%REC	1	6/10/2010 10:27 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND	H	0.0010	mg/Kg	1	7/20/2010 09:05 PM
Benzene	ND		0.0010	mg/Kg	1	6/9/2010 11:24 PM
Toluene	ND	H	0.0010	mg/Kg	1	7/20/2010 09:05 PM
Toluene	0.0013		0.0010	mg/Kg	1	6/9/2010 11:24 PM
Ethylbenzene	ND	H	0.0010	mg/Kg	1	7/20/2010 09:05 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/9/2010 11:24 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/9/2010 11:24 PM
Xylenes, Total	ND	H	0.0030	mg/Kg	1	7/20/2010 09:05 PM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/9/2010 11:24 PM
Surr: 4-Bromofluorobenzene	93.6		75-131	%REC	1	7/20/2010 09:05 PM
Surr: Trifluorotoluene	94.2		73-130	%REC	1	7/20/2010 09:05 PM
Surr: Trifluorotoluene	96.7		73-130	%REC	1	6/9/2010 11:24 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.99	mg/Kg	1	6/8/2010 10:41 PM
Surr: Selenate (surr)	99.5		85-115	%REC	1	6/8/2010 10:41 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 110'

Lab ID: 1006149-11

Collection Date: 6/2/2010 10:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 04:00 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 04:00 AM
Surr: 2-Fluorobiphenyl	79.1		70-130	%REC	1	6/8/2010 04:00 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/10/2010 11:59 PM
Surr: 4-Bromofluorobenzene	81.4		70-130	%REC	1	6/10/2010 11:59 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 12:24 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 12:24 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 12:24 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 12:24 AM
Surr: 4-Bromofluorobenzene	97.3		75-131	%REC	1	6/10/2010 12:24 AM
Surr: Trifluorotoluene	96.6		73-130	%REC	1	6/10/2010 12:24 AM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	19.3		4.98	mg/Kg	1	6/8/2010 11:03 PM
Surr: Selenate (surr)	98.5		85-115	%REC	1	6/8/2010 11:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 105'

Collection Date: 6/2/2010 10:10 AM

Work Order: 1006149

Lab ID: 1006149-12

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 04:19 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 04:19 AM
Surr: 2-Fluorobiphenyl	78.2		70-130	%REC	1	6/8/2010 04:19 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 12:21 AM
Surr: 4-Bromofluorobenzene	82.0		70-130	%REC	1	6/11/2010 12:21 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 12:44 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 12:44 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 12:44 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 12:44 AM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/10/2010 12:44 AM
Surr: Trifluorotoluene	98.3		73-130	%REC	1	6/10/2010 12:44 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	ND		4.95	mg/Kg	1	6/8/2010 11:24 PM
Surr: Selenate (surr)	98.7		85-115	%REC	1	6/8/2010 11:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: Trip Blank 051710-37

Collection Date: 6/2/2010

Work Order: 1006149

Lab ID: 1006149-13

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/4/2010 09:58 PM
Toluene	ND		0.0010	mg/L	1	6/4/2010 09:58 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/4/2010 09:58 PM
Xylenes, Total	ND		0.0030	mg/L	1	6/4/2010 09:58 PM
Surr: 4-Bromofluorobenzene	115		77-129	%REC	1	6/4/2010 09:58 PM
Surr: Trifluorotoluene	113		75-130	%REC	1	6/4/2010 09:58 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Aug-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1006149

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Client: Navajo Refining Company
Work Order: 1006149
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43486** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-100607-43486** Units: **mg/Kg** Analysis Date: **6/7/2010 11:10 PM**
 Client ID: Run ID: **FID-7_100607B** SeqNo: **1996726** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.776	0.10	3.33	0	83.4	70-130	0			

LCS Sample ID: **FLCSS1-100607-43486** Units: **mg/Kg** Analysis Date: **6/7/2010 11:29 PM**
 Client ID: Run ID: **FID-7_100607B** SeqNo: **1996727** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.56	1.7	33.33	0	107	70-130	0			
TPH (Motor Oil Range)	37.07	3.4	33.33	0	111	70-130	0			
Surr: 2-Fluorobiphenyl	3.674	0.10	3.33	0	110	70-130	0			

MS Sample ID: **1006149-12BMS** Units: **mg/Kg** Analysis Date: **6/8/2010 04:39 AM**
 Client ID: **MW-26 105'** Run ID: **FID-7_100607B** SeqNo: **1996742** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.52	1.7	33.27	0	79.7	70-130	0			
TPH (Motor Oil Range)	27.94	3.4	33.27	0.2625	83.2	70-130	0			
Surr: 2-Fluorobiphenyl	3.072	0.10	3.324	0	92.4	70-130	0			

MSD Sample ID: **1006149-12BMSD** Units: **mg/Kg** Analysis Date: **6/8/2010 04:00 AM**
 Client ID: **MW-26 105'** Run ID: **FID-7_100607B** SeqNo: **1996743** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.75	1.7	33.32	0	83.3	70-130	26.52	4.52	30	
TPH (Motor Oil Range)	30.01	3.4	33.32	0.2625	89.3	70-130	27.94	7.12	30	
Surr: 2-Fluorobiphenyl	3.008	0.10	3.329	0	90.4	70-130	3.072	2.1	30	

The following samples were analyzed in this batch:

1006149-01B	1006149-02B	1006149-03B
1006149-04B	1006149-05B	1006149-06B
1006149-07B	1006149-08B	1006149-09B
1006149-10B	1006149-11B	1006149-12B

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:36 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983431 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	35.78	1.0	30	0	119	77-129	0			
Surr: Trifluorotoluene	35.33	1.0	30	0	118	75-130	0			

MBLK Sample ID: MEOHW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:56 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983432 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	35.3	1.0	30	0	118	77-129	0			
Surr: Trifluorotoluene	33.88	1.0	30	0	113	75-130	0			

LCS Sample ID: BLCBW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 02:41 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1988340 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.38	1.0	20	0	96.9	77-126	0			
Toluene	19.18	1.0	20	0	95.9	80-124	0			
Ethylbenzene	19.59	1.0	20	0	98	76-125	0			
Xylenes, Total	57.56	3.0	60	0	95.9	79-124	0			
Surr: 4-Bromofluorobenzene	34.36	1.0	30	0	115	77-129	0			
Surr: Trifluorotoluene	33.47	1.0	30	0	112	75-130	0			

MS Sample ID: 1006099-01AMS Units: µg/L Analysis Date: 6/4/2010 09:19 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983442 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	203.4	10	200	0	102	77-126	0			
Toluene	201.2	10	200	0	101	80-124	0			
Ethylbenzene	199.8	10	200	0	99.9	76-125	0			
Xylenes, Total	598.2	30	600	0	99.7	79-124	0			
Surr: 4-Bromofluorobenzene	350.7	10	300	0	117	77-129	0			
Surr: Trifluorotoluene	343	10	300	0	114	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006149
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MSD Sample ID: 1006099-01AMSD Units: µg/L Analysis Date: 6/4/2010 09:39 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983443 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	197.7	10	200	0	98.9	77-126	203.4	2.84	20	
Toluene	195.8	10	200	0	97.9	80-124	201.2	2.73	20	
Ethylbenzene	197.1	10	200	0	98.5	76-125	199.8	1.39	20	
Xylenes, Total	589.4	30	600	0	98.2	79-124	598.2	1.49	20	
Surr: 4-Bromofluorobenzene	352.7	10	300	0	118	77-129	350.7	0.583	20	
Surr: Trifluorotoluene	350.3	10	300	0	117	75-130	343	2.1	20	

The following samples were analyzed in this batch:

1006149-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006149

Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92236

Instrument ID BTEX3

Method: SW8021B

MBLK Sample ID: BBLKS1-060910-R92236

Units: µg/Kg

Analysis Date: 6/9/2010 10:34 AM

Client ID:

Run ID: BTEX3_100609A

SeqNo: 1988652

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	32.9	1.0	30	0	110	75-131	0			
Surr: Trifluorotoluene	30.63	1.0	30	0	102	73-130	0			

LCS Sample ID: BLCSS1-060910-R92236

Units: µg/Kg

Analysis Date: 6/9/2010 09:57 AM

Client ID:

Run ID: BTEX3_100609A

SeqNo: 1988651

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.77	1.0	20	0	104	74-129	0			
Toluene	21.79	1.0	20	0	109	75-128	0			
Ethylbenzene	21.5	1.0	20	0	108	73-127	0			
Xylenes, Total	66.69	3.0	60	0	111	74-127	0			
Surr: 4-Bromofluorobenzene	33.51	1.0	30	0	112	75-131	0			
Surr: Trifluorotoluene	30.61	1.0	30	0	102	73-130	0			

MS Sample ID: 1006174-01AMS

Units: µg/Kg

Analysis Date: 6/9/2010 05:11 PM

Client ID:

Run ID: BTEX3_100609A

SeqNo: 1988666

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.93	1.0	20	0	110	74-129	0			
Toluene	21.21	1.0	20	0	106	75-128	0			
Ethylbenzene	22.83	1.0	20	0	114	73-127	0			
Xylenes, Total	69.56	3.0	60	0	116	74-127	0			
Surr: 4-Bromofluorobenzene	35.55	1.0	30	0	118	75-131	0			
Surr: Trifluorotoluene	32.02	1.0	30	0	107	73-130	0			

MSD Sample ID: 1006174-01AMSD

Units: µg/Kg

Analysis Date: 6/9/2010 05:40 PM

Client ID:

Run ID: BTEX3_100609A

SeqNo: 1988667

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.05	1.0	20	0	115	74-129	21.93	4.97	30	
Toluene	25.18	1.0	20	0	126	75-128	21.21	17.1	30	
Ethylbenzene	22.53	1.0	20	0	113	73-127	22.83	1.3	30	
Xylenes, Total	70.97	3.0	60	0	118	74-127	69.56	2	30	
Surr: 4-Bromofluorobenzene	33.07	1.0	30	0	110	75-131	35.55	7.22	30	
Surr: Trifluorotoluene	34.98	1.0	30	0	117	73-130	32.02	8.82	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006149
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92236** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1006149-01A	1006149-02A	1006149-03A
1006149-04A	1006149-05A	1006149-06A
1006149-07A	1006149-08A	1006149-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92295 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061010-R92295 Units: µg/Kg Analysis Date: 6/9/2010 10:44 PM
 Client ID: Run ID: BTEX3_100609B SeqNo: 1989983 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.32	1.0	30	0	97.7	75-131	0			
Surr: Trifluorotoluene	29.07	1.0	30	0	96.9	73-130	0			

LCS Sample ID: BLCSS1-061010-R92295 Units: µg/Kg Analysis Date: 6/9/2010 10:04 PM
 Client ID: Run ID: BTEX3_100609B SeqNo: 1989982 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.28	1.0	20	0	101	74-129	0			
Toluene	21.36	1.0	20	0	107	75-128	0			
Ethylbenzene	20.91	1.0	20	0	105	73-127	0			
Xylenes, Total	63.96	3.0	60	0	107	74-127	0			
Surr: 4-Bromofluorobenzene	31.48	1.0	30	0	105	75-131	0			
Surr: Trifluorotoluene	29.03	1.0	30	0	96.8	73-130	0			

MS Sample ID: 1006149-10AMS Units: µg/Kg Analysis Date: 6/9/2010 11:44 PM
 Client ID: MW-26 100' Run ID: BTEX3_100609B SeqNo: 1989987 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.78	1.0	20	0	104	74-129	0			
Toluene	21.38	1.0	20	1.279	100	75-128	0			
Ethylbenzene	21.44	1.0	20	0	107	73-127	0			
Xylenes, Total	65.23	3.0	60	0	109	74-127	0			
Surr: 4-Bromofluorobenzene	31.64	1.0	30	0	105	75-131	0			
Surr: Trifluorotoluene	29.62	1.0	30	0	98.7	73-130	0			

MSD Sample ID: 1006149-10AMSD Units: µg/Kg Analysis Date: 6/10/2010 12:04 AM
 Client ID: MW-26 100' Run ID: BTEX3_100609B SeqNo: 1989989 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.97	1.0	20	0	105	74-129	20.78	0.905	30	
Toluene	21.41	1.0	20	1.279	101	75-128	21.38	0.156	30	
Ethylbenzene	21.2	1.0	20	0	106	73-127	21.44	1.12	30	
Xylenes, Total	64.13	3.0	60	0	107	74-127	65.23	1.7	30	
Surr: 4-Bromofluorobenzene	31.71	1.0	30	0	106	75-131	31.64	0.209	30	
Surr: Trifluorotoluene	30.01	1.0	30	0	100	73-130	29.62	1.3	30	

The following samples were analyzed in this batch:

1006149-10A 1006149-11A 1006149-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92600 Instrument ID FID-9 Method: SW8015

MBLK	Sample ID: GBLKS-061010-R92600					Units: mg/Kg		Analysis Date: 6/10/2010 05:51 PM		
Client ID:	Run ID: FID-9_100610D					SeqNo: 1995719		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.0872	0.0050	0.1	0	87.2	70-130	0			

LCS	Sample ID: GLCSS-061010-R92600					Units: mg/Kg		Analysis Date: 6/10/2010 05:04 PM		
Client ID:	Run ID: FID-9_100610D					SeqNo: 1995717		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.081	0.050	1	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	0.08969	0.0050	0.1	0	89.7	70-130	0			

LCSD	Sample ID: GLCSDS-061010-R92600					Units: mg/Kg		Analysis Date: 6/10/2010 05:28 PM		
Client ID:	Run ID: FID-9_100610D					SeqNo: 1995718		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.161	0.050	1	0	116	70-130	1.081	7.17	30	
Surr: 4-Bromofluorobenzene	0.09016	0.0050	0.1	0	90.2	70-130	0.08969	0.527	30	

MS	Sample ID: 1006149-10BMS					Units: mg/Kg		Analysis Date: 6/10/2010 11:13 PM		
Client ID: MW-26 100'	Run ID: FID-9_100610D					SeqNo: 1995732		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.103	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	0.08433	0.0050	0.1	0	84.3	70-130	0			

MSD	Sample ID: 1006149-10BMSD					Units: mg/Kg		Analysis Date: 6/10/2010 11:36 PM		
Client ID: MW-26 100'	Run ID: FID-9_100610D					SeqNo: 1995733		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.092	0.050	1	0	109	70-130	1.103	0.97	30	
Surr: 4-Bromofluorobenzene	0.08751	0.0050	0.1	0	87.5	70-130	0.08433	3.7	30	

The following samples were analyzed in this batch:

1006149-01B	1006149-02B	1006149-03B
1006149-04B	1006149-05B	1006149-06B
1006149-07B	1006149-08B	1006149-09B
1006149-10B	1006149-11B	1006149-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R93104 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-062430-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:57 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2006998 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.73	1.0	30	0	92.4	75-131	0			
Surr: Trifluorotoluene	27.52	1.0	30	0	91.7	73-130	0			

LCS Sample ID: BLCSS1-062410-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:37 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2006996 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.76	1.0	20	0	109	74-129	0			
Toluene	21.5	1.0	20	0	107	75-128	0			
Ethylbenzene	21.25	1.0	20	0	106	73-127	0			
Xylenes, Total	65.04	3.0	60	0	108	74-127	0			
Surr: 4-Bromofluorobenzene	30.04	1.0	30	0	100	75-131	0			
Surr: Trifluorotoluene	29.37	1.0	30	0	97.9	73-130	0			

MS Sample ID: 1006812-08AMS Units: µg/Kg Analysis Date: 6/24/2010 07:29 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2007016 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.92	1.0	20	0	99.6	74-129	0			
Toluene	19.38	1.0	20	0	96.9	75-128	0			
Ethylbenzene	18.52	1.0	20	0	92.6	73-127	0			
Xylenes, Total	56.29	3.0	60	0	93.8	74-127	0			
Surr: 4-Bromofluorobenzene	27.28	1.0	30	0	90.9	75-131	0			
Surr: Trifluorotoluene	25.65	1.0	30	0	85.5	73-130	0			

MSD Sample ID: 1006812-08AMSD Units: µg/Kg Analysis Date: 6/24/2010 07:49 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2007017 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.57	1.0	20	0	97.9	74-129	19.92	1.75	30	
Toluene	18	1.0	20	0	90	75-128	19.38	7.39	30	
Ethylbenzene	16.92	1.0	20	0	84.6	73-127	18.52	9.03	30	
Xylenes, Total	51.35	3.0	60	0	85.6	74-127	56.29	9.18	30	
Surr: 4-Bromofluorobenzene	29.51	1.0	30	0	98.4	75-131	27.28	7.84	30	
Surr: Trifluorotoluene	28.07	1.0	30	0	93.6	73-130	25.65	9	30	

The following samples were analyzed in this batch:

1006149-02A 1006149-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R94397 Instrument ID BTEX3 Method: SW8021B

MBLK	Sample ID: BBLKS1-072010-R94397				Units: µg/Kg		Analysis Date: 7/20/2010 12:01 PM			
Client ID:	Run ID: BTEX3_100720A				SeqNo: 2035224		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.49	1.0	30	0	95	75-131	0			
Surr: Trifluorotoluene	28.48	1.0	30	0	94.9	73-130	0			

LCS	Sample ID: BLCSS1-072010-R94397					Units: µg/Kg		Analysis Date: 7/20/2010 11:41 AM		
Client ID:	Run ID: BTEX3_100720A				SeqNo: 2035223		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.88	1.0	20	0	104	74-129	0			
Toluene	20.48	1.0	20	0	102	75-128	0			
Ethylbenzene	17.84	1.0	20	0	89.2	73-127	0			
Xylenes, Total	59.81	3.0	60	0	99.7	74-127	0			
Surr: 4-Bromofluorobenzene	29.51	1.0	30	0	98.4	75-131	0			
Surr: Trifluorotoluene	29.36	1.0	30	0	97.9	73-130	0			

MS	Sample ID: 1007421-06AMS					Units: µg/Kg	Analysis Date: 7/20/2010 01:26 PM			
Client ID:	Run ID: BTEX3_100720A				SeqNo: 2035227	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12.4	1.0	20	0.5399	59.3	74-129	0			S
Toluene	12.08	1.0	20	2.205	49.4	75-128	0			S
Ethylbenzene	14.46	1.0	20	2.804	58.3	73-127	0			S
Xylenes, Total	39.72	3.0	60	11.55	47	74-127	0			S
Surr: 4-Bromofluorobenzene	30.26	1.0	30	0	101	75-131	0			
Surr: Trifluorotoluene	28.08	1.0	30	0	93.6	73-130	0			

MSD	Sample ID: 1007421-06AMSD				Units: µg/Kg		Analysis Date: 7/20/2010 01:46 PM			
Client ID:	Run ID: BTEX3_100720A				SeqNo: 2035228		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	11.45	1.0	20	0.5399	54.5	74-129	12.4	8.02	30	S
Toluene	10.59	1.0	20	2.205	41.9	75-128	12.08	13.2	30	S
Ethylbenzene	12.18	1.0	20	2.804	46.9	73-127	14.46	17.1	30	S
Xylenes, Total	36.34	3.0	60	11.55	41.3	74-127	39.72	8.88	30	S
Surr: 4-Bromofluorobenzene	29.17	1.0	30	0	97.2	75-131	30.26	3.66	30	
Surr: Trifluorotoluene	27.78	1.0	30	0	92.6	73-130	28.08	1.06	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006149
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R94397 Instrument ID BTEX3 Method: SW8021B

The following samples were analyzed in this batch:

1006149-02A	1006149-03A	1006149-04A
1006149-05A	1006149-06A	1006149-07A
1006149-08A	1006149-10A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006149
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43543 Instrument ID ICS3000 Method: E300

LCS		Sample ID: WLCSS1-060710-43543				Units: mg/Kg		Analysis Date: 6/8/2010 02:50 PM		
Client ID:		Run ID: ICS3000_100608A				SeqNo: 2004104		Prep Date: 6/7/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	195.9	5.0	200	0	98	90-110	0			
Surr: Selenate (surr)	48.63	1.0	50	0	97.3	85-115	0			

MS		Sample ID: 1006149-01BMS				Units: mg/Kg		Analysis Date: 6/8/2010 06:25 PM		
Client ID: MW-26 10'		Run ID: ICS3000_100608A				SeqNo: 2004106		Prep Date: 6/7/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.73	5.0	99.4	4.056	96.2	75-125	0			
Surr: Selenate (surr)	48.93	0.99	49.7	0	98.4	80-120	0			

MS		Sample ID: 1006149-12BMS				Units: mg/Kg		Analysis Date: 6/8/2010 11:45 PM		
Client ID: MW-26 105'		Run ID: ICS3000_100608A				SeqNo: 2004121		Prep Date: 6/7/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.6	5.0	99.01	2.703	97.9	75-125	0			
Surr: Selenate (surr)	49.28	0.99	49.5	0	99.5	80-120	0			

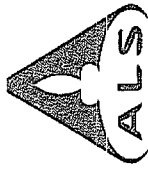
MSD		Sample ID: 1006149-01BMSD				Units: mg/Kg		Analysis Date: 6/8/2010 06:47 PM		
Client ID: MW-26 10'		Run ID: ICS3000_100608A				SeqNo: 2004107		Prep Date: 6/7/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.82	5.0	99.4	4.056	96.3	75-125	99.73	0.0897	20	
Surr: Selenate (surr)	49.02	0.99	49.7	0	98.6	80-120	48.93	0.183	20	

MSD		Sample ID: 1006149-12BMSD				Units: mg/Kg		Analysis Date: 6/9/2010 12:07 AM		
Client ID: MW-26 105'		Run ID: ICS3000_100608A				SeqNo: 2004122		Prep Date: 6/7/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.71	5.0	99.01	2.703	98	75-125	99.6	0.109	20	
Surr: Selenate (surr)	49.18	0.99	49.5	0	99.3	80-120	49.28	0.201	20	

The following samples were analyzed in this batch:

1006149-01B	1006149-02B	1006149-03B
1006149-04B	1006149-05B	1006149-06B
1006149-07B	1006149-08B	1006149-09B
1006149-10B	1006149-11B	1006149-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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Chain of Custody Form

ALS Laboratory Group

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Holland, MI 49424-9263
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Page 2 of 2

Customer Information				Project Information				ALS Project Manager: [Signature]												ALS Work Order #: 10049											
Project Name				Lea Refinery New Wells				Parameter/Method Request for Analysis																							
Project Number				NAV-10-003																											
Bill To Company				Navajo Refining Company																											
Invoice Attn				Darrell Moore																											
Address				P.O. Box 159																											
City/State/Zip				Artesia, NM 80211																											
Phone				(505) 748-3311																											
Fax				(505) 746-5421																											
e-Mail/Address				dgmoye@SESL-NM.com																											
No.	Sample Description	Date	Time	Matrix	Pres	# Bottles	A	B	C	D	E	F	G	H	I	Hold															
1	MW-26 110'	6/2/10	1020	50:1	B	2	X	X	X	X	X																				
2	MW-26 105'	6/2/10	1010	50:1	B	2	X	X	X	X	X																				
3	TRIP Blank 051710-37	-	1130	1, B		2	X																								
4																															
5																															
6																															
7																															
8																															
9																															
10																															

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Results Due Date	
A. Royer		Fed Ex		15 Wk Days		2 Wk Days	
Relinquished by: [Signature]		Time: 6/3/10		Time: 1715		Time: 1715	
Relinquished by: [Signature]		Time: 6/3/10		Time: 1715		Time: 1715	
Logged by (Laboratory):		Time:		Time:		Time:	
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ S ₂ O ₃ , 6-NaHSO ₄ , 7-Other		Time:		Time:		Time:	

QC Package: (Check One Box Below)		Cooler Temp		Cooler ID		Notes	
Level II Sid QC		Level II Sid QC		210		10 Day TAT. Co Dave Royer	
Level III Sid QC/Raw Data		Level III Sid QC/Raw Data					
Level IV SW/RAW/CLP		Level IV SW/RAW/CLP					
Other		Other					

Sample Receipt Checklist

Client Name: NAVAJO REFININGDate/Time Received: 04-Jun-10 08:55Work Order: 1006149Received by: RSZChecklist completed by Robert D. Harris

04-Jun-10

Reviewed by:

eSignature

Date

eSignature

Date

Matrices: soilsCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>1.6c, 1.2c</u>	<u>002</u>	
Cooler(s)/Kit(s):	<u>3290, 1827</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:	<u></u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

23-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733

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Re: Lea Refinery New Wells

Work Order: 1006296

Dear Darrell,

ALS Laboratory Group received 35 samples on 09-Jun-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 63.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

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A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company**Project:** Lea Refinery New Wells**Work Order:** 1006296**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006296-01	MW-25 10'	Soil		6/4/2010 11:20	6/9/2010 08:50	☐
1006296-02	MW-25 20'	Soil		6/4/2010 11:30	6/9/2010 08:50	☐
1006296-03	MW-25 30'	Soil		6/4/2010 11:40	6/9/2010 08:50	☐
1006296-04	MW-25 40'	Soil		6/4/2010 11:50	6/9/2010 08:50	☐
1006296-05	MW-25 50'	Soil		6/4/2010 12:40	6/9/2010 08:50	☐
1006296-06	MW-25 60'	Soil		6/4/2010 12:50	6/9/2010 08:50	☐
1006296-07	MW-25 70'	Soil		6/4/2010 13:00	6/9/2010 08:50	☐
1006296-08	MW-25 80'	Soil		6/4/2010 13:05	6/9/2010 08:50	☐
1006296-09	MW-25 90'	Soil		6/4/2010 13:15	6/9/2010 08:50	☐
1006296-10	MW-25 100'	Soil		6/4/2010 13:25	6/9/2010 08:50	☐
1006296-11	MW-25 105'	Soil		6/4/2010 13:30	6/9/2010 08:50	☐
1006296-12	MW-25 110'	Soil		6/4/2010 13:35	6/9/2010 08:50	☐
1006296-13	MW-27 10'	Soil		6/5/2010 08:50	6/9/2010 08:50	☐
1006296-14	MW-27 20'	Soil		6/5/2010 09:00	6/9/2010 08:50	☐
1006296-15	MW-27 30'	Soil		6/5/2010 09:05	6/9/2010 08:50	☐
1006296-16	MW-27 40'	Soil		6/5/2010 09:15	6/9/2010 08:50	☐
1006296-17	MW-27 50'	Soil		6/5/2010 09:35	6/9/2010 08:50	☐
1006296-18	MW-27 60'	Soil		6/5/2010 09:45	6/9/2010 08:50	☐
1006296-19	MW-27 70'	Soil		6/5/2010 10:10	6/9/2010 08:50	☐
1006296-20	MW-27 80'	Soil		6/5/2010 10:20	6/9/2010 08:50	☐
1006296-21	MW-27 90'	Soil		6/5/2010 10:30	6/9/2010 08:50	☐
1006296-22	MW-27 100'	Soil		6/5/2010 10:40	6/9/2010 08:50	☐
1006296-23	MW-27 105'	Soil		6/5/2010 10:50	6/9/2010 08:50	☐
1006296-24	MW-29 10'	Soil		6/5/2010 15:05	6/9/2010 08:50	☐
1006296-25	MW-29 20'	Soil		6/5/2010 15:30	6/9/2010 08:50	☐
1006296-26	MW-29 30'	Soil		6/5/2010 15:45	6/9/2010 08:50	☐
1006296-27	MW-29 40'	Soil		6/6/2010 06:40	6/9/2010 08:50	☐
1006296-28	MW-29 50'	Soil		6/6/2010 06:50	6/9/2010 08:50	☐
1006296-29	MW-29 60'	Soil		6/6/2010 07:00	6/9/2010 08:50	☐
1006296-30	MW-29 70'	Soil		6/6/2010 07:10	6/9/2010 08:50	☐
1006296-31	MW-29 80'	Soil		6/6/2010 07:15	6/9/2010 08:50	☐
1006296-32	MW-29 90'	Soil		6/6/2010 10:20	6/9/2010 08:50	☐
1006296-33	MW-29 100'	Soil		6/6/2010 10:30	6/9/2010 08:50	☐
1006296-34	MW-29 105'	Soil		6/6/2010 10:45	6/9/2010 08:50	☐
1006296-35	Trip Blank-052410-17	Water		6/6/2010	6/9/2010 08:50	☐

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Work Order: 1006296

Case Narrative

Batch R92562, Method BTEX_W, Sample BLCSW1-061410: Lowest practical dilution for 1006336-14A, 15A & 1006261-01A due to matrix.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 10'

Collection Date: 6/4/2010 11:20 AM

Work Order: 1006296

Lab ID: 1006296-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 03:53 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 03:53 PM
Surr: 2-Fluorobiphenyl	75.3		70-130	%REC	1	6/12/2010 03:53 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 03:15 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/18/2010 03:15 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 12:31 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 12:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 12:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 12:31 PM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/14/2010 12:31 PM
Surr: Trifluorotoluene	99.2		73-130	%REC	1	6/14/2010 12:31 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		4.99	mg/Kg	1	6/21/2010 01:02 PM
Surr: Selenate (surr)	9.76	S	85-115	%REC	1	6/21/2010 01:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 20'

Collection Date: 6/4/2010 11:30 AM

Work Order: 1006296

Lab ID: 1006296-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 04:12 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 04:12 PM
Surr: 2-Fluorobiphenyl	70.7		70-130	%REC	1	6/12/2010 04:12 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 03:39 PM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/18/2010 03:39 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 12:51 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 12:51 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 12:51 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 12:51 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/14/2010 12:51 PM
Surr: Trifluorotoluene	98.0		73-130	%REC	1	6/14/2010 12:51 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		5.00	mg/Kg	1	6/21/2010 02:22 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/21/2010 02:22 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 30'

Collection Date: 6/4/2010 11:40 AM

Work Order: 1006296

Lab ID: 1006296-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 04:31 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 04:31 PM
Surr: 2-Fluorobiphenyl	90.7		70-130	%REC	1	6/12/2010 04:31 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 11:38 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/17/2010 11:38 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 01:11 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 01:11 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 01:11 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 01:11 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/14/2010 01:11 PM
Surr: Trifluorotoluene	98.5		73-130	%REC	1	6/14/2010 01:11 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		4.99	mg/Kg	1	6/21/2010 02:36 PM
Surr: Selenate (surr)	96.0		85-115	%REC	1	6/21/2010 02:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-25 40'
Collection Date: 6/4/2010 11:50 AM

Work Order: 1006296
Lab ID: 1006296-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 05:30 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 05:30 PM
Surr: 2-Fluorobiphenyl	90.0		70-130	%REC	1	6/12/2010 05:30 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 01:11 AM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	6/18/2010 01:11 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 01:31 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 01:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 01:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 01:31 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/14/2010 01:31 PM
Surr: Trifluorotoluene	99.9		73-130	%REC	1	6/14/2010 01:31 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	6.95		4.94	mg/Kg	1	6/21/2010 02:51 PM
Surr: Selenate (surr)	99.0		85-115	%REC	1	6/21/2010 02:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-25 50'
Collection Date: 6/4/2010 12:40 PM

Work Order: 1006296
Lab ID: 1006296-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 05:49 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 05:49 PM
Surr: 2-Fluorobiphenyl	80.7		70-130	%REC	1	6/12/2010 05:49 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 01:34 AM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/18/2010 01:34 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 01:51 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 01:51 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 01:51 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 01:51 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/14/2010 01:51 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/14/2010 01:51 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	6.56		5.00	mg/Kg	1	6/21/2010 03:35 PM
Surr: Selenate (surr)	96.0		85-115	%REC	1	6/21/2010 03:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 60'

Lab ID: 1006296-06

Collection Date: 6/4/2010 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 06:08 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 06:08 PM
Surr: 2-Fluorobiphenyl	84.7		70-130	%REC	1	6/12/2010 06:08 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 01:57 AM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	6/18/2010 01:57 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 03:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 03:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 03:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 03:27 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/14/2010 03:27 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/14/2010 03:27 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	7.16		4.98	mg/Kg	1	6/21/2010 03:49 PM
Surr: Selenate (surr)	99.0		85-115	%REC	1	6/21/2010 03:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 70'

Lab ID: 1006296-07

Collection Date: 6/4/2010 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/10/2010 Analyst: KMB 6/12/2010 06:28 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/12/2010 06:28 PM
Surr: 2-Fluorobiphenyl	78.1			70-130 %REC	1	6/12/2010 06:28 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/18/2010 02:21 AM
Surr: 4-Bromofluorobenzene	106			70-130 %REC	1	6/18/2010 02:21 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/14/2010 03:47 PM
Toluene	ND			0.0010 mg/Kg	1	6/14/2010 03:47 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/14/2010 03:47 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/14/2010 03:47 PM
Surr: 4-Bromofluorobenzene	110			75-131 %REC	1	6/14/2010 03:47 PM
Surr: Trifluorotoluene	99.1			73-130 %REC	1	6/14/2010 03:47 PM
ANIONS						
Chloride	8.43		E300	5.00 mg/Kg	1	Prep Date: 6/10/2010 Analyst: DM 6/21/2010 04:04 PM
Surr: Selenate (surr)	98.4			85-115 %REC	1	6/21/2010 04:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 80'

Collection Date: 6/4/2010 01:05 PM

Work Order: 1006296

Lab ID: 1006296-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 06:47 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 06:47 PM
Surr: 2-Fluorobiphenyl	96.8		70-130	%REC	1	6/12/2010 06:47 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 02:44 AM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/18/2010 02:44 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 04:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 04:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 04:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 04:07 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/14/2010 04:07 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/14/2010 04:07 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	6.05		5.00	mg/Kg	1	6/21/2010 05:07 PM
Surr: Selenate (surr)	107		85-115	%REC	1	6/21/2010 05:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 90'

Lab ID: 1006296-09

Collection Date: 6/4/2010 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 07:07 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 07:07 PM
Surr: 2-Fluorobiphenyl	98.1		70-130	%REC	1	6/12/2010 07:07 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 03:07 AM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/18/2010 03:07 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 04:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 04:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 04:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 04:27 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/14/2010 04:27 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/14/2010 04:27 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		4.91	mg/Kg	1	6/21/2010 04:33 PM
Surr: Selenate (surr)	98.6		85-115	%REC	1	6/21/2010 04:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery New Wells
 Sample ID: MW-25 100'
 Collection Date: 6/4/2010 01:25 PM

Work Order: 1006296
 Lab ID: 1006296-10
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 07:26 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 07:26 PM
Surr: 2-Fluorobiphenyl	85.3		70-130	%REC	1	6/12/2010 07:26 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 04:02 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	6/18/2010 04:02 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 04:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 04:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 04:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 04:47 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/14/2010 04:47 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/14/2010 04:47 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	5.36		5.00	mg/Kg	1	6/21/2010 04:47 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/21/2010 04:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 105'

Lab ID: 1006296-11

Collection Date: 6/4/2010 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 07:45 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 07:45 PM
Surr: 2-Fluorobiphenyl	83.7		70-130	%REC	1	6/12/2010 07:45 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 04:26 PM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/18/2010 04:26 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 05:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 05:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 05:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 05:07 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/14/2010 05:07 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/14/2010 05:07 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	6.40		4.98	mg/Kg	1	6/21/2010 05:41 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/21/2010 05:41 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 110'

Collection Date: 6/4/2010 01:35 PM

Work Order: 1006296

Lab ID: 1006296-12

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 08:05 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 08:05 PM
Surr: 2-Fluorobiphenyl	77.7		70-130	%REC	1	6/12/2010 08:05 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 05:27 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/18/2010 05:27 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 05:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 05:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 05:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 05:27 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/14/2010 05:27 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/14/2010 05:27 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	37.9		4.99	mg/Kg	1	6/21/2010 06:33 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/21/2010 06:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 10'

Collection Date: 6/5/2010 08:50 AM

Work Order: 1006296

Lab ID: 1006296-13

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		8.5	mg/Kg	5	6/23/2010 11:23 AM
TPH (Motor Oil Range)	130		17	mg/Kg	5	6/23/2010 11:23 AM
Surr: 2-Fluorobiphenyl	90.5		70-130	%REC	5	6/23/2010 11:23 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 05:50 AM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/18/2010 05:50 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 05:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 05:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 05:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 05:47 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/14/2010 05:47 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/14/2010 05:47 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	6.51		5.00	mg/Kg	1	6/21/2010 06:10 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/21/2010 06:10 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery New Wells
Sample ID: MW-27 20'
Collection Date: 6/5/2010 09:00 AM

Work Order: 1006296
Lab ID: 1006296-14
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 08:05 PM
TPH (Motor Oil Range)	22		3.4	mg/Kg	1	6/12/2010 08:05 PM
Surr: 2-Fluorobiphenyl	76.5		70-130	%REC	1	6/12/2010 08:05 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 06:13 AM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	6/18/2010 06:13 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/14/2010 06:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/14/2010 06:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/14/2010 06:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/14/2010 06:07 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/14/2010 06:07 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/14/2010 06:07 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	8.24		4.91	mg/Kg	1	6/21/2010 06:47 PM
Surr: Selenate (surr)	99.5		85-115	%REC	1	6/21/2010 06:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 30'

Collection Date: 6/5/2010 09:05 AM

Work Order: 1006296

Lab ID: 1006296-15

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 08:24 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 08:24 PM
Surr: 2-Fluorobiphenyl	70.5		70-130	%REC	1	6/12/2010 08:24 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 06:37 AM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	6/18/2010 06:37 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/15/2010 08:20 PM
Toluene	ND		0.0010	mg/Kg	1	6/15/2010 08:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/15/2010 08:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/15/2010 08:20 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/15/2010 08:20 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/15/2010 08:20 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	17.3		5.00	mg/Kg	1	6/22/2010 09:15 AM
Surr: Selenate (surr)	112		85-115	%REC	1	6/22/2010 09:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 40'

Collection Date: 6/5/2010 09:15 AM

Work Order: 1006296

Lab ID: 1006296-16

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 08:43 PM
TPH (Motor Oil Range)	30		3.4	mg/Kg	1	6/12/2010 08:43 PM
Surr: 2-Fluorobiphenyl	70.5		70-130	%REC	1	6/12/2010 08:43 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:00 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/18/2010 07:00 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/15/2010 08:40 PM
Toluene	ND		0.0010	mg/Kg	1	6/15/2010 08:40 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/15/2010 08:40 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/15/2010 08:40 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/15/2010 08:40 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/15/2010 08:40 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	11.2		5.00	mg/Kg	1	6/21/2010 07:45 PM
Surr: Selenate (surr)	98.8		85-115	%REC	1	6/21/2010 07:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 50'

Collection Date: 6/5/2010 09:35 AM

Work Order: 1006296

Lab ID: 1006296-17

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 09:41 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 09:41 PM
Surr: 2-Fluorobiphenyl	71.8		70-130	%REC	1	6/12/2010 09:41 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:23 AM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	6/18/2010 07:23 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/15/2010 09:00 PM
Toluene	ND		0.0010	mg/Kg	1	6/15/2010 09:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/15/2010 09:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/15/2010 09:00 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/15/2010 09:00 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/15/2010 09:00 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	12.3		4.98	mg/Kg	1	6/22/2010 11:07 AM
Surr: Selenate (surr)	98.6		85-115	%REC	1	6/22/2010 11:07 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 60'

Lab ID: 1006296-18

Collection Date: 6/5/2010 09:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:01 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:01 PM
Surr: 2-Fluorobiphenyl	87.7		70-130	%REC	1	6/12/2010 10:01 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:47 AM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/18/2010 07:47 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/15/2010 09:20 PM
Toluene	ND		0.0010	mg/Kg	1	6/15/2010 09:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/15/2010 09:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/15/2010 09:20 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/15/2010 09:20 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/15/2010 09:20 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	7.06		4.91	mg/Kg	1	6/21/2010 08:14 PM
Surr: Selenate (surr)	99.7		85-115	%REC	1	6/21/2010 08:14 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 70'

Collection Date: 6/5/2010 10:10 AM

Work Order: 1006296

Lab ID: 1006296-19

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:01 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:01 PM
Surr: 2-Fluorobiphenyl	78.0		70-130	%REC	1	6/12/2010 10:01 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 08:10 AM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	6/18/2010 08:10 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 01:45 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 01:45 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 01:45 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 01:45 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/16/2010 01:45 PM
Surr: Trifluorotoluene	105		73-130	%REC	1	6/16/2010 01:45 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	13.2		4.98	mg/Kg	1	6/22/2010 09:49 AM
Surr: Selenate (surr)	111		85-115	%REC	1	6/22/2010 09:49 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 80'

Collection Date: 6/5/2010 10:20 AM

Work Order: 1006296

Lab ID: 1006296-20

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:20 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:20 PM
Surr: 2-Fluorobiphenyl	86.1		70-130	%REC	1	6/12/2010 10:20 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 08:57 AM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	6/18/2010 08:57 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 02:04 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 02:04 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 02:04 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 02:04 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/16/2010 02:04 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/16/2010 02:04 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	14.6		4.95	mg/Kg	1	6/21/2010 08:44 PM
Surr: Selenate (surr)	101		85-115	%REC	1	6/21/2010 08:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 90'

Collection Date: 6/5/2010 10:30 AM

Work Order: 1006296

Lab ID: 1006296-21

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 11:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 11:57 PM
Surr: 2-Fluorobiphenyl	90.9		70-130	%REC	1	6/12/2010 11:57 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 09:20 AM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/18/2010 09:20 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 02:25 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 02:25 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 02:25 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 02:25 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/16/2010 02:25 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/16/2010 02:25 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	5.3		5.0	mg/Kg	1	6/16/2010 12:30 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 12:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 100'

Collection Date: 6/5/2010 10:40 AM

Work Order: 1006296

Lab ID: 1006296-22

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 12:16 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 12:16 AM
Surr: 2-Fluorobiphenyl	84.5		70-130	%REC	1	6/13/2010 12:16 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 09:43 AM
Surr: 4-Bromofluorobenzene	126		70-130	%REC	1	6/18/2010 09:43 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 02:45 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 02:45 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 02:45 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 02:45 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/16/2010 02:45 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/16/2010 02:45 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		5.0	mg/Kg	1	6/16/2010 01:35 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 01:35 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 105'

Collection Date: 6/5/2010 10:50 AM

Work Order: 1006296

Lab ID: 1006296-23

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 12:35 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 12:35 AM
Surr: 2-Fluorobiphenyl	83.4		70-130	%REC	1	6/13/2010 12:35 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 10:06 AM
Surr: 4-Bromofluorobenzene	88.0		70-130	%REC	1	6/18/2010 10:06 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 03:05 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 03:05 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 03:05 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 03:05 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/16/2010 03:05 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/16/2010 03:05 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	23		5.0	mg/Kg	1	6/16/2010 01:57 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 01:57 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 10'

Collection Date: 6/5/2010 03:05 PM

Work Order: 1006296

Lab ID: 1006296-24

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 12:56 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 12:56 AM
Surr: 2-Fluorobiphenyl	86.7		70-130	%REC	1	6/13/2010 12:56 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 04:50 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/18/2010 04:50 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 03:25 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 03:25 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 03:25 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 03:25 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/16/2010 03:25 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/16/2010 03:25 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	110		5.0	mg/Kg	1	6/16/2010 02:18 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 02:18 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 20'

Collection Date: 6/5/2010 03:30 PM

Work Order: 1006296

Lab ID: 1006296-25

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 01:15 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 01:15 AM
Surr: 2-Fluorobiphenyl	79.2		70-130	%REC	1	6/13/2010 01:15 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 05:13 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/18/2010 05:13 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 05:09 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 05:09 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 05:09 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 05:09 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/16/2010 05:09 PM
Surr: Trifluorotoluene	109		73-130	%REC	1	6/16/2010 05:09 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	11		5.0	mg/Kg	1	6/16/2010 02:40 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/16/2010 02:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 30

Collection Date: 6/5/2010 03:45 PM

Work Order: 1006296

Lab ID: 1006296-26

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 01:34 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 01:34 AM
Surr: 2-Fluorobiphenyl	82.8		70-130	%REC	1	6/13/2010 01:34 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 06:47 PM
Surr: 4-Bromofluorobenzene	94.0		70-130	%REC	1	6/18/2010 06:47 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 05:31 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 05:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 05:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 05:31 PM
Surr: 4-Bromofluorobenzene	118		75-131	%REC	1	6/16/2010 05:31 PM
Surr: Trifluorotoluene	108		73-130	%REC	1	6/16/2010 05:31 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	25		4.9	mg/Kg	1	6/16/2010 03:02 AM
Surr: Selenate (surr)	99.5		85-115	%REC	1	6/16/2010 03:02 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 40'

Lab ID: 1006296-27

Collection Date: 6/6/2010 06:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:20 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:20 PM
Surr: 2-Fluorobiphenyl	75.5		70-130	%REC	1	6/12/2010 10:20 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:11 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/18/2010 07:11 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 05:51 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 05:51 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 05:51 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 05:51 PM
Surr: 4-Bromofluorobenzene	118		75-131	%REC	1	6/16/2010 05:51 PM
Surr: Trifluorotoluene	106		73-130	%REC	1	6/16/2010 05:51 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	25		5.0	mg/Kg	1	6/16/2010 03:23 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/16/2010 03:23 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 50'

Collection Date: 6/6/2010 06:50 AM

Work Order: 1006296

Lab ID: 1006296-28

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:40 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:40 PM
Surr: 2-Fluorobiphenyl	86.2		70-130	%REC	1	6/12/2010 10:40 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:34 PM
Surr: 4-Bromofluorobenzene	95.7		70-130	%REC	1	6/18/2010 07:34 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 06:11 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 06:11 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 06:11 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 06:11 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/16/2010 06:11 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/16/2010 06:11 PM
ANIONS			E300			Analyst: DM
Chloride	ND		5.0	mg/Kg	1	6/16/2010 03:45 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 03:45 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 60'

Lab ID: 1006296-29

Collection Date: 6/6/2010 07:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:59 PM
Surr: 2-Fluorobiphenyl	87.6		70-130	%REC	1	6/12/2010 10:59 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 07:57 PM
Surr: 4-Bromofluorobenzene	94.8		70-130	%REC	1	6/18/2010 07:57 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 06:31 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 06:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 06:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 06:31 PM
Surr: 4-Bromofluorobenzene	115		75-131	%REC	1	6/16/2010 06:31 PM
Surr: Trifluorotoluene	105		73-130	%REC	1	6/16/2010 06:31 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	5.8		5.0	mg/Kg	1	6/16/2010 04:50 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 04:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 70'

Lab ID: 1006296-30

Collection Date: 6/6/2010 07:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 11:18 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 11:18 PM
Surr: 2-Fluorobiphenyl	70.5		70-130	%REC	1	6/12/2010 11:18 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 08:21 PM
Surr: 4-Bromofluorobenzene	99.7		70-130	%REC	1	6/18/2010 08:21 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 06:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 06:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 06:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 06:52 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	1	6/16/2010 06:52 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/16/2010 06:52 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	5.3		5.0	mg/Kg	1	6/16/2010 05:12 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/16/2010 05:12 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 80'

Lab ID: 1006296-31

Collection Date: 6/6/2010 07:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 11:38 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 11:38 PM
Surr: 2-Fluorobiphenyl	70.4		70-130	%REC	1	6/12/2010 11:38 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 08:44 PM
Surr: 4-Bromofluorobenzene	98.1		70-130	%REC	1	6/18/2010 08:44 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 07:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 07:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 07:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 07:12 PM
Surr: 4-Bromofluorobenzene	116		75-131	%REC	1	6/16/2010 07:12 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/16/2010 07:12 PM
ANIONS			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		5.0	mg/Kg	1	6/16/2010 05:34 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 05:34 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 90'

Collection Date: 6/6/2010 10:20 AM

Work Order: 1006296

Lab ID: 1006296-32

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 11:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 11:57 PM
Surr: 2-Fluorobiphenyl	76.7		70-130	%REC	1	6/12/2010 11:57 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 09:07 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/18/2010 09:07 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 07:10 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 07:10 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 07:10 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 07:10 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/17/2010 07:10 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/17/2010 07:10 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		4.9	mg/Kg	1	6/16/2010 05:55 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/16/2010 05:55 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 100'

Lab ID: 1006296-33

Collection Date: 6/6/2010 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 12:16 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 12:16 AM
Surr: 2-Fluorobiphenyl	71.7		70-130	%REC	1	6/13/2010 12:16 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 09:31 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/18/2010 09:31 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 07:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 07:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 07:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 07:52 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/16/2010 07:52 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/16/2010 07:52 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	ND		5.0	mg/Kg	1	6/16/2010 06:17 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/16/2010 06:17 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 105'

Collection Date: 6/6/2010 10:45 AM

Work Order: 1006296

Lab ID: 1006296-34

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/13/2010 12:35 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/13/2010 12:35 AM
Surr: 2-Fluorobiphenyl	73.1		70-130	%REC	1	6/13/2010 12:35 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/18/2010 09:54 PM
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	1	6/18/2010 09:54 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 08:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 08:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 08:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 08:12 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/16/2010 08:12 PM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/16/2010 08:12 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	26		5.0	mg/Kg	1	6/16/2010 06:39 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/16/2010 06:39 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: Trip Blank-052410-17

Lab ID: 1006296-35

Collection Date: 6/6/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/14/2010 06:57 PM
Toluene	ND		0.0010	mg/L	1	6/14/2010 06:57 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/14/2010 06:57 PM
Xylenes, Total	ND		0.0030	mg/L	1	6/14/2010 06:57 PM
Surr: 4-Bromofluorobenzene	113		77-129	%REC	1	6/14/2010 06:57 PM
Surr: Trifluorotoluene	84.8		75-130	%REC	1	6/14/2010 06:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43606** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS3-100610-43606** Units: **mg/Kg** Analysis Date: **6/22/2010 07:15 PM**

Client ID: Run ID: **FID-7_100610C** SeqNo: **2003453** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.633	0.10	3.33	0	109	70-130	0			

LCS Sample ID: **FLCSS3-100610-43606** Units: **mg/Kg** Analysis Date: **6/22/2010 07:34 PM**

Client ID: Run ID: **FID-7_100610C** SeqNo: **2003454** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.61	1.7	33.33	0	107	70-130	0			
TPH (Motor Oil Range)	33.56	3.4	33.33	0	101	70-130	0			
Surr: 2-Fluorobiphenyl	4.287	0.10	3.33	0	129	70-130	0			

MS Sample ID: **1006296-18BMS** Units: **mg/Kg** Analysis Date: **6/12/2010 08:43 PM**

Client ID: **MW-27 60'** Run ID: **FID-7_100610C** SeqNo: **2001811** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.57	1.7	33.3	0	82.8	70-130	0			
TPH (Motor Oil Range)	37.93	3.4	33.3	0.0548	114	70-130	0			
Surr: 2-Fluorobiphenyl	3.819	0.10	3.327	0	115	70-130	0			

MSD Sample ID: **1006296-18BMSD** Units: **mg/Kg** Analysis Date: **6/12/2010 09:03 PM**

Client ID: **MW-27 60'** Run ID: **FID-7_100610C** SeqNo: **2001812** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.86	1.7	33.29	0	89.7	70-130	27.57	7.95	30	
TPH (Motor Oil Range)	38.27	3.4	33.29	0.0548	115	70-130	37.93	0.909	30	
Surr: 2-Fluorobiphenyl	3.603	0.10	3.326	0	108	70-130	3.819	5.81	30	

The following samples were analyzed in this batch:

1006296-01B	1006296-02B	1006296-03B
1006296-04B	1006296-05B	1006296-06B
1006296-07B	1006296-08B	1006296-09B
1006296-10B	1006296-11B	1006296-12B
1006296-13B	1006296-14B	1006296-15B
1006296-16B	1006296-17B	1006296-18B
1006296-19B	1006296-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43613 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: Run ID: FID-8_100610B SeqNo: 2004197 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.499	0.10	3.33	0	105	70-130	0			

LCS Sample ID: FLCSS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: Run ID: FID-8_100610B SeqNo: 2004200 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.69	1.7	33.33	0	104	70-130	0			
TPH (Motor Oil Range)	33.74	3.4	33.33	0	101	70-130	0			
Surr: 2-Fluorobiphenyl	3.943	0.10	3.33	0	118	70-130	0			

MS Sample ID: 1006299-04BMS Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: Run ID: FID-8_100610B SeqNo: 2004225 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	44.18	1.7	33.3	19.18	75.1	70-130	0			
TPH (Motor Oil Range)	62.66	3.4	33.3	31.76	92.8	70-130	0			
Surr: 2-Fluorobiphenyl	2.763	0.10	3.327	0	83	70-130	0			

MSD Sample ID: 1006299-04BMSD Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: Run ID: FID-8_100610B SeqNo: 2004226 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	47.04	1.7	33.25	19.18	83.8	70-130	44.18	6.27	30	
TPH (Motor Oil Range)	68.46	3.4	33.25	31.76	110	70-130	62.66	8.84	30	E
Surr: 2-Fluorobiphenyl	2.969	0.10	3.322	0	89.4	70-130	2.763	7.19	30	

The following samples were analyzed in this batch:

1006296-21B	1006296-22B	1006296-23B
1006296-24B	1006296-25B	1006296-26B
1006296-27B	1006296-28B	1006296-29B
1006296-30B	1006296-31B	1006296-32B
1006296-33B	1006296-34B	

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92556 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061410-R92556 Units: µg/Kg Analysis Date: 6/14/2010 11:37 AM

Client ID: Run ID: BTEX3_100614A SeqNo: 1994895 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.81	1.0	30	0	103	75-131	0			
Surr: Trifluorotoluene	28.66	1.0	30	0	95.5	73-130	0			

LCS Sample ID: BLCSS1-061410-R92556 Units: µg/Kg Analysis Date: 6/14/2010 11:17 AM

Client ID: Run ID: BTEX3_100614A SeqNo: 1994894 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.28	1.0	20	0	111	74-129	0			
Toluene	22.62	1.0	20	0	113	75-128	0			
Ethylbenzene	21.23	1.0	20	0	106	73-127	0			
Xylenes, Total	66.43	3.0	60	0	111	74-127	0			
Surr: 4-Bromofluorobenzene	31.83	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	32.02	1.0	30	0	107	73-130	0			

MS Sample ID: 1006296-05AMS Units: µg/Kg Analysis Date: 6/14/2010 02:11 PM

Client ID: MW-25 50' Run ID: BTEX3_100614A SeqNo: 1994903 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.46	1.0	20	0	107	74-129	0			
Toluene	22.59	1.0	20	0	113	75-128	0			
Ethylbenzene	22.3	1.0	20	0	111	73-127	0			
Xylenes, Total	67.55	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	33.21	1.0	30	0	111	75-131	0			
Surr: Trifluorotoluene	30.71	1.0	30	0	102	73-130	0			

MSD Sample ID: 1006296-05AMSD Units: µg/Kg Analysis Date: 6/14/2010 02:31 PM

Client ID: MW-25 50' Run ID: BTEX3_100614A SeqNo: 1994904 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.02	1.0	20	0	105	74-129	21.46	2.09	30	
Toluene	22.11	1.0	20	0	111	75-128	22.59	2.14	30	
Ethylbenzene	21.9	1.0	20	0	110	73-127	22.3	1.79	30	
Xylenes, Total	66.68	3.0	60	0	111	74-127	67.55	1.29	30	
Surr: 4-Bromofluorobenzene	30.62	1.0	30	0	102	75-131	33.21	8.11	30	
Surr: Trifluorotoluene	29.23	1.0	30	0	97.4	73-130	30.71	4.93	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92556**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006296-01A	1006296-02A	1006296-03A
1006296-04A	1006296-05A	1006296-06A
1006296-07A	1006296-08A	1006296-09A
1006296-10A	1006296-11A	1006296-12A
1006296-13A	1006296-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92562 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW1-061410-R92562 Units: µg/L Analysis Date: 6/14/2010 11:57 AM

Client ID: Run ID: BTEX1_100614A SeqNo: 1994987 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	32.89	1.0	30	0	110	77-129	0			
Surr: Trifluorotoluene	26.44	1.0	30	0	88.1	75-130	0			

MBLK Sample ID: BBLKW1-061410-R92562 Units: µg/L Analysis Date: 6/14/2010 12:15 PM

Client ID: Run ID: BTEX1_100614A SeqNo: 1994988 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	33.87	1.0	30	0	113	77-129	0			
Surr: Trifluorotoluene	25.43	1.0	30	0	84.8	75-130	0			

LCS Sample ID: BLCSW1-061410-R92562 Units: µg/L Analysis Date: 6/14/2010 11:31 AM

Client ID: Run ID: BTEX1_100614A SeqNo: 1994986 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.6	1.0	20	0	93	77-126	0			
Toluene	16.59	1.0	20	0	82.9	80-124	0			
Ethylbenzene	18.01	1.0	20	0	90.1	76-125	0			
Xylenes, Total	52.29	3.0	60	0	87.1	79-124	0			
Surr: 4-Bromofluorobenzene	34.26	1.0	30	0	114	77-129	0			
Surr: Trifluorotoluene	26.43	1.0	30	0	88.1	75-130	0			

MS Sample ID: 1006372-03AMS Units: µg/L Analysis Date: 6/14/2010 07:32 PM

Client ID: Run ID: BTEX1_100614A SeqNo: 1995000 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.66	1.0	20	0	98.3	77-126	0			
Toluene	17.3	1.0	20	0	86.5	80-124	0			
Ethylbenzene	18.74	1.0	20	0	93.7	76-125	0			
Xylenes, Total	54.17	3.0	60	0	90.3	79-124	0			
Surr: 4-Bromofluorobenzene	34.9	1.0	30	0	116	77-129	0			
Surr: Trifluorotoluene	26.55	1.0	30	0	88.5	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92562** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1006372-03AMSD** Units: **µg/L** Analysis Date: **6/14/2010 07:50 PM**

Client ID: Run ID: **BTEX1_100614A** SeqNo: **1995001** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.24	1.0	20	0	101	77-126	19.66	2.88	20	
Toluene	17.17	1.0	20	0	85.9	80-124	17.3	0.727	20	
Ethylbenzene	18.34	1.0	20	0	91.7	76-125	18.74	2.15	20	
Xylenes, Total	53.36	3.0	60	0	88.9	79-124	54.17	1.51	20	
Surr: 4-Bromofluorobenzene	35.3	1.0	30	0	118	77-129	34.9	1.13	20	
Surr: Trifluorotoluene	27.12	1.0	30	0	90.4	75-130	26.55	2.11	20	

The following samples were analyzed in this batch:

1006296-35A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92708 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061510-R92708 Units: µg/Kg Analysis Date: 6/15/2010 11:12 AM

Client ID: Run ID: BTEX3_100615A SeqNo: 1998306 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	32.47	1.0	30	0	108	75-131	0			
Surr: Trifluorotoluene	30.32	1.0	30	0	101	73-130	0			

LCS Sample ID: BLCSS1-061510-R92708 Units: µg/Kg Analysis Date: 6/15/2010 11:32 AM

Client ID: Run ID: BTEX3_100615A SeqNo: 1998307 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.65	1.0	20	0	113	74-129	0			
Toluene	23.34	1.0	20	0	117	75-128	0			
Ethylbenzene	23.3	1.0	20	0	117	73-127	0			
Xylenes, Total	70.56	3.0	60	0	118	74-127	0			
Surr: 4-Bromofluorobenzene	33.04	1.0	30	0	110	75-131	0			
Surr: Trifluorotoluene	32.03	1.0	30	0	107	73-130	0			

MS Sample ID: 1006397-01AMS Units: µg/Kg Analysis Date: 6/15/2010 04:02 PM

Client ID: Run ID: BTEX3_100615A SeqNo: 1998314 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.35	1.0	20	0	112	74-129	0			
Toluene	22.5	1.0	20	0	112	75-128	0			
Ethylbenzene	22.32	1.0	20	0	112	73-127	0			
Xylenes, Total	67.99	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	32.08	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	31.67	1.0	30	0	106	73-130	0			

MSD Sample ID: 1006397-01AMSD Units: µg/Kg Analysis Date: 6/15/2010 04:22 PM

Client ID: Run ID: BTEX3_100615A SeqNo: 1998315 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.97	1.0	20	0	110	74-129	22.35	1.72	30	
Toluene	22.52	1.0	20	0	113	75-128	22.5	0.095	30	
Ethylbenzene	22.28	1.0	20	0	111	73-127	22.32	0.157	30	
Xylenes, Total	68.25	3.0	60	0	114	74-127	67.99	0.383	30	
Surr: 4-Bromofluorobenzene	33.73	1.0	30	0	112	75-131	32.08	5.02	30	
Surr: Trifluorotoluene	32.43	1.0	30	0	108	73-130	31.67	2.36	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92708** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1006296-15A	1006296-16A	1006296-17A
1006296-18A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92710 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:58 AM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998357 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.53	1.0	30	0	102	75-131	0			
Surr: Trifluorotoluene	31.04	1.0	30	0	103	73-130	0			

LCS Sample ID: BLCSS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:21 AM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998356 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.35	1.0	20	0	107	74-129	0			
Toluene	22.18	1.0	20	0	111	75-128	0			
Ethylbenzene	21.99	1.0	20	0	110	73-127	0			
Xylenes, Total	67.52	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	32.71	1.0	30	0	109	75-131	0			
Surr: Trifluorotoluene	31.03	1.0	30	0	103	73-130	0			

MS Sample ID: 1006296-24AMS Units: µg/Kg Analysis Date: 6/16/2010 03:48 PM

Client ID: MW-29 10' Run ID: BTEX3_100616A SeqNo: 1998395 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.52	1.0	20	0	113	74-129	0			
Toluene	22.93	1.0	20	0	115	75-128	0			
Ethylbenzene	22.37	1.0	20	0	112	73-127	0			
Xylenes, Total	68.98	3.0	60	0	115	74-127	0			
Surr: 4-Bromofluorobenzene	33.95	1.0	30	0	113	75-131	0			
Surr: Trifluorotoluene	32.48	1.0	30	0	108	73-130	0			

MSD Sample ID: 1006296-24AMSD Units: µg/Kg Analysis Date: 6/16/2010 04:08 PM

Client ID: MW-29 10' Run ID: BTEX3_100616A SeqNo: 1998396 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.86	1.0	20	0	109	74-129	22.52	2.97	30	
Toluene	22.79	1.0	20	0	114	75-128	22.93	0.628	30	
Ethylbenzene	23.01	1.0	20	0	115	73-127	22.37	2.79	30	
Xylenes, Total	70.21	3.0	60	0	117	74-127	68.98	1.76	30	
Surr: 4-Bromofluorobenzene	34.65	1.0	30	0	116	75-131	33.95	2.04	30	
Surr: Trifluorotoluene	32.03	1.0	30	0	107	73-130	32.48	1.4	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **R92710**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006296-19A	1006296-20A	1006296-21A
1006296-22A	1006296-23A	1006296-24A
1006296-25A	1006296-26A	1006296-27A
1006296-28A	1006296-29A	1006296-30A
1006296-31A	1006296-32A	1006296-33A
1006296-34A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92712 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061710-R92712 Units: µg/Kg Analysis Date: 6/17/2010 01:11 PM

Client ID: Run ID: BTEX3_100617A SeqNo: 1998400 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	31.27	1.0	30	0	104	75-131	0			
Surr: Trifluorotoluene	31.2	1.0	30	0	104	73-130	0			

LCS Sample ID: BLCSS1-061710-R92712 Units: µg/Kg Analysis Date: 6/17/2010 12:37 PM

Client ID: Run ID: BTEX3_100617A SeqNo: 1998399 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.83	1.0	20	0	104	74-129	0			
Toluene	22	1.0	20	0	110	75-128	0			
Ethylbenzene	21.85	1.0	20	0	109	73-127	0			
Xylenes, Total	65.89	3.0	60	0	110	74-127	0			
Surr: 4-Bromofluorobenzene	31.67	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	31.11	1.0	30	0	104	73-130	0			

MS Sample ID: 1006299-11AMS Units: µg/Kg Analysis Date: 6/17/2010 04:33 PM

Client ID: Run ID: BTEX3_100617A SeqNo: 1998410 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.39	1.0	20	0	107	74-129	0			
Toluene	22.97	1.0	20	0	115	75-128	0			
Ethylbenzene	22.26	1.0	20	0	111	73-127	0			
Xylenes, Total	67.88	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	32.16	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	31.3	1.0	30	0	104	73-130	0			

MSD Sample ID: 1006299-11AMSD Units: µg/Kg Analysis Date: 6/17/2010 04:53 PM

Client ID: Run ID: BTEX3_100617A SeqNo: 1998411 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.84	1.0	20	0	104	74-129	21.39	2.59	30	
Toluene	22.27	1.0	20	0	111	75-128	22.97	3.09	30	
Ethylbenzene	22.17	1.0	20	0	111	73-127	22.26	0.4	30	
Xylenes, Total	67.74	3.0	60	0	113	74-127	67.88	0.202	30	
Surr: 4-Bromofluorobenzene	32.48	1.0	30	0	108	75-131	32.16	0.988	30	
Surr: Trifluorotoluene	30.98	1.0	30	0	103	73-130	31.3	1.04	30	

The following samples were analyzed in this batch: 1006296-32A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92970 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061710-R92970 Units: mg/Kg Analysis Date: 6/17/2010 02:03 PM

Client ID: Run ID: FID-9_100617A SeqNo: 2004125 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1038	0.0050	0.1	0	104	70-130	0			

LCS Sample ID: GLCSS-061710-R92970 Units: mg/Kg Analysis Date: 6/17/2010 01:39 PM

Client ID: Run ID: FID-9_100617A SeqNo: 2004123 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.131	0.050	1	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	0.1061	0.0050	0.1	0	106	70-130	0			

MS Sample ID: 1006299-08BMS Units: mg/Kg Analysis Date: 6/17/2010 08:08 PM

Client ID: Run ID: FID-9_100617A SeqNo: 2004140 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.165	0.050	1	0	117	70-130	0			
Surr: 4-Bromofluorobenzene	0.1043	0.0050	0.1	0	104	70-130	0			

MSD Sample ID: 1006299-08BMSD Units: mg/Kg Analysis Date: 6/17/2010 08:31 PM

Client ID: Run ID: FID-9_100617A SeqNo: 2004141 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.138	0.050	1	0	114	70-130	1.165	2.35	30	
Surr: 4-Bromofluorobenzene	0.1067	0.0050	0.1	0	107	70-130	0.1043	2.31	30	

The following samples were analyzed in this batch:

1006296-03B

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92971 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061810-R92971 Units: mg/Kg Analysis Date: 6/18/2010 12:47 AM

Client ID: Run ID: FID-9_100617B SeqNo: 2004170 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1052	0.0050	0.1	0	105	70-130	0			

LCS Sample ID: GLCSS-061810-R92971 Units: mg/Kg Analysis Date: 6/18/2010 12:24 AM

Client ID: Run ID: FID-9_100617B SeqNo: 2004169 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.151	0.050	1	0	115	70-130	0			
Surr: 4-Bromofluorobenzene	0.1081	0.0050	0.1	0	108	70-130	0			

MS Sample ID: 1006296-09BMS Units: mg/Kg Analysis Date: 6/18/2010 03:30 AM

Client ID: MW-25 90' Run ID: FID-9_100617B SeqNo: 2004177 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.215	0.050	1	0	121	70-130	0			
Surr: 4-Bromofluorobenzene	0.1138	0.0050	0.1	0	114	70-130	0			

MSD Sample ID: 1006296-09BMSD Units: mg/Kg Analysis Date: 6/18/2010 03:54 AM

Client ID: MW-25 90' Run ID: FID-9_100617B SeqNo: 2004178 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.155	0.050	1	0	115	70-130	1.215	5.08	30	
Surr: 4-Bromofluorobenzene	0.1087	0.0050	0.1	0	109	70-130	0.1138	4.59	30	

The following samples were analyzed in this batch:

1006296-04B	1006296-05B	1006296-06B
1006296-07B	1006296-08B	1006296-09B
1006296-12B	1006296-13B	1006296-14B
1006296-15B	1006296-16B	1006296-17B
1006296-18B	1006296-19B	1006296-20B
1006296-21B	1006296-22B	1006296-23B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R92978 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061810-R92978 Units: mg/Kg Analysis Date: 6/18/2010 02:51 PM

Client ID: Run ID: FID-9_100618A SeqNo: 2004322 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1028	0.0050	0.1	0	103	70-130	0			

LCS Sample ID: GLCSS-061810-R92978 Units: mg/Kg Analysis Date: 6/18/2010 02:28 PM

Client ID: Run ID: FID-9_100618A SeqNo: 2004321 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.176	0.050	1	0	118	70-130	0			
Surr: 4-Bromofluorobenzene	0.1033	0.0050	0.1	0	103	70-130	0			

MS Sample ID: 1006296-25BMS Units: mg/Kg Analysis Date: 6/18/2010 05:37 PM

Client ID: MW-29 20' Run ID: FID-9_100618A SeqNo: 2004329 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.114	0.050	1	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	0.1032	0.0050	0.1	0	103	70-130	0			

MSD Sample ID: 1006296-25BMSD Units: mg/Kg Analysis Date: 6/18/2010 06:00 PM

Client ID: MW-29 20' Run ID: FID-9_100618A SeqNo: 2004330 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.148	0.050	1	0	115	70-130	1.114	2.98	30	
Surr: 4-Bromofluorobenzene	0.1069	0.0050	0.1	0	107	70-130	0.1032	3.47	30	

The following samples were analyzed in this batch:

1006296-01B	1006296-02B	1006296-10B
1006296-11B	1006296-24B	1006296-25B
1006296-26B	1006296-27B	1006296-28B
1006296-29B	1006296-30B	1006296-31B
1006296-32B	1006296-33B	1006296-34B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43615 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 12:02 PM

Client ID: Run ID: ICS2100_100621A SeqNo: 2002201 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	48.18	1.0	50	0	96.4	85-115	0			

LCS Sample ID: WLCSS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 11:41 AM

Client ID: Run ID: ICS2100_100621A SeqNo: 2002200 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	193.4	5.0	200	0	96.7	90-110	0			
Surr: Selenate (surr)	49.17	1.0	50	0	98.3	85-115	0			

LCSD Sample ID: WLCSDS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 12:17 PM

Client ID: Run ID: ICS2100_100621A SeqNo: 2002202 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	194.3	5.0	200	0	97.1	90-110	193.4	0.464	20	
Surr: Selenate (surr)	49.37	1.0	50	0	98.7	85-115	49.17	0.406	20	

MS Sample ID: 1006296-01BMS Units: mg/Kg Analysis Date: 6/21/2010 01:32 PM

Client ID: MW-25 10' Run ID: ICS2100_100621A SeqNo: 2002204 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	98.64	5.0	99.8	3.343	95.5	75-125	0			
Surr: Selenate (surr)	48.93	1.0	49.9	0	98.1	80-120	0			

MSD Sample ID: 1006296-01BMSD Units: mg/Kg Analysis Date: 6/21/2010 02:07 PM

Client ID: MW-25 10' Run ID: ICS2100_100621A SeqNo: 2002206 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.7	5.0	99.8	3.343	99.6	75-125	98.64	4.03	20	
Surr: Selenate (surr)	51.42	1.0	49.9	0	103	80-120	48.93	4.95	20	

DUP Sample ID: 1006296-20BDUP Units: mg/Kg Analysis Date: 6/21/2010 08:58 PM

Client ID: MW-27 80' Run ID: ICS2100_100621A SeqNo: 2002237 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.12	5.0	0	0	0	0-0	14.56	3.11	20	
Surr: Selenate (surr)	46.47	0.99	49.5	0	93.9	85-115	49.76	6.85	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43615** Instrument ID **ICS2100** Method: **E300**

The following samples were analyzed in this batch:

1006296-01B	1006296-02B	1006296-03B
1006296-04B	1006296-05B	1006296-06B
1006296-07B	1006296-08B	1006296-09B
1006296-10B	1006296-11B	1006296-12B
1006296-13B	1006296-14B	1006296-15B
1006296-16B	1006296-17B	1006296-18B
1006296-19B	1006296-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006296
 Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43617 Instrument ID ICS3000 Method: E300

MBLK	Sample ID: WBLKS1-061010-43617				Units: mg/Kg		Analysis Date: 6/15/2010 01:16 PM			
Client ID:	Run ID: ICS3000_100615B				SeqNo: 1996339		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2.86	5.0								J
<i>Surr: Selenate (surr)</i>	52.07	1.0	50	0	104	85-115	0			

LCSD	Sample ID: WLCSDS1-061010-43617				Units: mg/Kg		Analysis Date: 6/15/2010 01:59 PM			
Client ID:	Run ID: ICS3000_100615B				SeqNo: 1996341		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	188.7	5.0	200	0	94.4	90-110	0			
Surr: Selenate (surr)	50.25	1.0	50	0	100	85-115	0			

MS	Sample ID: 1006296-21BMS				Units: mg/Kg		Analysis Date: 6/16/2010 12:52 AM				
Client ID: MW-27 90'			Run ID: ICS3000_100615B			SeqNo:1996344		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	101.1	5.0	99.8	0	101	75-125	0				
Surr: Selenate (surr)	51.38	1.0	49.9	0	103	80-120	0				

MS	Sample ID: 1006296-34BMS				Units: mg/Kg		Analysis Date: 6/16/2010 07:00 AM			
Client ID: MW-29 105'		Run ID: ICS3000_100615B			SeqNo:1996399		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	122.8	5.0	99.01	0	124	75-125	0			
Surr: Selenate (surr)	51.15	0.99	49.5	0	103	80-120	0			

MSD	Sample ID: 1006296-21BMSD				Units: mg/Kg		Analysis Date: 6/16/2010 01:13 AM			
Client ID: MW-27 90'		Run ID: ICS3000_100615B			SeqNo:1996345		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	100.9	5.0	99.8	0	101	75-125	0			
Surr: Selenate (surr)	51.29	1.0	49.9	0	103	80-120	0			

MSD	Sample ID: 1006296-34BMSD				Units: mg/Kg		Analysis Date: 6/16/2010 07:22 AM				
Client ID: MW-29 105'			Run ID: ICS3000_100615B			SeqNo:1996400		Prep Date: 6/10/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	123.5	5.0	99.01	0	125	75-125	0				
Surr: Selenate (surr)	51.09	0.99	49.5	0	103	80-120	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006296
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: **43617** Instrument ID **ICS3000** Method: **E300**

The following samples were analyzed in this batch:

1006296-21B	1006296-22B	1006296-23B
1006296-24B	1006296-25B	1006296-26B
1006296-27B	1006296-29B	1006296-30B
1006296-31B	1006296-32B	1006296-33B
1006296-34B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-10

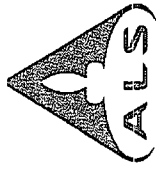
Client: Navajo Refining Company
Project: Lea Refinery New Wells
WorkOrder: 1006296

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



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Chain of Custody Form

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Page 1 of 4

Customer Information				Project Information				ALS Project Manager: <u>ALS Work Order #:</u> <u>100790</u>											
Purchase Order				Project Name				Parameter/Method Request for Analysis											
Work Order				Project Number				A				B				C			
Company Name				Navajo Refining Company				BTEX (8021)				GRO (8015M)				DRO (8015M)			
Send Report To				Darrell Moore				D				ORO (8015M)				Antions (300) CI			
Address				P.O. Box 159				E											
City/State/Zip				Artesia, NM 88211				F											
Phone				(505) 748-3311				G											
Fax				(505) 746-5421				H											
E-Mail Address				dghoyer@SES-NM.com				I											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-25 10'	6/4/18	1120	Soil	B	2	X	X	X	X	X								
2	MW-25 20'		1130																
3	MW-25 30'		1140																
4	MW-25 40'		1150																
5	MW-25 50'		1240																
6	MW-25 60'		1250																
7	MW-25 70'		1300																
8	MW-25 80'		1305																
9	MW-25 90'		1315																
10	MW-25 100'	6/4/18	1325	Soil	B	2	X	X	X	X	X								
Sampler(s) Please Print & Sign				Ship Method				Required Turnaround Time: (Check Box)				Results Due Date:							
D. Boyer				FedEx				1-2 Wk Days				1 Hour							
Relinquished by: <u>D. Boyer</u>				Date: <u>6/14/18</u> Time: <u>0800</u>				Received by: <u>MM</u>				Time: <u>0350</u>							
Relinquished by: <u>D. Boyer</u>				Date: <u>6/14/18</u> Time: <u>0800</u>				Received by: <u>MM</u>				Time: <u>0350</u>							
Logged by (Laboratory):				Date: <u>6/14/18</u> Time: <u>0800</u>				Checked by (Laboratory):				Date: <u>6/14/18</u> Time: <u>0350</u>							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SO ₃ 6-NaHSO ₃ 7-Other 8-4°C 9-5035																			

QC Package: (Check One Box Below)

☒ Level II Std OC ☐ TRRP Checklist

☐ Level III Std OC Row Data ☐ TRRP Level IV

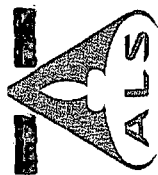
☐ Level IV SW346/CLP

☐ Other

Notes: 10 Day TAT. Co Dave Boyer

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
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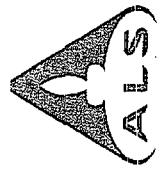
Chain of Custody Form

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Page 2 of 4

Customer Information				Project Information				ALS Project Manager: [Signature] ALS Work Order #: 1006296											
Purchase Order				Project Name				Parameter/Method Request for Analysis											
Work Order				Project Number				A BTEX (8021)											
Company Name				Bill to Company				B GRO (8015M)											
Send Report To				Invoice Attn				C DRO (8015M)											
Address				P.O. Box 159				D ORO (8015M)											
City/State/Zip				Artesia, NM 88211				E Anions (300) Cl											
Phone				(505) 748-3311				F											
Fax				(505) 748-5421				G											
e-Mail Address				dboyer@SESI-NM.com				H											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-25 10' 6/4/10 1330	501	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	MW-25 110' 6/4/10 1335																		
3	MW-27 10' 6/5/10 0850																		
4	20' 0900																		
5	30' 0905																		
6	40' 0915																		
7	50' 0935																		
8	60' 0945																		
9	70' 1010																		
10	MW-27 80' 6/5/10 1220	501	8	2	X	X	X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: [Signature]		Date: 6/8/10	Time: 0800	Relinquished by: [Signature]		Date: 6/8/10	Time: 0850
Sample(s) Please Print & Sign: D6-Boyer		Ship Method: FedEx		Required Turnaround Time: (Check Box) 5 Wk Days		Cooler Temp: 10 Day TAT. Co Dave Boyer	
Requisitioned by: [Signature]		Date: 6/8/10		Requisitioned by: [Signature]		Date: 6/8/10	
Logged by (Laboratory): [Signature]		Date: 6/8/10		Checked by (Laboratory): [Signature]		Date: 6/8/10	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SiO ₃ 6-NaHSO ₄ 7-Other: 8-4°C 9-5035		QC Package: (Check One Box Below)		Level II Std QC		Level III Std QC/RNW Data	
				Level IV SW846/CLP		Other	



ALS Laboratory Group
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Houston, Texas 77099
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Chain of Custody Form

Page 3 of 4

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Customer Information				Project Information				ALS Project Manager: <u>100190</u>											
Project Name:				Lea Refinery New Wells				Parameter/Method Request for Analysis											
Project Number:				NAV-10-003				A BTEX (8021)											
Bill To Company:				Navajo Refining Company				B GRO (8015M)											
Invoice Attn:				Darrell Moore				C DRO (8015M)											
Address:				P.O. Box 159				D QRO (8015M)											
City/State/Zip:				Artesia, NM 88211				E Antions (300) CI											
Phone:				(505) 748-3311				F											
Fax:				(505) 748-5421				G											
e-Mail Address:				dgmoyner@SES-NM.com				H											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-27 90'	6/5/10	1230	Soil	B	2	X	X	X	X	X	X	X	X	X	X	X		
2	MW-27 100'	6/5/10	1040	}															
3	MW-27 105'	6/5/10	1050																
4	MW-27 10'	6/5/10	1505																
5	MW-27 20'	6/5/10	1530																
6	MW-27 30'	6/5/10	1545	}															
7	MW-27 40'	6/6/10	0640																
8	MW-27 50'	6/6/10	0650																
9	MW-27 60'	6/6/10	0700	}															
10	MW-27 70'	6/6/10	0710																
Sampler(s) Please Print & Sign: <u>Boyer</u>							Required Turnaround Time: (Check Box) ☒ 10 Day TAT. ☐ 5 Day TAT. ☐ 3 Day TAT. ☐ 2 Day TAT. ☐ 1 Day TAT. ☐ Other												
Relinquished by: <u>Boyer</u>							Notes: 10 Day TAT. Cc Drive Boyer												
Relinquished by: <u>Boyer</u>							Results Due Date: <u>6/10</u>												
Date: <u>6/8/10</u> Time: <u>0800</u>							Cooler ID: <u>100190</u> Cooler Temp: <u>08:50</u>												
Date: <u>6/8/10</u> Time: <u>0800</u>							QC Packages (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC ☐ Level IV SW0346/CPL ☐ Other												
Date: <u>6/8/10</u> Time: <u>0800</u>							Logged by (Laboratory): <u>Boyer</u>												
Date: <u>6/8/10</u> Time: <u>0800</u>							Preservative Key: <u>1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O8 6-NaHSO4 7-Other 8-4°C 9-5035</u>												

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse of this form.
The undersigned is a duly authorized representative of the company and is authorized to execute this Chain of Custody Form on behalf of the company.

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ALS Laboratory Group

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **09-Jun-10 08:50**

Work Order: **1006296**

Received by: **RNG**

Checklist completed by Robert D. Harris
eSignature

09-Jun-10
Date

Reviewed by: _____
eSignature

Date

Matrices: soils/waters

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>2.2c, 1.8c</u>		<u>002</u>
Cooler(s)/Kit(s):	<u>3322, 2077</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:	_____		

Login Notes: Sample MW-29 60' sample bottles were not labeled; figure out which sample it was through process of elimination.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

1006246

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 869809950893Sender's Name D. ROYER Phone 575 350-706Company SESEAddress 703 E. ClintonCity Hobbs State NM ZIP 88240Our Internal Billing Reference NHV-82-002 332**ALS Laboratory**10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Group

CUSTODY SEAL 332Date: 6/8/10 Time: 0800
Name: D. ROYER
Company: SESE

Seal Broken By:

AVG

Date:

6/9/10**ALS Laboratory Group**10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

up

CUSTODY SEALDate: 6/8/10 Time: 0800
Name: D. ROYER
Company: SESE

Seal Broken By:

AVG

Date:

6/9/10

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 873133853497Sender's Name D. ROYER Phone 575 350-706Company SESEAddress 703 E. ClintonCity Hobbs State NM ZIP 88240Our Internal Billing Reference NHV-12-003 207**ALS Laboratory Group**10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Group

CUSTODY SEAL 207Date: 6/8/10 Time: 0800
Name: D. ROYER
Company: SESE

Seal Broken By:

AVG

Date:

6/9/10**ALS Laboratory**10450 Stancliff Rd., Suite 210
Houston, Texas 77099
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Fax. +1 281 530 5887

Group

CUSTODY SEALDate: 6/8/10 Time: 0800
Name: D. ROYER
Company: SESE

Seal Broken By:

AVG

Date:

6/9/10

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

18-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refining Soil Borings

Work Order: **1006150**

Dear Darrell,

ALS Laboratory Group received 35 samples on 04-Jun-2010 08:55 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 61.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Work Order: 1006150

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006150-01	CSB-1 1-2'	Soil		6/2/2010 14:40	6/4/2010 08:55	☐
1006150-02	CSB-1 10'	Soil		6/2/2010 14:50	6/4/2010 08:55	☐
1006150-03	CSB-1 20'	Soil		6/2/2010 15:00	6/4/2010 08:55	☐
1006150-04	CSB-1 30'	Soil		6/2/2010 15:05	6/4/2010 08:55	☐
1006150-05	CSB-1 40'	Soil		6/2/2010 15:10	6/4/2010 08:55	☐
1006150-06	CSB-1 50'	Soil		6/2/2010 15:20	6/4/2010 08:55	☐
1006150-07	CSB-1 60'	Soil		6/2/2010 15:50	6/4/2010 08:55	☐
1006150-08	CSB-1 70'	Soil		6/2/2010 16:05	6/4/2010 08:55	☐
1006150-09	CSB-1 80'	Soil		6/2/2010 16:15	6/4/2010 08:55	☐
1006150-10	CSB-1 90'	Soil		6/2/2010 16:30	6/4/2010 08:55	☐
1006150-11	CSB-1 100'	Soil		6/2/2010 16:30	6/4/2010 08:55	☐
1006150-12	CSB-1 110'	Soil		6/2/2010 16:40	6/4/2010 08:55	☐
1006150-13	CSB-2 10'	Soil		6/3/2010 07:45	6/4/2010 08:55	☐
1006150-14	CSB-2 20'	Soil		6/3/2010 08:10	6/4/2010 08:55	☐
1006150-15	CSB-2 30'	Soil		6/3/2010 08:20	6/4/2010 08:55	☐
1006150-16	CSB-2 40'	Soil		6/3/2010 08:25	6/4/2010 08:55	☐
1006150-17	CSB-2 50'	Soil		6/3/2010 08:35	6/4/2010 08:55	☐
1006150-18	CSB-2 60'	Soil		6/3/2010 08:45	6/4/2010 08:55	☐
1006150-19	CSB-2 70'	Soil		6/3/2010 08:50	6/4/2010 08:55	☐
1006150-20	CSB-2 80'	Soil		6/3/2010 09:10	6/4/2010 08:55	☐
1006150-21	CSB-2 90'	Soil		6/3/2010 09:20	6/4/2010 08:55	☐
1006150-22	CSB-2 100'	Soil		6/3/2010 09:30	6/4/2010 08:55	☐
1006150-23	CSB-2 110'	Soil		6/3/2010 09:40	6/4/2010 08:55	☐
1006150-24	CSB-3 10'	Soil		6/3/2010 13:10	6/4/2010 08:55	☐
1006150-25	CSB-3 20'	Soil		6/3/2010 13:20	6/4/2010 08:55	☐
1006150-26	CSB-3 30'	Soil		6/3/2010 13:30	6/4/2010 08:55	☐
1006150-27	CSB-3 40'	Soil		6/3/2010 13:40	6/4/2010 08:55	☐
1006150-28	CSB-3 50'	Soil		6/3/2010 13:45	6/4/2010 08:55	☐
1006150-29	CSB-3 60'	Soil		6/3/2010 13:55	6/4/2010 08:55	☐
1006150-30	CSB-3 70'	Soil		6/3/2010 14:00	6/4/2010 08:55	☐
1006150-32	CSB-3 80'	Soil		6/3/2010 14:10	6/4/2010 08:55	☐
1006150-33	CSB-3 90'	Soil		6/3/2010 14:20	6/4/2010 08:55	☐
1006150-34	CSB-3 100'	Soil		6/3/2010 14:30	6/4/2010 08:55	☐
1006150-35	CSB-3 110'	Soil		6/3/2010 14:40	6/4/2010 08:55	☐
1006150-36	Trip Blank 051710-27	Water		6/3/2010	6/4/2010 08:55	☐

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 1-2'

Collection Date: 6/2/2010 02:40 PM

Work Order: 1006150

Lab ID: 1006150-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	6.7		1.7	mg/Kg	1	6/8/2010 11:12 AM
TPH (Motor Oil Range)	27		3.4	mg/Kg	1	6/8/2010 11:12 AM
Surr: 2-Fluorobiphenyl	76.1		70-130	%REC	1	6/8/2010 11:12 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 12:44 AM
Surr: 4-Bromofluorobenzene	84.3		70-130	%REC	1	6/11/2010 12:44 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 01:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 01:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 01:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 01:04 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/10/2010 01:04 AM
Surr: Trifluorotoluene	98.1		73-130	%REC	1	6/10/2010 01:04 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	208		4.91	mg/Kg	1	6/8/2010 06:17 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/8/2010 06:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 10'

Lab ID: 1006150-02

Collection Date: 6/2/2010 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 11:31 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 11:31 AM
Surr: 2-Fluorobiphenyl	71.0		70-130	%REC	1	6/8/2010 11:31 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 01:07 AM
Surr: 4-Bromofluorobenzene	86.8		70-130	%REC	1	6/11/2010 01:07 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 02:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 02:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 02:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 02:04 AM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/10/2010 02:04 AM
Surr: Trifluorotoluene	99.4		73-130	%REC	1	6/10/2010 02:04 AM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	38.0		4.98	mg/Kg	1	6/8/2010 07:22 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/8/2010 07:22 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-1 20'
 Collection Date: 6/2/2010 03:00 PM

Work Order: 1006150
 Lab ID: 1006150-03
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 11:50 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 11:50 AM
Surr: 2-Fluorobiphenyl	71.7		70-130	%REC	1	6/8/2010 11:50 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 01:29 AM
Surr: 4-Bromofluorobenzene	82.9		70-130	%REC	1	6/11/2010 01:29 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 02:24 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 02:24 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 02:24 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 02:24 AM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/10/2010 02:24 AM
Surr: Trifluorotoluene	98.4		73-130	%REC	1	6/10/2010 02:24 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	11.5		4.99	mg/Kg	1	6/8/2010 07:44 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/8/2010 07:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 30'

Lab ID: 1006150-04

Collection Date: 6/2/2010 03:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:10 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:10 PM
Surr: 2-Fluorobiphenyl	71.0		70-130	%REC	1	6/8/2010 12:10 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 01:52 AM
Surr: 4-Bromofluorobenzene	84.6		70-130	%REC	1	6/11/2010 01:52 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 02:44 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 02:44 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 02:44 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 02:44 AM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/10/2010 02:44 AM
Surr: Trifluorotoluene	97.2		73-130	%REC	1	6/10/2010 02:44 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	11.1		5.00	mg/Kg	1	6/8/2010 08:06 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 08:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-1 40'
 Collection Date: 6/2/2010 03:10 PM

Work Order: 1006150
 Lab ID: 1006150-05
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:29 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:29 PM
Surr: 2-Fluorobiphenyl	70.9		70-130	%REC	1	6/8/2010 12:29 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 02:15 AM
Surr: 4-Bromofluorobenzene	83.8		70-130	%REC	1	6/11/2010 02:15 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 03:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 03:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 03:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 03:04 AM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/10/2010 03:04 AM
Surr: Trifluorotoluene	98.9		73-130	%REC	1	6/10/2010 03:04 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	12.2		5.00	mg/Kg	1	6/8/2010 08:28 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 08:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 50'

Lab ID: 1006150-06

Collection Date: 6/2/2010 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:48 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:48 PM
Surr: 2-Fluorobiphenyl	70.7		70-130	%REC	1	6/8/2010 12:48 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 02:37 AM
Surr: 4-Bromofluorobenzene	85.7		70-130	%REC	1	6/11/2010 02:37 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 03:24 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 03:24 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 03:24 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 03:24 AM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/10/2010 03:24 AM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	6/10/2010 03:24 AM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	15.8		4.97	mg/Kg	1	6/8/2010 08:49 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/8/2010 08:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 60'

Lab ID: 1006150-07

Collection Date: 6/2/2010 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/16/2010 03:01 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/16/2010 03:01 PM
Surr: 2-Fluorobiphenyl	79.1		70-130	%REC	1	6/16/2010 03:01 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 08:13 PM
Surr: 4-Bromofluorobenzene	88.7		70-130	%REC	1	6/11/2010 08:13 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 03:44 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 03:44 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 03:44 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 03:44 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/10/2010 03:44 AM
Surr: Trifluorotoluene	96.8		73-130	%REC	1	6/10/2010 03:44 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	15.0		4.94	mg/Kg	1	6/8/2010 09:54 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/8/2010 09:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 70'

Collection Date: 6/2/2010 04:05 PM

Work Order: 1006150

Lab ID: 1006150-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/16/2010 05:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/16/2010 05:36 PM
Surr: 2-Fluorobiphenyl	76.9		70-130	%REC	1	6/16/2010 05:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 08:36 PM
Surr: 4-Bromofluorobenzene	89.1		70-130	%REC	1	6/11/2010 08:36 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 04:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 04:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 04:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 04:04 AM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/10/2010 04:04 AM
Surr: Trifluorotoluene	99.6		73-130	%REC	1	6/10/2010 04:04 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	14.7		4.99	mg/Kg	1	6/8/2010 10:16 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 10:16 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 80'

Lab ID: 1006150-09

Collection Date: 6/2/2010 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:47 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:47 PM
Surr: 2-Fluorobiphenyl	70.5		70-130	%REC	1	6/8/2010 01:47 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 08:59 PM
Surr: 4-Bromofluorobenzene	87.6		70-130	%REC	1	6/11/2010 08:59 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 04:24 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 04:24 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 04:24 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 04:24 AM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/10/2010 04:24 AM
Surr: Trifluorotoluene	98.6		73-130	%REC	1	6/10/2010 04:24 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	19.0		4.97	mg/Kg	1	6/8/2010 10:38 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 10:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 90'

Lab ID: 1006150-10

Collection Date: 6/2/2010 04:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 03:23 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 03:23 PM
Surr: 2-Fluorobiphenyl	71.3		70-130	%REC	1	6/8/2010 03:23 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 09:22 PM
Surr: 4-Bromofluorobenzene	87.0		70-130	%REC	1	6/11/2010 09:22 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 04:44 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 04:44 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 04:44 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 04:44 AM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1	6/10/2010 04:44 AM
Surr: Trifluorotoluene	97.4		73-130	%REC	1	6/10/2010 04:44 AM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.18		4.98	mg/Kg	1	6/8/2010 10:59 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 10:59 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 100'

Lab ID: 1006150-11

Collection Date: 6/2/2010 04:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 06:18 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 06:18 PM
Surr: 2-Fluorobiphenyl	74.0		70-130	%REC	1	6/8/2010 06:18 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 09:45 PM
Surr: 4-Bromofluorobenzene	87.0		70-130	%REC	1	6/11/2010 09:45 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 05:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 05:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 05:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 05:04 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/10/2010 05:04 AM
Surr: Trifluorotoluene	97.6		73-130	%REC	1	6/10/2010 05:04 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.63		4.91	mg/Kg	1	6/8/2010 11:21 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/8/2010 11:21 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-1 110'
 Collection Date: 6/2/2010 04:40 PM

Work Order: 1006150
 Lab ID: 1006150-12
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/16/2010 03:40 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/16/2010 03:40 PM
Surr: 2-Fluorobiphenyl	82.6		70-130	%REC	1	6/16/2010 03:40 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 10:07 PM
Surr: 4-Bromofluorobenzene	84.9		70-130	%REC	1	6/11/2010 10:07 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:04 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:04 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:04 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:04 AM
Surr: 4-Bromofluorobenzene	99.3		75-131	%REC	1	6/10/2010 06:04 AM
Surr: Trifluorotoluene	95.4		73-130	%REC	1	6/10/2010 06:04 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	14.6		4.96	mg/Kg	1	6/8/2010 11:43 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/8/2010 11:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 10'

Collection Date: 6/3/2010 07:45 AM

Work Order: 1006150

Lab ID: 1006150-13

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 06:57 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 06:57 PM
Surr: 2-Fluorobiphenyl	76.1		70-130	%REC	1	6/8/2010 06:57 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 10:30 PM
Surr: 4-Bromofluorobenzene	90.6		70-130	%REC	1	6/11/2010 10:30 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:24 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:24 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:24 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:24 AM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/10/2010 06:24 AM
Surr: Trifluorotoluene	99.1		73-130	%REC	1	6/10/2010 06:24 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.14		4.96	mg/Kg	1	6/9/2010 12:05 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 12:05 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: CSB-2 20'
Collection Date: 6/3/2010 08:10 AM

Work Order: 1006150
Lab ID: 1006150-14
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 07:16 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 07:16 PM
Surr: 2-Fluorobiphenyl	76.5		70-130	%REC	1	6/8/2010 07:16 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 10:53 PM
Surr: 4-Bromofluorobenzene	87.3		70-130	%REC	1	6/11/2010 10:53 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:43 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:43 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:43 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:43 AM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/10/2010 06:43 AM
Surr: Trifluorotoluene	96.8		73-130	%REC	1	6/10/2010 06:43 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.19		4.99	mg/Kg	1	6/9/2010 12:26 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 12:26 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-2 30'
 Collection Date: 6/3/2010 08:20 AM

Work Order: 1006150
 Lab ID: 1006150-15
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 07:35 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 07:35 PM
Surr: 2-Fluorobiphenyl	77.1		70-130	%REC	1	6/8/2010 07:35 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 11:16 PM
Surr: 4-Bromofluorobenzene	86.9		70-130	%REC	1	6/11/2010 11:16 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 07:03 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 07:03 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 07:03 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 07:03 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/10/2010 07:03 AM
Surr: Trifluorotoluene	98.5		73-130	%REC	1	6/10/2010 07:03 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.28		4.97	mg/Kg	1	6/9/2010 12:48 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 12:48 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: CSB-2 40'
Collection Date: 6/3/2010 08:25 AM

Work Order: 1006150
Lab ID: 1006150-16
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 07:55 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 07:55 PM
Surr: 2-Fluorobiphenyl	89.9		70-130	%REC	1	6/8/2010 07:55 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/11/2010 11:39 PM
Surr: 4-Bromofluorobenzene	85.8		70-130	%REC	1	6/11/2010 11:39 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 07:23 AM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 07:23 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 07:23 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 07:23 AM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/10/2010 07:23 AM
Surr: Trifluorotoluene	98.2		73-130	%REC	1	6/10/2010 07:23 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	8.42		4.91	mg/Kg	1	6/9/2010 01:10 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 01:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 50'

Collection Date: 6/3/2010 08:35 AM

Work Order: 1006150

Lab ID: 1006150-17

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 08:14 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 08:14 PM
Surr: 2-Fluorobiphenyl	86.3		70-130	%REC	1	6/8/2010 08:14 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 12:47 AM
Surr: 4-Bromofluorobenzene	89.1		70-130	%REC	1	6/12/2010 12:47 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 05:26 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 05:26 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 05:26 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 05:26 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/10/2010 05:26 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/10/2010 05:26 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.83		4.98	mg/Kg	1	6/9/2010 02:15 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 02:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 60'

Lab ID: 1006150-18

Collection Date: 6/3/2010 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 08:34 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 08:34 PM
Surr: 2-Fluorobiphenyl	77.7		70-130	%REC	1	6/8/2010 08:34 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 01:10 AM
Surr: 4-Bromofluorobenzene	86.2		70-130	%REC	1	6/12/2010 01:10 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 05:46 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 05:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 05:46 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 05:46 PM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/10/2010 05:46 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/10/2010 05:46 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.99		4.98	mg/Kg	1	6/9/2010 02:36 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 02:36 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-2 70'
 Collection Date: 6/3/2010 08:50 AM

Work Order: 1006150
 Lab ID: 1006150-19
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/16/2010 03:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/16/2010 03:59 PM
Surr: 2-Fluorobiphenyl	84.0		70-130	%REC	1	6/16/2010 03:59 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 01:33 AM
Surr: 4-Bromofluorobenzene	88.5		70-130	%REC	1	6/12/2010 01:33 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:07 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	1	6/10/2010 06:07 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/10/2010 06:07 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.85		4.98	mg/Kg	1	6/9/2010 02:58 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 02:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 80'

Lab ID: 1006150-20

Collection Date: 6/3/2010 09:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 07:16 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 07:16 PM
Surr: 2-Fluorobiphenyl	70.4		70-130	%REC	1	6/8/2010 07:16 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 01:55 AM
Surr: 4-Bromofluorobenzene	89.9		70-130	%REC	1	6/12/2010 01:55 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:27 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/10/2010 06:27 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/10/2010 06:27 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	15.1		4.95	mg/Kg	1	6/9/2010 03:20 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/9/2010 03:20 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 90'

Lab ID: 1006150-21

Collection Date: 6/3/2010 09:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 11:12 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 11:12 AM
Surr: 2-Fluorobiphenyl	73.0		70-130	%REC	1	6/8/2010 11:12 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 02:18 AM
Surr: 4-Bromofluorobenzene	87.9		70-130	%REC	1	6/12/2010 02:18 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 06:46 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 06:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 06:46 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 06:46 PM
Surr: 4-Bromofluorobenzene	111		75-131	%REC	1	6/10/2010 06:46 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/10/2010 06:46 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	12.7		4.95	mg/Kg	1	6/9/2010 11:57 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 11:57 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-2 100'
 Collection Date: 6/3/2010 09:30 AM

Work Order: 1006150
 Lab ID: 1006150-22
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 11:31 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 11:31 AM
Surr: 2-Fluorobiphenyl	78.5		70-130	%REC	1	6/8/2010 11:31 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 02:41 AM
Surr: 4-Bromofluorobenzene	83.3		70-130	%REC	1	6/12/2010 02:41 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 07:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 07:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 07:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 07:07 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/10/2010 07:07 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/10/2010 07:07 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.52		4.93	mg/Kg	1	6/9/2010 01:02 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 01:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-2 110'
 Collection Date: 6/3/2010 09:40 AM

Work Order: 1006150
 Lab ID: 1006150-23
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 11:50 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 11:50 AM
Surr: 2-Fluorobiphenyl	70.9		70-130	%REC	1	6/8/2010 11:50 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 03:03 AM
Surr: 4-Bromofluorobenzene	88.3		70-130	%REC	1	6/12/2010 03:03 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 07:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 07:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 07:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 07:27 PM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/10/2010 07:27 PM
Surr: Trifluorotoluene	95.1		73-130	%REC	1	6/10/2010 07:27 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	22.1		4.99	mg/Kg	1	6/9/2010 01:24 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 01:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 10'

Lab ID: 1006150-24

Collection Date: 6/3/2010 01:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:10 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:10 PM
Surr: 2-Fluorobiphenyl	71.5		70-130	%REC	1	6/8/2010 12:10 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 03:26 AM
Surr: 4-Bromofluorobenzene	88.7		70-130	%REC	1	6/12/2010 03:26 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 07:46 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 07:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 07:46 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 07:46 PM
Surr: 4-Bromofluorobenzene	109		75-131	%REC	1	6/10/2010 07:46 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/10/2010 07:46 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.12		4.92	mg/Kg	1	6/9/2010 01:46 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 01:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 20'
 Collection Date: 6/3/2010 01:20 PM

Work Order: 1006150
 Lab ID: 1006150-25
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:29 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:29 PM
Surr: 2-Fluorobiphenyl	70.5		70-130	%REC	1	6/8/2010 12:29 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/12/2010 03:49 AM
Surr: 4-Bromofluorobenzene	88.0		70-130	%REC	1	6/12/2010 03:49 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 08:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 08:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 08:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 08:47 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/10/2010 08:47 PM
Surr: Trifluorotoluene	97.1		73-130	%REC	1	6/10/2010 08:47 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	5.65		4.96	mg/Kg	1	6/9/2010 02:08 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 02:08 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 30'

Lab ID: 1006150-26

Collection Date: 6/3/2010 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 12:48 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 12:48 PM
Surr: 2-Fluorobiphenyl	73.2		70-130	%REC	1	6/8/2010 12:48 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 12:48 PM
Surr: 4-Bromofluorobenzene	92.2		70-130	%REC	1	6/14/2010 12:48 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 09:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 09:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 09:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 09:07 PM
Surr: 4-Bromofluorobenzene	98.1		75-131	%REC	1	6/10/2010 09:07 PM
Surr: Trifluorotoluene	93.1		73-130	%REC	1	6/10/2010 09:07 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.14		5.00	mg/Kg	1	6/9/2010 02:29 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 02:29 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 40'
 Collection Date: 6/3/2010 01:40 PM

Work Order: 1006150
 Lab ID: 1006150-27
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:08 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:08 PM
Surr: 2-Fluorobiphenyl	71.2		70-130	%REC	1	6/8/2010 01:08 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 01:11 PM
Surr: 4-Bromofluorobenzene	94.0		70-130	%REC	1	6/14/2010 01:11 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 09:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 09:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 09:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 09:27 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/10/2010 09:27 PM
Surr: Trifluorotoluene	96.3		73-130	%REC	1	6/10/2010 09:27 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	10.4		4.94	mg/Kg	1	6/9/2010 03:34 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 03:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 50'

Lab ID: 1006150-28

Collection Date: 6/3/2010 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:27 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:27 PM
Surr: 2-Fluorobiphenyl	75.0		70-130	%REC	1	6/8/2010 01:27 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 01:34 PM
Surr: 4-Bromofluorobenzene	94.0		70-130	%REC	1	6/14/2010 01:34 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 09:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 09:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 09:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 09:47 PM
Surr: 4-Bromofluorobenzene	98.3		75-131	%REC	1	6/10/2010 09:47 PM
Surr: Trifluorotoluene	93.4		73-130	%REC	1	6/10/2010 09:47 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.68		4.97	mg/Kg	1	6/9/2010 03:56 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 03:56 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 60'
 Collection Date: 6/3/2010 01:55 PM

Work Order: 1006150
 Lab ID: 1006150-29
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 01:47 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 01:47 PM
Surr: 2-Fluorobiphenyl	75.0		70-130	%REC	1	6/8/2010 01:47 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 01:57 PM
Surr: 4-Bromofluorobenzene	92.2		70-130	%REC	1	6/14/2010 01:57 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 11:26 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 11:26 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 11:26 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 11:26 PM
Surr: 4-Bromofluorobenzene	95.3		75-131	%REC	1	6/10/2010 11:26 PM
Surr: Trifluorotoluene	91.1		73-130	%REC	1	6/10/2010 11:26 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	8.61		4.91	mg/Kg	1	6/9/2010 04:18 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 04:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 70'

Lab ID: 1006150-30

Collection Date: 6/3/2010 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 03:23 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 03:23 PM
Surr: 2-Fluorobiphenyl	75.3		70-130	%REC	1	6/8/2010 03:23 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 02:20 PM
Surr: 4-Bromofluorobenzene	95.1		70-130	%REC	1	6/14/2010 02:20 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 11:46 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 11:46 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 11:46 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 11:46 PM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1	6/10/2010 11:46 PM
Surr: Trifluorotoluene	93.3		73-130	%REC	1	6/10/2010 11:46 PM
ANIONS			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	8.12		4.98	mg/Kg	1	6/9/2010 04:39 PM
Surr: Selenate (surr)	105		85-115	%REC	1	6/9/2010 04:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 80'
 Collection Date: 6/3/2010 02:10 PM

Work Order: 1006150
 Lab ID: 1006150-32
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 06:18 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 06:18 PM
Surr: 2-Fluorobiphenyl	72.1		70-130	%REC	1	6/8/2010 06:18 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 04:01 PM
Surr: 4-Bromofluorobenzene	94.4		70-130	%REC	1	6/14/2010 04:01 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/11/2010 12:06 AM
Toluene	ND		0.0010	mg/Kg	1	6/11/2010 12:06 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/11/2010 12:06 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/11/2010 12:06 AM
Surr: 4-Bromofluorobenzene	95.7		75-131	%REC	1	6/11/2010 12:06 AM
Surr: Trifluorotoluene	92.3		73-130	%REC	1	6/11/2010 12:06 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	8.34		4.99	mg/Kg	1	6/9/2010 05:01 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 05:01 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 90'
 Collection Date: 6/3/2010 02:20 PM

Work Order: 1006150
 Lab ID: 1006150-33
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 06:37 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 06:37 PM
Surr: 2-Fluorobiphenyl	76.8		70-130	%REC	1	6/8/2010 06:37 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 04:24 PM
Surr: 4-Bromofluorobenzene	91.5		70-130	%REC	1	6/14/2010 04:24 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/11/2010 12:26 AM
Toluene	ND		0.0010	mg/Kg	1	6/11/2010 12:26 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/11/2010 12:26 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/11/2010 12:26 AM
Surr: 4-Bromofluorobenzene	93.7		75-131	%REC	1	6/11/2010 12:26 AM
Surr: Trifluorotoluene	90.0		73-130	%REC	1	6/11/2010 12:26 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	7.83		4.99	mg/Kg	1	6/9/2010 05:23 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/9/2010 05:23 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 100'
 Collection Date: 6/3/2010 02:30 PM

Work Order: 1006150
 Lab ID: 1006150-34
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 08:14 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 08:14 PM
Surr: 2-Fluorobiphenyl	72.9		70-130	%REC	1	6/8/2010 08:14 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 04:47 PM
Surr: 4-Bromofluorobenzene	91.8		70-130	%REC	1	6/14/2010 04:47 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/11/2010 12:46 AM
Toluene	ND		0.0010	mg/Kg	1	6/11/2010 12:46 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/11/2010 12:46 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/11/2010 12:46 AM
Surr: 4-Bromofluorobenzene	94.1		75-131	%REC	1	6/11/2010 12:46 AM
Surr: Trifluorotoluene	92.6		73-130	%REC	1	6/11/2010 12:46 AM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	6.14		4.96	mg/Kg	1	6/9/2010 05:45 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 05:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: CSB-3 110'
 Collection Date: 6/3/2010 02:40 PM

Work Order: 1006150
 Lab ID: 1006150-35
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/7/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/8/2010 08:53 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/8/2010 08:53 PM
Surr: 2-Fluorobiphenyl	82.7		70-130	%REC	1	6/8/2010 08:53 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/14/2010 05:10 PM
Surr: 4-Bromofluorobenzene	91.2		70-130	%REC	1	6/14/2010 05:10 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/10/2010 05:06 PM
Toluene	ND		0.0010	mg/Kg	1	6/10/2010 05:06 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/10/2010 05:06 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/10/2010 05:06 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	1	6/10/2010 05:06 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/10/2010 05:06 PM
ANIONS						
			E300		Prep Date: 6/7/2010	Analyst: IGF
Chloride	26.5		4.99	mg/Kg	1	6/9/2010 06:06 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/9/2010 06:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: Trip Blank 051710-27

Collection Date: 6/3/2010

Work Order: 1006150

Lab ID: 1006150-36

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/4/2010 10:18 PM
Toluene	ND		0.0010	mg/L	1	6/4/2010 10:18 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/4/2010 10:18 PM
Xylenes, Total	ND		0.0030	mg/L	1	6/4/2010 10:18 PM
Surr: 4-Bromofluorobenzene	110		77-129	%REC	1	6/4/2010 10:18 PM
Surr: Trifluorotoluene	108		75-130	%REC	1	6/4/2010 10:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **43488** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS2-100607-43488** Units: **mg/Kg** Analysis Date: **6/8/2010 10:33 AM**

Client ID: Run ID: **FID-8_100607A** SeqNo: **1996993** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.088	0.10	3.33	0	92.7	70-130	0			

LCS Sample ID: **FLCSS2-100607-43488** Units: **mg/Kg** Analysis Date: **6/8/2010 10:52 AM**

Client ID: Run ID: **FID-8_100607A** SeqNo: **1996994** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	24.28	1.7	33.33	0	72.8	70-130	0			
TPH (Motor Oil Range)	27.13	3.4	33.33	0	81.4	70-130	0			
Surr: 2-Fluorobiphenyl	3.149	0.10	3.33	0	94.6	70-130	0			

MS Sample ID: **1006150-20BMS** Units: **mg/Kg** Analysis Date: **6/8/2010 07:35 PM**

Client ID: **CSB-2 80'** Run ID: **FID-8_100607A** SeqNo: **1997009** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.67	1.7	33.29	0	83.1	70-130	0			
TPH (Motor Oil Range)	35.4	3.4	33.29	0.1206	106	70-130	0			
Surr: 2-Fluorobiphenyl	3.13	0.10	3.326	0	94.1	70-130	0			

MSD Sample ID: **1006150-20BMSD** Units: **mg/Kg** Analysis Date: **6/8/2010 07:55 PM**

Client ID: **CSB-2 80'** Run ID: **FID-8_100607A** SeqNo: **1997010** Prep Date: **6/7/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	30.43	1.7	33.32	0	91.3	70-130	27.67	9.49	30	
TPH (Motor Oil Range)	34.46	3.4	33.32	0.1206	103	70-130	35.4	2.68	30	
Surr: 2-Fluorobiphenyl	2.503	0.10	3.329	0	75.2	70-130	3.13	22.3	30	

The following samples were analyzed in this batch:

1006150-01B	1006150-02B	1006150-03B
1006150-04B	1006150-05B	1006150-06B
1006150-07B	1006150-08B	1006150-09B
1006150-10B	1006150-11B	1006150-12B
1006150-13B	1006150-14B	1006150-15B
1006150-16B	1006150-17B	1006150-18B
1006150-19B	1006150-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 43490 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100607-43490 Units: mg/Kg Analysis Date: 6/8/2010 10:33 AM

Client ID: Run ID: FID-7_100607A SeqNo: 1996704 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.028	0.10	3.33	0	90.9	70-130	0			

LCS Sample ID: FLCSS3-100607-43490 Units: mg/Kg Analysis Date: 6/8/2010 10:52 AM

Client ID: Run ID: FID-7_100607A SeqNo: 1996663 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.89	1.7	33.33	0	98.7	70-130	0			
TPH (Motor Oil Range)	36.07	3.4	33.33	0	108	70-130	0			
Surr: 2-Fluorobiphenyl	3.752	0.10	3.33	0	113	70-130	0			

MS Sample ID: 1006150-34BMS Units: mg/Kg Analysis Date: 6/8/2010 08:34 PM

Client ID: CSB-3 100' Run ID: FID-7_100607A SeqNo: 1996694 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.96	1.7	33.26	0	99.1	70-130	0			
TPH (Motor Oil Range)	38.71	3.4	33.26	0.3238	115	70-130	0			
Surr: 2-Fluorobiphenyl	2.904	0.10	3.323	0	87.4	70-130	0			

MSD Sample ID: 1006150-34BMSD Units: mg/Kg Analysis Date: 6/8/2010 08:53 PM

Client ID: CSB-3 100' Run ID: FID-7_100607A SeqNo: 1996695 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.33	1.7	33.23	0	82.2	70-130	32.96	18.7	30	
TPH (Motor Oil Range)	30.59	3.4	33.23	0.3238	91.1	70-130	38.71	23.4	30	
Surr: 2-Fluorobiphenyl	2.582	0.10	3.32	0	77.8	70-130	2.904	11.7	30	

The following samples were analyzed in this batch:

1006150-21B	1006150-22B	1006150-23B
1006150-24B	1006150-25B	1006150-26B
1006150-27B	1006150-28B	1006150-29B
1006150-30B	1006150-32B	1006150-33B
1006150-34B	1006150-35B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:36 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983431 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	35.78	1.0	30	0	119	77-129	0			
Surr: Trifluorotoluene	35.33	1.0	30	0	118	75-130	0			

MBLK Sample ID: MEOHW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:56 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983432 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	35.3	1.0	30	0	118	77-129	0			
Surr: Trifluorotoluene	33.88	1.0	30	0	113	75-130	0			

LCS Sample ID: BLCSW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 02:41 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1988340 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.38	1.0	20	0	96.9	77-126	0			
Toluene	19.18	1.0	20	0	95.9	80-124	0			
Ethylbenzene	19.59	1.0	20	0	98	76-125	0			
Xylenes, Total	57.56	3.0	60	0	95.9	79-124	0			
Surr: 4-Bromofluorobenzene	34.36	1.0	30	0	115	77-129	0			
Surr: Trifluorotoluene	33.47	1.0	30	0	112	75-130	0			

MS Sample ID: 1006099-01AMS Units: µg/L Analysis Date: 6/4/2010 09:19 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983442 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	203.4	10	200	0	102	77-126	0			
Toluene	201.2	10	200	0	101	80-124	0			
Ethylbenzene	199.8	10	200	0	99.9	76-125	0			
Xylenes, Total	598.2	30	600	0	99.7	79-124	0			
Surr: 4-Bromofluorobenzene	350.7	10	300	0	117	77-129	0			
Surr: Trifluorotoluene	343	10	300	0	114	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MSD Sample ID: 1006099-01AMSD Units: µg/L Analysis Date: 6/4/2010 09:39 PM

Client ID: Run ID: BTEX3_100604A SeqNo: 1983443 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	197.7	10	200	0	98.9	77-126	203.4	2.84	20	
Toluene	195.8	10	200	0	97.9	80-124	201.2	2.73	20	
Ethylbenzene	197.1	10	200	0	98.5	76-125	199.8	1.39	20	
Xylenes, Total	589.4	30	600	0	98.2	79-124	598.2	1.49	20	
Surr: 4-Bromofluorobenzene	352.7	10	300	0	118	77-129	350.7	0.583	20	
Surr: Trifluorotoluene	350.3	10	300	0	117	75-130	343	2.1	20	

The following samples were analyzed in this batch: 1006150-36A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92295 Instrument ID BTEX3 Method: SW8021B

MBLK	Sample ID: BBLKS1-061010-R92295				Units: µg/Kg		Analysis Date: 6/9/2010 10:44 PM			
Client ID:	Run ID: BTEX3_100609B				SeqNo: 1989983		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.32	1.0	30	0	97.7	75-131	0			
Surr: Trifluorotoluene	29.07	1.0	30	0	96.9	73-130	0			

LCS	Sample ID: BLCSS1-061010-R92295					Units: µg/Kg		Analysis Date: 6/9/2010 10:04 PM		
Client ID:	Run ID: BTEX3_100609B				SeqNo: 1989982		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.28	1.0	20	0	101	74-129	0			
Toluene	21.36	1.0	20	0	107	75-128	0			
Ethylbenzene	20.91	1.0	20	0	105	73-127	0			
Xylenes, Total	63.96	3.0	60	0	107	74-127	0			
Surr: 4-Bromofluorobenzene	31.48	1.0	30	0	105	75-131	0			
Surr: Trifluorotoluene	29.03	1.0	30	0	96.8	73-130	0			

MS	Sample ID: 1006149-10AMS				Units: µg/Kg		Analysis Date: 6/9/2010 11:44 PM			
Client ID:	Run ID: BTEX3_100609B				SeqNo: 1989987		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.78	1.0	20	0	104	74-129	0			
Toluene	21.38	1.0	20	1.279	100	75-128	0			
Ethylbenzene	21.44	1.0	20	0	107	73-127	0			
Xylenes, Total	65.23	3.0	60	0	109	74-127	0			
Surr: 4-Bromofluorobenzene	31.64	1.0	30	0	105	75-131	0			
Surr: Trifluorotoluene	29.62	1.0	30	0	98.7	73-130	0			

MSD	Sample ID: 1006149-10AMSD				Units: µg/Kg		Analysis Date: 6/10/2010 12:04 AM			
Client ID:	Run ID: BTEX3_100609B				SeqNo: 1989989		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.97	1.0	20	0	105	74-129	20.78	0.905	30	
Toluene	21.41	1.0	20	1.279	101	75-128	21.38	0.156	30	
Ethylbenzene	21.2	1.0	20	0	106	73-127	21.44	1.12	30	
Xylenes, Total	64.13	3.0	60	0	107	74-127	65.23	1.7	30	
Surr: 4-Bromofluorobenzene	31.71	1.0	30	0	106	75-131	31.64	0.209	30	
Surr: Trifluorotoluene	30.01	1.0	30	0	100	73-130	29.62	1.3	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R92295**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006150-01A	1006150-02A	1006150-03A
1006150-04A	1006150-05A	1006150-06A
1006150-07A	1006150-08A	1006150-09A
1006150-10A	1006150-11A	1006150-12A
1006150-13A	1006150-14A	1006150-15A
1006150-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92478 Instrument ID: BTEX3 Method: SW8021B

MBLK	Sample ID: BBLKS1-061010-R92478				Units: µg/Kg		Analysis Date: 6/10/2010 10:54 AM			
Client ID:	Run ID: BTEX3_100610A				SeqNo: 1993427		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.51	1.0	30	0	102	75-131	0			
Surr: Trifluorotoluene	29.73	1.0	30	0	99.1	73-130	0			

LCS	Sample ID: BLCSS1-061010-R92478				Units: µg/Kg		Analysis Date: 6/10/2010 09:48 AM			
Client ID:	Run ID: BTEX3_100610A				SeqNo: 1993424		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.11	1.0	20	0	106	74-129	0			
Toluene	21.71	1.0	20	0	109	75-128	0			
Ethylbenzene	21.54	1.0	20	0	108	73-127	0			
Xylenes, Total	65.37	3.0	60	0	109	74-127	0			
Surr: 4-Bromofluorobenzene	31.82	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	30.36	1.0	30	0	101	73-130	0			

MS	Sample ID: 1006203-10AMS				Units: µg/Kg		Analysis Date: 6/10/2010 03:34 PM			
Client ID:	Run ID: BTEX3_100610A				SeqNo: 1993434		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.28	1.0	20	0	116	74-129	0			
Toluene	23.73	1.0	20	0.9177	114	75-128	0			
Ethylbenzene	22.98	1.0	20	0	115	73-127	0			
Xylenes, Total	70.1	3.0	60	0	117	74-127	0			
Surr: 4-Bromofluorobenzene	33.8	1.0	30	0	113	75-131	0			
Surr: Trifluorotoluene	31.89	1.0	30	0	106	73-130	0			

MSD	Sample ID: 1006203-10AMSD				Units: µg/Kg		Analysis Date: 6/10/2010 03:54 PM			
Client ID:	Run ID: BTEX3_100610A				SeqNo: 1993435		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.99	1.0	20	0	110	74-129	23.28	5.69	30	
Toluene	22.81	1.0	20	0.9177	109	75-128	23.73	3.94	30	
Ethylbenzene	22.7	1.0	20	0	114	73-127	22.98	1.24	30	
Xylenes, Total	68.91	3.0	60	0	115	74-127	70.1	1.71	30	
Surr: 4-Bromofluorobenzene	34	1.0	30	0	113	75-131	33.8	0.594	30	
Surr: Trifluorotoluene	31.9	1.0	30	0	106	73-130	31.89	0.0287	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R92478** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1006150-17A	1006150-18A	1006150-19A
1006150-20A	1006150-21A	1006150-22A
1006150-23A	1006150-24A	1006150-25A
1006150-26A	1006150-27A	1006150-28A
1006150-35A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92501 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS2-061010-R92501 Units: µg/Kg Analysis Date: 6/10/2010 11:07 PM
 Client ID: Run ID: BTEX3_100610B SeqNo: 1993485 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.61	1.0	30	0	95.4	75-131	0			
Surr: Trifluorotoluene	27.41	1.0	30	0	91.4	73-130	0			

LCS Sample ID: BLCSS2-061010-R92501 Units: µg/Kg Analysis Date: 6/10/2010 10:27 PM
 Client ID: Run ID: BTEX3_100610B SeqNo: 1993484 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.55	1.0	20	0	97.7	74-129	0			
Toluene	20.2	1.0	20	0	101	75-128	0			
Ethylbenzene	19.8	1.0	20	0	99	73-127	0			
Xylenes, Total	60.49	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	29.49	1.0	30	0	98.3	75-131	0			
Surr: Trifluorotoluene	28.28	1.0	30	0	94.3	73-130	0			

MS Sample ID: 1006150-34AMS Units: µg/Kg Analysis Date: 6/11/2010 01:06 AM
 Client ID: CSB-3 100' Run ID: BTEX3_100610B SeqNo: 1993502 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.28	1.0	20	0	96.4	74-129	0			
Toluene	20.61	1.0	20	0	103	75-128	0			
Ethylbenzene	19.62	1.0	20	0	98.1	73-127	0			
Xylenes, Total	59.35	3.0	60	0	98.9	74-127	0			
Surr: 4-Bromofluorobenzene	28.65	1.0	30	0	95.5	75-131	0			
Surr: Trifluorotoluene	28.6	1.0	30	0	95.3	73-130	0			

MSD Sample ID: 1006150-34AMSD Units: µg/Kg Analysis Date: 6/11/2010 01:26 AM
 Client ID: CSB-3 100' Run ID: BTEX3_100610B SeqNo: 1993505 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.38	1.0	20	0	96.9	74-129	19.28	0.525	30	
Toluene	20.29	1.0	20	0	101	75-128	20.61	1.59	30	
Ethylbenzene	19.39	1.0	20	0	96.9	73-127	19.62	1.18	30	
Xylenes, Total	58.51	3.0	60	0	97.5	74-127	59.35	1.43	30	
Surr: 4-Bromofluorobenzene	27.63	1.0	30	0	92.1	75-131	28.65	3.62	30	
Surr: Trifluorotoluene	28.49	1.0	30	0	95	73-130	28.6	0.39	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006150

Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R92501**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006150-29A	1006150-30A	1006150-32A
1006150-33A	1006150-34A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R92600** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-061010-R92600** Units: **mg/Kg** Analysis Date: **6/10/2010 05:51 PM**
 Client ID: Run ID: **FID-9_100610D** SeqNo: **1995719** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.0872	0.0050	0.1	0	87.2	70-130	0			

LCS Sample ID: **GLCSS-061010-R92600** Units: **mg/Kg** Analysis Date: **6/10/2010 05:04 PM**
 Client ID: Run ID: **FID-9_100610D** SeqNo: **1995717** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.081	0.050	1	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	0.08969	0.0050	0.1	0	89.7	70-130	0			

LCSD Sample ID: **GLCSDS-061010-R92600** Units: **mg/Kg** Analysis Date: **6/10/2010 05:28 PM**
 Client ID: Run ID: **FID-9_100610D** SeqNo: **1995718** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.161	0.050	1	0	116	70-130	1.081	7.17	30	
Surr: 4-Bromofluorobenzene	0.09016	0.0050	0.1	0	90.2	70-130	0.08969	0.527	30	

MS Sample ID: **1006149-10BMS** Units: **mg/Kg** Analysis Date: **6/10/2010 11:13 PM**
 Client ID: Run ID: **FID-9_100610D** SeqNo: **1995732** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.103	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	0.08433	0.0050	0.1	0	84.3	70-130	0			

MSD Sample ID: **1006149-10BMSD** Units: **mg/Kg** Analysis Date: **6/10/2010 11:36 PM**
 Client ID: Run ID: **FID-9_100610D** SeqNo: **1995733** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.092	0.050	1	0	109	70-130	1.103	0.97	30	
Surr: 4-Bromofluorobenzene	0.08751	0.0050	0.1	0	87.5	70-130	0.08433	3.7	30	

The following samples were analyzed in this batch:

1006150-01B	1006150-02B	1006150-03B
1006150-04B	1006150-05B	1006150-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92601 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 06:14 PM

Client ID: Run ID: FID-9_100611C SeqNo: 1995793 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08088	0.0050	0.1	0	80.9	70-130	0			

LCS Sample ID: GLCSS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 05:26 PM

Client ID: Run ID: FID-9_100611C SeqNo: 1995791 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.117	0.050	1	0	112	70-130	0			
Surr: 4-Bromofluorobenzene	0.08903	0.0050	0.1	0	89	70-130	0			

LCSD Sample ID: GLCSDS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 05:49 PM

Client ID: Run ID: FID-9_100611C SeqNo: 1995792 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9457	0.050	1	0	94.6	70-130	1.117	16.6	30	
Surr: 4-Bromofluorobenzene	0.08829	0.0050	0.1	0	88.3	70-130	0.08903	0.832	30	

MS Sample ID: 1006381-03ZMS Units: mg/Kg Analysis Date: 6/11/2010 07:05 PM

Client ID: Run ID: FID-9_100611C SeqNo: 1995795 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.097	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	0.08854	0.0050	0.1	0	88.5	70-130	0			

MSD Sample ID: 1006381-03ZMSD Units: mg/Kg Analysis Date: 6/11/2010 07:27 PM

Client ID: Run ID: FID-9_100611C SeqNo: 1995796 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.093	0.050	1	0	109	70-130	1.097	0.408	30	
Surr: 4-Bromofluorobenzene	0.08382	0.0050	0.1	0	83.8	70-130	0.08854	5.48	30	

The following samples were analyzed in this batch:

1006150-07B	1006150-08B	1006150-09B
1006150-10B	1006150-11B	1006150-12B
1006150-13B	1006150-14B	1006150-15B
1006150-16B	1006150-17B	1006150-18B
1006150-19B	1006150-20B	1006150-21B
1006150-22B	1006150-23B	1006150-24B
1006150-25B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R92638 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061410-R92638 Units: mg/Kg Analysis Date: 6/14/2010 12:25 PM
 Client ID: Run ID: FID-9_100614A SeqNo: 1996780 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08757	0.0050	0.1	0	87.6	70-130	0			

LCS Sample ID: GLCSS-061410-R92638 Units: mg/Kg Analysis Date: 6/14/2010 11:39 AM
 Client ID: Run ID: FID-9_100614A SeqNo: 1996778 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.118	0.050	1	0	112	70-130	0			
Surr: 4-Bromofluorobenzene	0.09358	0.0050	0.1	0	93.6	70-130	0			

LCSD Sample ID: GLCSDS-061410-R92638 Units: mg/Kg Analysis Date: 6/14/2010 12:02 PM
 Client ID: Run ID: FID-9_100614A SeqNo: 1996779 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.116	0.050	1	0	112	70-130	1.118	0.19	30	
Surr: 4-Bromofluorobenzene	0.09459	0.0050	0.1	0	94.6	70-130	0.09358	1.07	30	

MS Sample ID: 1006150-30BMS Units: mg/Kg Analysis Date: 6/14/2010 02:43 PM
 Client ID: CSB-3 70' Run ID: FID-9_100614A SeqNo: 1996786 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.156	0.050	1	0	116	70-130	0			
Surr: 4-Bromofluorobenzene	0.09492	0.0050	0.1	0	94.9	70-130	0			

MSD Sample ID: 1006150-30BMSD Units: mg/Kg Analysis Date: 6/14/2010 03:06 PM
 Client ID: CSB-3 70' Run ID: FID-9_100614A SeqNo: 1996787 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.145	0.050	1	0	115	70-130	1.156	0.92	30	
Surr: 4-Bromofluorobenzene	0.09321	0.0050	0.1	0	93.2	70-130	0.09492	1.82	30	

The following samples were analyzed in this batch:

1006150-26B	1006150-27B	1006150-28B
1006150-29B	1006150-30B	1006150-32B
1006150-33B	1006150-34B	1006150-35B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 43544 Instrument ID ICS3K2 Method: E300

MBLK Sample ID: WBLKS2-060710-43544 Units: mg/Kg Analysis Date: 6/8/2010 02:07 PM

Client ID: Run ID: ICS3K2_100608A SeqNo: 1988887 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3.49	5.0								J
Surr: Selenate (surr)	51.8	1.0	50	0	104	85-115	0			

LCS Sample ID: WLCSS2-060710-43544 Units: mg/Kg Analysis Date: 6/8/2010 02:28 PM

Client ID: Run ID: ICS3K2_100608A SeqNo: 1988889 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	195.7	5.0	200	0	97.9	90-110	0			
Surr: Selenate (surr)	49.65	1.0	50	0	99.3	85-115	0			

MS Sample ID: 1006150-01BMS Units: mg/Kg Analysis Date: 6/8/2010 06:39 PM

Client ID: CSB-1 1-2' Run ID: ICS3K2_100608A SeqNo: 1988891 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	303.9	5.0	99.8	207.7	96.4	75-125	0			
Surr: Selenate (surr)	51.45	1.0	49.9	0	103	80-120	0			

MS Sample ID: 1006150-20BMS Units: mg/Kg Analysis Date: 6/9/2010 03:42 AM

Client ID: CSB-2 80' Run ID: ICS3K2_100608A SeqNo: 1988925 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	110.6	5.0	99.01	15.06	96.5	75-125	0			
Surr: Selenate (surr)	50.26	0.99	49.5	0	102	80-120	0			

MSD Sample ID: 1006150-01BMSD Units: mg/Kg Analysis Date: 6/8/2010 07:01 PM

Client ID: CSB-1 1-2' Run ID: ICS3K2_100608A SeqNo: 1988893 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	303.6	5.0	99.8	207.7	96.1	75-125	303.9	0.0986	20	
Surr: Selenate (surr)	51.63	1.0	49.9	0	103	80-120	51.45	0.349	20	

MSD Sample ID: 1006150-20BMSD Units: mg/Kg Analysis Date: 6/9/2010 04:03 AM

Client ID: CSB-2 80' Run ID: ICS3K2_100608A SeqNo: 1988926 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	110.9	5.0	99.01	15.06	96.8	75-125	110.6	0.188	20	
Surr: Selenate (surr)	50.44	0.99	49.5	0	102	80-120	50.26	0.354	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **43544**

Instrument ID **ICS3K2**

Method: **E300**

The following samples were analyzed in this batch:

1006150-01B	1006150-02B	1006150-03B
1006150-04B	1006150-05B	1006150-06B
1006150-07B	1006150-08B	1006150-09B
1006150-10B	1006150-11B	1006150-12B
1006150-13B	1006150-14B	1006150-15B
1006150-16B	1006150-17B	1006150-18B
1006150-19B	1006150-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006150
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 43545 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS3-060710-43545 Units: mg/Kg Analysis Date: 6/9/2010 11:14 AM

Client ID: Run ID: ICS3000_100609A SeqNo: 1989136 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	56.55	1.0	50	0	113	85-115	0			

LCS Sample ID: WLCSS3-060710-43545 Units: mg/Kg Analysis Date: 6/9/2010 11:36 AM

Client ID: Run ID: ICS3000_100609A SeqNo: 1989137 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	201.5	5.0	200	0	101	90-110	0			
Surr: Selenate (surr)	56.01	1.0	50	0	112	85-115	0			

MS Sample ID: 1006150-21BMS Units: mg/Kg Analysis Date: 6/9/2010 12:19 PM

Client ID: CSB-2 90' Run ID: ICS3000_100609A SeqNo: 1989140 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	109.2	5.0	99.01	12.65	97.5	75-125	0			
Surr: Selenate (surr)	51.12	0.99	49.5	0	103	80-120	0			

MS Sample ID: 1006150-35BMS Units: mg/Kg Analysis Date: 6/9/2010 06:28 PM

Client ID: CSB-3 110' Run ID: ICS3000_100609A SeqNo: 1989158 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	124.5	5.0	99.8	26.47	98.3	75-125	0			
Surr: Selenate (surr)	51.31	1.0	49.9	0	103	80-120	0			

MSD Sample ID: 1006150-21BMSD Units: mg/Kg Analysis Date: 6/9/2010 12:41 PM

Client ID: CSB-2 90' Run ID: ICS3000_100609A SeqNo: 1989142 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	109	5.0	99.01	12.65	97.3	75-125	109.2	0.154	20	
Surr: Selenate (surr)	48.06	0.99	49.5	0	97.1	80-120	51.12	6.17	20	

MSD Sample ID: 1006150-35BMSD Units: mg/Kg Analysis Date: 6/9/2010 06:50 PM

Client ID: CSB-3 110' Run ID: ICS3000_100609A SeqNo: 1989159 Prep Date: 6/7/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	124.4	5.0	99.8	26.47	98.1	75-125	124.5	0.112	20	
Surr: Selenate (surr)	51.28	1.0	49.9	0	103	80-120	51.31	0.0584	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006150
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 43545 Instrument ID ICS3000 Method: E300

The following samples were analyzed in this batch:

1006150-21B	1006150-22B	1006150-23B
1006150-24B	1006150-25B	1006150-26B
1006150-27B	1006150-28B	1006150-29B
1006150-30B	1006150-32B	1006150-33B
1006150-34B	1006150-35B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 18-Jun-10

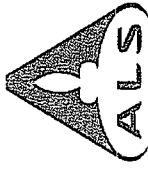
Client: Navajo Refining Company
Project: Lea Refining Soil Borings
WorkOrder: 1006150

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



ALS Laboratory Group
10450 Stancil Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group

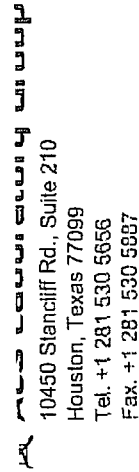
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 4

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Project Name	Lea Refinery	Project Number	NAV-10-002	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Work Order	Project Number	NAV-10-002	Project Number	NAV-10-002	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Company Name	Navajo Refining Company	Navajo Refining Company	Company Name	Navajo Refining Company	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Send Report To	Darrell Moore	Darrell Moore	Invoice Attn	Darrell Moore	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Address	P.O. Box 159	P.O. Box 159	Address	P.O. Box 159	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
City/State/Zip	Artesia, NM 88211	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Phone	(505) 748-3311	(505) 748-3311	Phone	(505) 748-3311	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
Fax	(505) 746-5421	(505) 746-5421	Fax	(505) 746-5421	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
e-Mail Address	dgbayer@SES-NM.com	dgbayer@SES-NM.com	e-Mail Address	dgbayer@SES-NM.com	Project Manager	ALS Project Manager	Parameter/Method Request for Analysis												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	CSB-1 1-2'	6-2-10	1440	Seal	8	2	X	X	X	X	X	X	X	X	X	X	X		
2	10'	1450	1450																
3	20'	1500	1500																
4	30'	1505	1505																
5	40'	1510	1510																
6	50'	1520	1520																
7	60'	1550	1550																
8	70'	1605	1605																
9	80'	1615	1615																
10	CSB-1 90'	6-2-10	1630	Seal	8	2	X	X	X	X	X	X	X	X	X	X	X		
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:							
Bayer				Fe 2 Ex				1-5 WK Days				24-Hour							
Relinquished by: [Signature]				Date: 6/3/10				Time: 17:15				Received by: [Signature]							
Relinquished by: [Signature]				Date: 6/3/10				Time: 17:15				Received by: [Signature]							
Logged by (Laboratory):				Time:				Checked by (Laboratory):				Time:							
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ S ₂ O ₃ , 6-NaHSO ₃ , 7-Other				8-4°C, 9-5035				Cooler ID: 210				Cooler Temp: 40.0355							
QC Package: (Check One Box Below)				Level II Std OC				Level III Std OC/Raw Data				Level IV SW046/CLP							
Other				Other				Other				Other							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse side of this form.
The use of Chain of Custody Form is a requirement of the ALS Laboratory Group.

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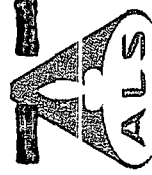
Page 9 of 4

[illegible]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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1. Any changes must be made in writing (e-mail, letter, or other) and be approved by A/S Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by A/S Laboratory Group are expressly limited to the terms and conditions stated on the reverse side of this document.



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Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
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Page 4 of 4

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Project Name	Lea Refinery	Project Manager	ALS Work Order #															
Work Order	Project Number	NAV-10-002																	
Company Name	Bill To Company	Navajo Refining Company																	
Send Report To	Invoice Attn	Darrell Moore																	
Address	P.O. Box 159																		
City/State/Zip	Artesia, NM 88211																		
Phone	(505) 748-3311																		
Fax	(505) 746-5421																		
e-Mail Address	dgbayer@SESI-NM.com																		
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	CSB-3 70	6/3/10	1420	Soil	8	2		X	X	X									
2	80		1410																
3	90		1420																
4	100		1430																
5	CSB-3 110	6/3/10	1440	Soil	8	2	X	X	X	X									
6	Trip Blank 051710-27			H ₂ O	1,8	2	X												
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date
		☒ 5 Wks Days ☐ 10 Wks Days ☐ 15 Wks Days ☐ 20 Wks Days	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:

Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:

Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035

QC Package: (Check One Box Below)	Level I Std QC	Level II Std QC	Level III Std QC/Raw Data	Level IV SWDAG/CLP	Other
	☒	☐	☐	☐	☐

Notes:
10 Day TAT, Co Dave Boyer

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 04-Jun-10 08:55

Work Order: 1006150

Received by: RSZ

Checklist completed by Richard Sanchez
eSignature

04-Jun-10
Date

Reviewed by:

eSignature

Date

Matrices: soil

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 1.6c, 1.2c 002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

This portion can be removed for recipient's records.

Sender's name: L. Boyer Phone: 505 394-7067
Company: SESL
Address: 103 E. Clinton
Hobbs State: NM ZIP: 88240

Internal Billing Reference

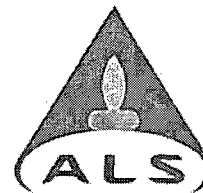
Tracking Number: 8720967037503210
Sender's name: L. Boyer Phone: 505 394-7067
Company: SESL
Address: 103 E. Clinton
Hobbs State: NM ZIP: 88240

Internal Billing Reference

 ALS Laboratory Group 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Date: <u>6/5/10</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	CUSTODY SEAL Time: <u>12:15</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	Seal Broken By: <u>R</u> Date: <u>6/4/10</u>
	Date: <u>6/5/10</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	CUSTODY SEAL Time: <u>12:15</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	Seal Broken By: <u>R</u> Date: <u>6/4/10</u>
Date: <u>6/5/10</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	CUSTODY SEAL Time: <u>12:15</u> Name: <u>L. Boyer</u> Company: <u>SESL</u>	Seal Broken By: <u>R</u> Date: <u>6/4/10</u>	

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

24-Jun-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery Soil Barings

Work Order: 1006299

Dear Darrell,

ALS Laboratory Group received 13 samples on 09-Jun-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

Client: Navajo Refining Company
 Project: Lea Refinery Soil Barings
 Work Order: 1006299

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006299-01	CSB-4 5'	Soil		6/4/2010 07:00	6/9/2010 08:50	☐
1006299-02	CSB-4 10'	Soil		6/4/2010 07:10	6/9/2010 08:50	☐
1006299-03	CSB-4 20'	Soil		6/4/2010 07:15	6/9/2010 08:50	☐
1006299-04	CSB-4 30'	Soil		6/4/2010 07:25	6/9/2010 08:50	☐
1006299-05	CSB-4 40'	Soil		6/4/2010 07:35	6/9/2010 08:50	☐
1006299-06	CSB-4 50'	Soil		6/4/2010 07:45	6/9/2010 08:50	☐
1006299-07	CSB-4 60'	Soil		6/4/2010 08:05	6/9/2010 08:50	☐
1006299-08	CSB-4 70'	Soil		6/4/2010 08:15	6/9/2010 08:50	☐
1006299-09	CSB-4 80'	Soil		6/4/2010 08:25	6/9/2010 08:50	☐
1006299-10	CSB-4 90'	Soil		6/4/2010 08:35	6/9/2010 08:50	☐
1006299-11	CSB-4 100'	Soil		6/4/2010 08:45	6/9/2010 08:50	☐
1006299-12	CSB-4 110'	Soil		6/4/2010 08:55	6/9/2010 08:50	☐
1006299-13	Trip Blank 052810-65	Water		6/4/2010	6/9/2010 08:50	☐

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Case Narrative

Batch 43634, DRO: The MS/MSD was performed on an unrelated sample.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery Soil Barings
 Sample ID: CSB-4 5'
 Collection Date: 6/4/2010 07:00 AM

Work Order: 1006299
 Lab ID: 1006299-01
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	84		8.5	mg/Kg	5	6/23/2010 02:53 PM
TPH (Motor Oil Range)	98		17	mg/Kg	5	6/23/2010 02:53 PM
Surr: 2-Fluorobiphenyl	97.6		70-130	%REC	5	6/23/2010 02:53 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	0.36		0.050	mg/Kg	1	6/17/2010 05:02 PM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	6/17/2010 05:02 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 09:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 09:43 PM
Ethylbenzene	0.0033		0.0010	mg/Kg	1	6/16/2010 09:43 PM
Xylenes, Total	0.0087		0.0030	mg/Kg	1	6/16/2010 09:43 PM
Surr: 4-Bromofluorobenzene	125		75-131	%REC	1	6/16/2010 09:43 PM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/16/2010 09:43 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	163		4.98	mg/Kg	1	6/24/2010 01:26 AM
Surr: Selenate (surr)	107		85-115	%REC	1	6/24/2010 01:26 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery Soil Barings
 Sample ID: CSB-4 10'
 Collection Date: 6/4/2010 07:10 AM

Work Order: 1006299
 Lab ID: 1006299-02
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/23/2010 10:25 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/23/2010 10:25 AM
Surr: 2-Fluorobiphenyl	71.1		70-130	%REC	1	6/23/2010 10:25 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 05:25 PM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/17/2010 05:25 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 10:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 10:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 10:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 10:03 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/16/2010 10:03 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/16/2010 10:03 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	523		5.00	mg/Kg	1	6/24/2010 01:41 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/24/2010 01:41 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 20'

Lab ID: 1006299-03

Collection Date: 6/4/2010 07:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	240		17	mg/Kg	10	6/23/2010 01:14 PM
TPH (Motor Oil Range)	320		34	mg/Kg	10	6/23/2010 01:14 PM
Surr: 2-Fluorobiphenyl	87.1		70-130	%REC	10	6/23/2010 01:14 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 05:49 PM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/17/2010 05:49 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 01:31 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 01:31 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 01:31 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 01:31 PM
Surr: 4-Bromofluorobenzene	99.5		75-131	%REC	1	6/17/2010 01:31 PM
Surr: Trifluorotoluene	99.4		73-130	%REC	1	6/17/2010 01:31 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	1,880		49.9	mg/Kg	10	6/24/2010 11:31 AM
Surr: Selenate (surr)	107		85-115	%REC	10	6/24/2010 11:31 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 30'

Lab ID: 1006299-04

Collection Date: 6/4/2010 07:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	19		1.7	mg/Kg	1	6/23/2010 10:25 AM
TPH (Motor Oil Range)	32		3.4	mg/Kg	1	6/23/2010 10:25 AM
Surr: 2-Fluorobiphenyl	73.1		70-130	%REC	1	6/23/2010 10:25 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 06:12 PM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/17/2010 06:12 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/16/2010 10:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/16/2010 10:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/16/2010 10:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/16/2010 10:43 PM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	6/16/2010 10:43 PM
Surr: Trifluorotoluene	99.8		73-130	%REC	1	6/16/2010 10:43 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	1,660		49.3	mg/Kg	10	6/24/2010 10:10 AM
Surr: Selenate (surr)	100		85-115	%REC	10	6/24/2010 10:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 40'

Lab ID: 1006299-05

Collection Date: 6/4/2010 07:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:59 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:59 PM
Surr: 2-Fluorobiphenyl	70.7		70-130	%REC	1	6/12/2010 10:59 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 06:35 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	6/17/2010 06:35 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 01:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 01:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 01:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 01:52 PM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1	6/17/2010 01:52 PM
Surr: Trifluorotoluene	99.7		73-130	%REC	1	6/17/2010 01:52 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	2,190		49.7	mg/Kg	10	6/24/2010 10:24 AM
Surr: Selenate (surr)	99.6		85-115	%REC	10	6/24/2010 10:24 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Barings
Sample ID: CSB-4 50'
Collection Date: 6/4/2010 07:45 AM

Work Order: 1006299
Lab ID: 1006299-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/10/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/12/2010 10:40 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/12/2010 10:40 PM
Surr: 2-Fluorobiphenyl	77.2		70-130	%REC	1	6/12/2010 10:40 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 06:59 PM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/17/2010 06:59 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 02:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 02:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 02:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 02:12 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/17/2010 02:12 PM
Surr: Trifluorotoluene	99.2		73-130	%REC	1	6/17/2010 02:12 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	1,300		49.9	mg/Kg	10	6/24/2010 10:39 AM
Surr: Selenate (surr)	95.9		85-115	%REC	10	6/24/2010 10:39 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 60'

Lab ID: 1006299-07

Collection Date: 6/4/2010 08:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 07:29 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 07:29 PM
Surr: 2-Fluorobiphenyl	71.8		70-130	%REC	1	6/11/2010 07:29 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 07:22 PM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/17/2010 07:22 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 02:32 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 02:32 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 02:32 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 02:32 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/17/2010 02:32 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/17/2010 02:32 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	1,130		49.6	mg/Kg	10	6/24/2010 10:53 AM
Surr: Selenate (surr)	101		85-115	%REC	10	6/24/2010 10:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery Soil Barings
 Sample ID: CSB-4 70'
 Collection Date: 6/4/2010 08:15 AM

Work Order: 1006299
 Lab ID: 1006299-08
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 07:48 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 07:48 PM
Surr: 2-Fluorobiphenyl	70.3		70-130	%REC	1	6/11/2010 07:48 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 07:45 PM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	6/17/2010 07:45 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 02:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 02:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 02:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 02:52 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/17/2010 02:52 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/17/2010 02:52 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	986		49.7	mg/Kg	10	6/24/2010 11:08 AM
Surr: Selenate (surr)	102		85-115	%REC	10	6/24/2010 11:08 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
 Project: Lea Refinery Soil Barings
 Sample ID: CSB-4 80'
 Collection Date: 6/4/2010 08:25 AM

Work Order: 1006299
 Lab ID: 1006299-09
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 08:08 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 08:08 PM
Surr: 2-Fluorobiphenyl	73.2		70-130	%REC	1	6/11/2010 08:08 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 09:18 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/17/2010 09:18 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 03:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 03:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 03:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 03:12 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/17/2010 03:12 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/17/2010 03:12 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	222		4.97	mg/Kg	1	6/24/2010 03:22 AM
Surr: Selenate (surr)	104		85-115	%REC	1	6/24/2010 03:22 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 90'

Lab ID: 1006299-10

Collection Date: 6/4/2010 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 08:27 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 08:27 PM
Surr: 2-Fluorobiphenyl	70.9		70-130	%REC	1	6/11/2010 08:27 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 09:41 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/17/2010 09:41 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 03:32 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 03:32 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 03:32 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 03:32 PM
Surr: 4-Bromofluorobenzene	107		75-131	%REC	1	6/17/2010 03:32 PM
Surr: Trifluorotoluene	99.8		73-130	%REC	1	6/17/2010 03:32 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	8.43		4.90	mg/Kg	1	6/24/2010 04:50 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/24/2010 04:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Barings
Sample ID: CSB-4 100'
Collection Date: 6/4/2010 08:45 AM

Work Order: 1006299
Lab ID: 1006299-11
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 08:46 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 08:46 PM
Surr: 2-Fluorobiphenyl	75.6		70-130	%REC	1	6/11/2010 08:46 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 10:04 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/17/2010 10:04 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 03:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 03:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 03:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 03:52 PM
Surr: 4-Bromofluorobenzene	105		75-131	%REC	1	6/17/2010 03:52 PM
Surr: Trifluorotoluene	96.5		73-130	%REC	1	6/17/2010 03:52 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	5.93		4.98	mg/Kg	1	6/24/2010 05:04 AM
Surr: Selenate (surr)	105		85-115	%REC	1	6/24/2010 05:04 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 110'

Lab ID: 1006299-12

Collection Date: 6/4/2010 08:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/11/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/11/2010 09:06 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/11/2010 09:06 PM
Surr: 2-Fluorobiphenyl	70.7		70-130	%REC	1	6/11/2010 09:06 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/17/2010 10:28 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	6/17/2010 10:28 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/17/2010 05:18 PM
Toluene	ND		0.0010	mg/Kg	1	6/17/2010 05:18 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/17/2010 05:18 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/17/2010 05:18 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	1	6/17/2010 05:18 PM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/17/2010 05:18 PM
ANIONS						
			E300		Prep Date: 6/10/2010	Analyst: DM
Chloride	84.1		4.97	mg/Kg	1	6/24/2010 05:19 AM
Surr: Selenate (surr)	106		85-115	%REC	1	6/24/2010 05:19 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: Trip Blank 052810-65

Lab ID: 1006299-13

Collection Date: 6/4/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/15/2010 11:51 AM
Toluene	ND		0.0010	mg/L	1	6/15/2010 11:51 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/15/2010 11:51 AM
Xylenes, Total	ND		0.0030	mg/L	1	6/15/2010 11:51 AM
Surr: 4-Bromofluorobenzene	114		77-129	%REC	1	6/15/2010 11:51 AM
Surr: Trifluorotoluene	91.5		75-130	%REC	1	6/15/2010 11:51 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company
Work Order: 1006299
Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **43613** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS4-100610-43613** Units: **mg/Kg** Analysis Date: **6/23/2010 10:44 AM**

Client ID: Run ID: **FID-8_100610B** SeqNo: **2004197** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.499	0.10	3.33	0	105	70-130	0			

LCS Sample ID: **FLCSS4-100610-43613** Units: **mg/Kg** Analysis Date: **6/23/2010 11:03 AM**

Client ID: Run ID: **FID-8_100610B** SeqNo: **2004200** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.69	1.7	33.33	0	104	70-130	0			
TPH (Motor Oil Range)	33.74	3.4	33.33	0	101	70-130	0			
Surr: 2-Fluorobiphenyl	3.943	0.10	3.33	0	118	70-130	0			

MS Sample ID: **1006299-04BMS** Units: **mg/Kg** Analysis Date: **6/23/2010 10:44 AM**

Client ID: **CSB-4 30'** Run ID: **FID-8_100610B** SeqNo: **2004225** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	44.18	1.7	33.3	19.18	75.1	70-130	0			
TPH (Motor Oil Range)	62.66	3.4	33.3	31.76	92.8	70-130	0			
Surr: 2-Fluorobiphenyl	2.763	0.10	3.327	0	83	70-130	0			

MSD Sample ID: **1006299-04BMSD** Units: **mg/Kg** Analysis Date: **6/23/2010 11:03 AM**

Client ID: **CSB-4 30'** Run ID: **FID-8_100610B** SeqNo: **2004226** Prep Date: **6/10/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	47.04	1.7	33.25	19.18	83.8	70-130	44.18	6.27	30	
TPH (Motor Oil Range)	68.46	3.4	33.25	31.76	110	70-130	62.66	8.84	30	E
Surr: 2-Fluorobiphenyl	2.969	0.10	3.322	0	89.4	70-130	2.763	7.19	30	

The following samples were analyzed in this batch:

1006299-01B	1006299-02B	1006299-03B
1006299-04B	1006299-05B	1006299-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006299
 Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: 43634 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS1-100611-43634 Units: mg/Kg Analysis Date: 6/11/2010 06:50 PM

Client ID: Run ID: FID-3_100611C SeqNo: 2000514 Prep Date: 6/11/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.866	0.10	3.33	0	86.1	70-130	0			

LCS Sample ID: FLCSS1-100611-43634 Units: mg/Kg Analysis Date: 6/11/2010 07:10 PM

Client ID: Run ID: FID-3_100611C SeqNo: 2000515 Prep Date: 6/11/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	24.39	1.7	33.33	0	73.2	70-130	0			
TPH (Motor Oil Range)	26.01	3.4	33.33	0	78	70-130	0			
Surr: 2-Fluorobiphenyl	3.183	0.10	3.33	0	95.6	70-130	0			

MS Sample ID: 1006312-06AMS Units: mg/Kg Analysis Date: 6/12/2010

Client ID: Run ID: FID-3_100611C SeqNo: 2000527 Prep Date: 6/11/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	369.7	1.7	33.31	450.1	-242	70-130	0			SEO
TPH (Motor Oil Range)	3998	3.4	33.31	4560	-1690	70-130	0			SEO
Surr: 2-Fluorobiphenyl	6.66	0.10	3.328	0	200	70-130	0			S

MSD Sample ID: 1006312-06AMSD Units: mg/Kg Analysis Date: 6/12/2010 12:19 AM

Client ID: Run ID: FID-3_100611C SeqNo: 2000528 Prep Date: 6/11/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	294.2	1.7	33.26	450.1	-469	70-130	369.7	22.8	30	SEO
TPH (Motor Oil Range)	3279	3.4	33.26	4560	-3850	70-130	3998	19.7	30	SEO
Surr: 2-Fluorobiphenyl	5.539	0.10	3.323	0	167	70-130	6.66	18.4	30	S

The following samples were analyzed in this batch:

1006299-07B	1006299-08B	1006299-09B
1006299-10B	1006299-11B	1006299-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006299
 Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **R92642** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW1-061510-R92642** Units: **µg/L** Analysis Date: **6/15/2010 10:58 AM**

Client ID: Run ID: **BTEX1_100615A** SeqNo: **1996846** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	33.88	1.0	30	0	113	77-129	0			
Surr: Trifluorotoluene	27.75	1.0	30	0	92.5	75-130	0			

MBLK Sample ID: **BBLKW1-061510-R92642** Units: **µg/L** Analysis Date: **6/15/2010 11:15 AM**

Client ID: Run ID: **BTEX1_100615A** SeqNo: **1996847** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	34.29	1.0	30	0	114	77-129	0			
Surr: Trifluorotoluene	27.12	1.0	30	0	90.4	75-130	0			

LCS Sample ID: **BLCBW1-061510-R92642** Units: **µg/L** Analysis Date: **6/15/2010 10:23 AM**

Client ID: Run ID: **BTEX1_100615A** SeqNo: **1996845** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.51	1.0	20	0	103	77-126	0			
Toluene	17.26	1.0	20	0	86.3	80-124	0			
Ethylbenzene	18.63	1.0	20	0	93.2	76-125	0			
Xylenes, Total	53.43	3.0	60	0	89.1	79-124	0			
Surr: 4-Bromofluorobenzene	35.76	1.0	30	0	119	77-129	0			
Surr: Trifluorotoluene	28.11	1.0	30	0	93.7	75-130	0			

MS Sample ID: **1006372-06AMS** Units: **µg/L** Analysis Date: **6/15/2010 02:09 PM**

Client ID: Run ID: **BTEX1_100615A** SeqNo: **1996857** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.24	1.0	20	0	111	77-126	0			
Toluene	17.56	1.0	20	0	87.8	80-124	0			
Ethylbenzene	18.65	1.0	20	0	93.3	76-125	0			
Xylenes, Total	54.04	3.0	60	0	90.1	79-124	0			
Surr: 4-Bromofluorobenzene	35.07	1.0	30	0	117	77-129	0			
Surr: Trifluorotoluene	28.14	1.0	30	0	93.8	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006299
Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **R92642** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1006372-06AMSD** Units: **µg/L** Analysis Date: **6/15/2010 02:26 PM**

Client ID: Run ID: **BTEX1_100615A** SeqNo: **1996858** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.58	1.0	20	0	113	77-126	22.24	1.49	20	
Toluene	17.94	1.0	20	0	89.7	80-124	17.56	2.11	20	
Ethylbenzene	19.24	1.0	20	0	96.2	76-125	18.65	3.1	20	
Xylenes, Total	55.42	3.0	60	0	92.4	79-124	54.04	2.53	20	
Surr: 4-Bromofluorobenzene	35.16	1.0	30	0	117	77-129	35.07	0.241	20	
Surr: Trifluorotoluene	27.64	1.0	30	0	92.1	75-130	28.14	1.82	20	

The following samples were analyzed in this batch:

1006299-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006299
 Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: R92710 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:58 AM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998357 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.53	1.0	30	0	102	75-131	0			
Surr: Trifluorotoluene	31.04	1.0	30	0	103	73-130	0			

LCS Sample ID: BLCSS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:21 AM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998356 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.35	1.0	20	0	107	74-129	0			
Toluene	22.18	1.0	20	0	111	75-128	0			
Ethylbenzene	21.99	1.0	20	0	110	73-127	0			
Xylenes, Total	67.52	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	32.71	1.0	30	0	109	75-131	0			
Surr: Trifluorotoluene	31.03	1.0	30	0	103	73-130	0			

MS Sample ID: 1006296-24AMS Units: µg/Kg Analysis Date: 6/16/2010 03:48 PM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998395 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.52	1.0	20	0	113	74-129	0			
Toluene	22.93	1.0	20	0	115	75-128	0			
Ethylbenzene	22.37	1.0	20	0	112	73-127	0			
Xylenes, Total	68.98	3.0	60	0	115	74-127	0			
Surr: 4-Bromofluorobenzene	33.95	1.0	30	0	113	75-131	0			
Surr: Trifluorotoluene	32.48	1.0	30	0	108	73-130	0			

MSD Sample ID: 1006296-24AMSD Units: µg/Kg Analysis Date: 6/16/2010 04:08 PM

Client ID: Run ID: BTEX3_100616A SeqNo: 1998396 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.86	1.0	20	0	109	74-129	22.52	2.97	30	
Toluene	22.79	1.0	20	0	114	75-128	22.93	0.628	30	
Ethylbenzene	23.01	1.0	20	0	115	73-127	22.37	2.79	30	
Xylenes, Total	70.21	3.0	60	0	117	74-127	68.98	1.76	30	
Surr: 4-Bromofluorobenzene	34.65	1.0	30	0	116	75-131	33.95	2.04	30	
Surr: Trifluorotoluene	32.03	1.0	30	0	107	73-130	32.48	1.4	30	

The following samples were analyzed in this batch:

1006299-01A 1006299-02A 1006299-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006299
 Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **R92712** Instrument ID **BTEX3** Method: **SW8021B**

MBLK	Sample ID: BBLKS1-061710-R92712				Units: µg/Kg		Analysis Date: 6/17/2010 01:11 PM			
Client ID:	Run ID: BTEX3_100617A				SeqNo: 1998400		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	31.27	1.0	30	0	104	75-131	0			
Surr: Trifluorotoluene	31.2	1.0	30	0	104	73-130	0			

LCS	Sample ID: BLCSS1-061710-R92712				Units: µg/Kg		Analysis Date: 6/17/2010 12:37 PM			
Client ID:	Run ID: BTEX3_100617A				SeqNo: 1998399		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.83	1.0	20	0	104	74-129	0			
Toluene	22	1.0	20	0	110	75-128	0			
Ethylbenzene	21.85	1.0	20	0	109	73-127	0			
Xylenes, Total	65.89	3.0	60	0	110	74-127	0			
Surr: 4-Bromofluorobenzene	31.67	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	31.11	1.0	30	0	104	73-130	0			

MS	Sample ID: 1006299-11AMS				Units: µg/Kg		Analysis Date: 6/17/2010 04:33 PM			
Client ID: CSB-4 100'	Run ID: BTEX3_100617A				SeqNo: 1998410		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.39	1.0	20	0	107	74-129	0			
Toluene	22.97	1.0	20	0	115	75-128	0			
Ethylbenzene	22.26	1.0	20	0	111	73-127	0			
Xylenes, Total	67.88	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	32.16	1.0	30	0	107	75-131	0			
Surr: Trifluorotoluene	31.3	1.0	30	0	104	73-130	0			

MSD	Sample ID: 1006299-11AMS				Units: µg/Kg		Analysis Date: 6/17/2010 04:53 PM			
Client ID: CSB-4 100'	Run ID: BTEX3_100617A				SeqNo: 1998411		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.84	1.0	20	0	104	74-129	21.39	2.59	30	
Toluene	22.27	1.0	20	0	111	75-128	22.97	3.09	30	
Ethylbenzene	22.17	1.0	20	0	111	73-127	22.26	0.4	30	
Xylenes, Total	67.74	3.0	60	0	113	74-127	67.88	0.202	30	
Surr: 4-Bromofluorobenzene	32.48	1.0	30	0	108	75-131	32.16	0.988	30	
Surr: Trifluorotoluene	30.98	1.0	30	0	103	73-130	31.3	1.04	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006299
Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **R92712** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1006299-03A	1006299-05A	1006299-06A
1006299-07A	1006299-08A	1006299-09A
1006299-10A	1006299-11A	1006299-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006299
 Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: **R92970** Instrument ID **FID-9** Method: **SW8015**

MBLK	Sample ID: GBLKS-061710-R92970				Units: mg/Kg		Analysis Date: 6/17/2010 02:03 PM			
Client ID:	Run ID: FID-9_100617A				SeqNo: 2004125		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1038	0.0050	0.1	0	104	70-130	0			

LCS	Sample ID: GLCSS-061710-R92970				Units: mg/Kg		Analysis Date: 6/17/2010 01:39 PM			
Client ID:	Run ID: FID-9_100617A				SeqNo: 2004123		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.131	0.050	1	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	0.1061	0.0050	0.1	0	106	70-130	0			

MS	Sample ID: 1006299-08BMS				Units: mg/Kg		Analysis Date: 6/17/2010 08:08 PM			
Client ID: CSB-4 70'		Run ID: FID-9_100617A			SeqNo: 2004140		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.165	0.050	1	0	117	70-130	0			
Surr: 4-Bromofluorobenzene	0.1043	0.0050	0.1	0	104	70-130	0			

MSD	Sample ID: 1006299-08BMSD				Units: mg/Kg		Analysis Date: 6/17/2010 08:31 PM			
Client ID: CSB-4 70'			Run ID: FID-9_100617A		SeqNo: 2004141		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.138	0.050	1	0	114	70-130	1.165	2.35	30	
Surr: 4-Bromofluorobenzene	0.1067	0.0050	0.1	0	107	70-130	0.1043	2.31	30	

The following samples were analyzed in this batch:

1006299-01B	1006299-02B	1006299-03B
1006299-04B	1006299-05B	1006299-06B
1006299-07B	1006299-08B	1006299-09B
1006299-10B	1006299-11B	1006299-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006299
Project: Lea Refinery Soil Barings

QC BATCH REPORT

Batch ID: 43619 Instrument ID ICS3000 Method: E300

LCS Sample ID: WLCSS1-061010-43619 Units: mg/Kg Analysis Date: 6/15/2010 01:38 PM

Client ID: Run ID: ICS3000_100615B SeqNo: 1996340 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189	5.0	200	0	94.5	90-110	0			
Surr: Selenate (surr)	50.36	1.0	50	0	101	85-115	0			

MS Sample ID: 1006299-09BMS Units: mg/Kg Analysis Date: 6/24/2010 04:35 AM

Client ID: CSB-4 80' Run ID: ICS2100_100623A SeqNo: 2005515 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	298.5	5.0	99.4	222	77	75-125	1.332	0	0	
Surr: Selenate (surr)	48.47	0.99	49.7	0	97.5	80-120	0	0		

MS Sample ID: 1006299-12BMS Units: mg/Kg Analysis Date: 6/24/2010 05:48 AM

Client ID: CSB-4 110' Run ID: ICS2100_100623A SeqNo: 2005520 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	182.2	5.0	99.4	84.12	98.7	75-125	0			
Surr: Selenate (surr)	52.87	0.99	49.7	0	106	80-120	0			

MSD Sample ID: 1006299-12BMSD Units: mg/Kg Analysis Date: 6/24/2010 06:02 AM

Client ID: CSB-4 110' Run ID: ICS2100_100623A SeqNo: 2005521 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	184.4	5.0	99.4	84.12	101	75-125	0			
Surr: Selenate (surr)	53.14	0.99	49.7	0	107	80-120	0			

DUP Sample ID: 1006299-12BDUP Units: mg/Kg Analysis Date: 6/24/2010 05:33 AM

Client ID: CSB-4 110' Run ID: ICS2100_100623A SeqNo: 2005519 Prep Date: 6/10/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	92.46	5.0	0	0	0	0-0	84.12	9.45	20	
Surr: Selenate (surr)	50.26	0.99	49.7	0	101	85-115	52.69	4.73	20	

The following samples were analyzed in this batch:

1006299-01B	1006299-02B	1006299-03B
1006299-04B	1006299-05B	1006299-06B
1006299-07B	1006299-08B	1006299-09B
1006299-10B	1006299-11B	1006299-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 24-Jun-10

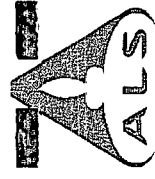
Client: Navajo Refining Company
Project: Lea Refinery Soil Barings
WorkOrder: 1006299

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronvm</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



10430 Shalimar Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 2

Customer Information				Project Information				ALS Work Order # 1006099															
Project Name				Lea Refinery				Parameter/Method Request for Analysis															
Project Number				NAV-10-002																			
Bill to Company				Navajo Refining Company																			
Invoice Attn				Darrell Moore																			
Address				P.O. Box 159																			
City/State/Zip				Artesia, NM 88211																			
Phone				(505) 748-3311																			
Fax				(505) 746-5421																			
e-Mail Address				dgboyer@SESI-NM.com																			
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold						
1	CSB-4 5'	6/4/10	0700	Sa:1	8	2	X	X	X	X	X												
2	10'		0710																				
3	20'		0715																				
4	30'		0725																				
5	40'		0735																				
6	50'		0745																				
7	60'		0805																				
8	70'		0815																				
9	80'		0825																				
10	CSB-4 90'	6/4/10	0835	Sa:1	8	2	X	X	X	X	X												
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)															
Relinquished by: <i>D. Boyer</i>				Date: 6/8/10				Time: 0800				Received by: <i>D. Boyer</i>				Date: 6/9/10				Time: 0800			
Relinquished by: <i>D. Boyer</i>				Date: 6/8/10				Time: 0800				Received by: <i>D. Boyer</i>				Date: 6/9/10				Time: 0800			
Logged by (Laboratory):				Date:				Time:				Checked by (Laboratory):				Date:				Time:			
Preservative Key: 1-HCl; 2-HNO ₃ ; 3-H ₂ SO ₄ ; 4-NaOH; 5-Na ₂ S ₂ O ₃ ; 6-NaHSO ₄ ; 7-Other: 8-4°C; 9-5035																							



Chain of Custody Form

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6195

Parameter/Method Request for Analysis

ALS Project Manager:	ALS Work Order #:	15699
----------------------	-------------------	-------

1

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Downloaded At: 11:53 11 September 2009

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **09-Jun-10 08:50**

Work Order: **1006299**

Received by: **RNG**

Checklist completed by Robert D. Harris
eSignature

09-Jun-10
Date

Reviewed by:

eSignature

Date

Matrices: soils/water

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

2.2c.1.8c

002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

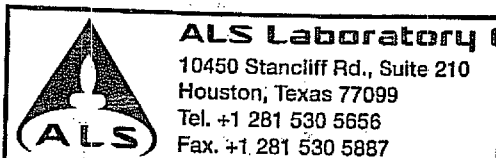
Regarding:

Comments:

CorrectiveAction:

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 869809950893
Sender's Name D. Boyer Phone 575 390-7767
Company SEST
Address 703 E. Clinton
City Hobbs State NM ZIP 88240
Our Internal Billing Reference 1V4V-02-002 332



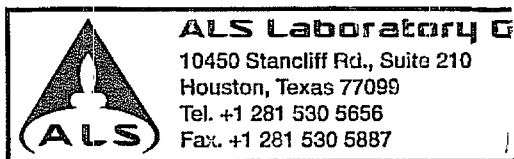
Group	CUSTODY SEAL <u>332</u>		Seal Broken By: <u>RNG</u>
	Date: <u>6/8/10</u>	Time: <u>0800</u>	Date: <u>6/9/10</u>
	Name: <u>D. Boyer</u>		
	Company: <u>SEST</u>		



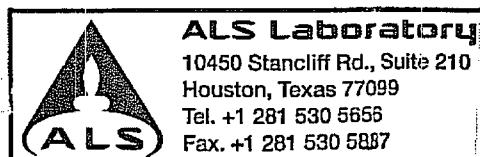
Group	CUSTODY SEAL		Seal Broken By: <u>RNG</u>
	Date: <u>6/8/10</u>	Time: <u>0830</u>	Date: <u>6/9/10</u>
	Name: <u>D. Boyer</u>		
	Company: <u>SEST</u>		

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 873133853497
Sender's Name D. Boyer Phone 575 390-7767
Company SEST
Address 703 E. Clinton
City Hobbs State NM ZIP 88240
Our Internal Billing Reference NND-10-003 707



Group	CUSTODY SEAL <u>207</u>		Seal Broken By: <u>RNG</u>
	Date: <u>6/8/10</u>	Time: <u>0800</u>	Date: <u>6/9/10</u>
	Name: <u>D. Boyer</u>		
	Company: <u>SEST</u>		



Group	CUSTODY SEAL <u>207</u>		Seal Broken By: <u>RNG</u>
	Date: <u>6/8/10</u>	Time: <u>0800</u>	Date: <u>6/9/10</u>
	Name: <u>D. Boyer</u>		
	Company: <u>SEST</u>		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

06-Jul-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: Lea Refinery Soil Borings

Work Order: **1006499**

Dear Darrell,

ALS Laboratory Group received 73 samples on 15-Jun-2010 11:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 125.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006499-01	WSB-1 10'	Soil		6/8/2010 10:50	6/15/2010 11:40	☐
1006499-02	WSB-1 20'	Soil		6/8/2010 11:00	6/15/2010 11:40	☐
1006499-03	WSB-1 30'	Soil		6/8/2010 11:10	6/15/2010 11:40	☐
1006499-04	WSB-1 40'	Soil		6/8/2010 11:20	6/15/2010 11:40	☐
1006499-05	WSB-1 50'	Soil		6/8/2010 11:25	6/15/2010 11:40	☐
1006499-06	WSB-1 60'	Soil		6/8/2010 11:35	6/15/2010 11:40	☐
1006499-07	WSB-1 70'	Soil		6/8/2010 11:45	6/15/2010 11:40	☐
1006499-08	WSB-1 80'	Soil		6/8/2010 12:45	6/15/2010 11:40	☐
1006499-09	WSB-1 90'	Soil		6/8/2010 12:55	6/15/2010 11:40	☐
1006499-10	WSB-1 100'	Soil		6/8/2010 13:05	6/15/2010 11:40	☐
1006499-11	WSB-1 110'	Soil		6/8/2010 13:15	6/15/2010 11:40	☐
1006499-12	WSB-2 10'	Soil		6/9/2010 07:15	6/15/2010 11:40	☐
1006499-13	WSB-2 20'	Soil		6/9/2010 07:25	6/15/2010 11:40	☐
1006499-14	WSB-2 30'	Soil		6/9/2010 08:20	6/15/2010 11:40	☐
1006499-15	WSB-2 40'	Soil		6/9/2010 08:30	6/15/2010 11:40	☐
1006499-16	WSB-3 10'	Soil		6/9/2010 09:20	6/15/2010 11:40	☐
1006499-17	WSB-3 20'	Soil		6/9/2010 09:30	6/15/2010 11:40	☐
1006499-18	WSB-3 30'	Soil		6/9/2010 09:40	6/15/2010 11:40	☐
1006499-19	WSB-3 40'	Soil		6/9/2010 09:50	6/15/2010 11:40	☐
1006499-20	WSB-3 50'	Soil		6/9/2010 10:00	6/15/2010 11:40	☐
1006499-21	WSB-3 60'	Soil		6/9/2010 10:10	6/15/2010 11:40	☐
1006499-22	WSB-3 70'	Soil		6/9/2010 10:20	6/15/2010 11:40	☐
1006499-23	WSB-3 80'	Soil		6/9/2010 10:40	6/15/2010 11:40	☐
1006499-24	WSB-3 90'	Soil		6/9/2010 10:50	6/15/2010 11:40	☐
1006499-25	WSB-3 100'	Soil		6/9/2010 11:05	6/15/2010 11:40	☐
1006499-26	WSB-3 110'	Soil		6/9/2010 11:15	6/15/2010 11:40	☐
1006499-27	WSB-4 10'	Soil		6/9/2010 13:30	6/15/2010 11:40	☐
1006499-28	WSB-4 20'	Soil		6/9/2010 13:40	6/15/2010 11:40	☐
1006499-29	WSB-5 10'	Soil		6/9/2010 14:30	6/15/2010 11:40	☐
1006499-30	WSB-5 20'	Soil		6/9/2010 14:40	6/15/2010 11:40	☐
1006499-31	WSB-6 10'	Soil		6/10/2010 07:00	6/15/2010 11:40	☐
1006499-32	WSB-6 20'	Soil		6/10/2010 07:10	6/15/2010 11:40	☐
1006499-33	WSB-6 30'	Soil		6/10/2010 07:20	6/15/2010 11:40	☐
1006499-34	WSB-6 40'	Soil		6/10/2010 07:30	6/15/2010 11:40	☐
1006499-35	WSB-6 50'	Soil		6/10/2010 07:50	6/15/2010 11:40	☐
1006499-36	WSB-6 60'	Soil		6/10/2010 08:00	6/15/2010 11:40	☐
1006499-37	WSB-6 70'	Soil		6/10/2010 08:25	6/15/2010 11:40	☐
1006499-38	WSB-6 80'	Soil		6/10/2010 08:35	6/15/2010 11:40	☐
1006499-39	WSB-6 90'	Soil		6/10/2010 08:45	6/15/2010 11:40	☐

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Work Order: 1006499

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1006499-40	WSB-6 100'	Soil		6/10/2010 08:55	6/15/2010 11:40	☐
1006499-41	WSB-6 110'	Soil		6/10/2010 09:00	6/15/2010 11:40	☐
1006499-42	WSB-4 30'	Soil		6/10/2010 11:15	6/15/2010 11:40	☐
1006499-43	WSB-4 40'	Soil		6/10/2010 11:25	6/15/2010 11:40	☐
1006499-44	WSB-4 50'	Soil		6/10/2010 11:35	6/15/2010 11:40	☐
1006499-45	WSB-4 60'	Soil		6/10/2010 12:40	6/15/2010 11:40	☐
1006499-46	WSB-4 70'	Soil		6/10/2010 12:50	6/15/2010 11:40	☐
1006499-47	WSB-4 80'	Soil		6/10/2010 13:00	6/15/2010 11:40	☐
1006499-48	WSB-4 90'	Soil		6/10/2010 13:10	6/15/2010 11:40	☐
1006499-49	WSB-4 100'	Soil		6/10/2010 13:20	6/15/2010 11:40	☐
1006499-50	WSB-4 110'	Soil		6/10/2010 13:30	6/15/2010 11:40	☐
1006499-51	WSB-5 30'	Soil		6/11/2010 06:55	6/15/2010 11:40	☐
1006499-52	WSB-5 40'	Soil		6/11/2010 07:05	6/15/2010 11:40	☐
1006499-53	WSB-5 50'	Soil		6/11/2010 07:20	6/15/2010 11:40	☐
1006499-54	WSB-5 60'	Soil		6/11/2010 07:30	6/15/2010 11:40	☐
1006499-55	WSB-5 70'	Soil		6/11/2010 07:40	6/15/2010 11:40	☐
1006499-56	WSB-5 80'	Soil		6/11/2010 07:50	6/15/2010 11:40	☐
1006499-57	WSB-5 90'	Soil		6/11/2010 08:00	6/15/2010 11:40	☐
1006499-58	WSB-5 100'	Soil		6/11/2010 08:10	6/15/2010 11:40	☐
1006499-59	WSB-5 110'	Soil		6/11/2010 08:20	6/15/2010 11:40	☐
1006499-60	WSB-7 10'	Soil		6/11/2010 12:00	6/15/2010 11:40	☐
1006499-61	WSB-7 20'	Soil		6/11/2010 12:10	6/15/2010 11:40	☐
1006499-62	WSB-7 30'	Soil		6/11/2010 13:25	6/15/2010 11:40	☐
1006499-63	WSB-7 40'	Soil		6/11/2010 13:35	6/15/2010 11:40	☐
1006499-64	WSB-7 50'	Soil		6/11/2010 13:40	6/15/2010 11:40	☐
1006499-65	WSB-7 60'	Soil		6/11/2010 13:50	6/15/2010 11:40	☐
1006499-66	WSB-7 70'	Soil		6/11/2010 14:00	6/15/2010 11:40	☐
1006499-67	WSB-7 80'	Soil		6/11/2010 14:10	6/15/2010 11:40	☐
1006499-68	WSB-7 90'	Soil		6/11/2010 14:30	6/15/2010 11:40	☐
1006499-69	WSB-7 100'	Soil		6/11/2010 14:40	6/15/2010 11:40	☐
1006499-70	WSB-7 110'	Soil		6/11/2010 14:50	6/15/2010 11:40	☐
1006499-71	Trip Blank 052410-13	Water		6/11/2010	6/15/2010 11:40	☐
1006499-72	Trip Blank 052810-59	Water		6/11/2010	6/15/2010 11:40	☐
1006499-73	Trip Blank 040810-36	Water		6/11/2010	6/15/2010 11:40	☐

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Work Order: 1006499

Case Narrative

Batch R92861, BTEX, Sample 1006499-29A: Surrogate failure for 1006499-29A; confirmed by reanalysis at dilution.

Batch R92863, BTEX, Sample 1006499-62A: Lowest practical dilution for 1006499-57A & 62A due to matrix.

Batch R92907, Method BTEX_W, Sample 1006572-02AMSD: Toluene outside control limits for MSD. RPD within limits.

Batch R92907, Method BTEX_W, Sample 1006572-02AMSD: Toluene outside control limits for MSD.

Batch R92887, BTEX, Sample 1006499-30A: Lowest practical dilution for 1006499-28A, 42A, 45A, 30A DUE TO MATRIX.

Batch R93007, Method BTEX_W, Sample 1006437-06AMS: MS/MSD outside control limit & RPD limit for MTBE.

Batch R93007, Method BTEX_W, Sample 1006437-06AMSD: 1st & 2nd CCV failed high for MTBE. NO hits reported in relevant samples.

Batch R93007, BTEX, Sample 1006499-51A: Lowest practical dilution for 1006499-51A, 46A, 52A due to matrix.

Batch R93037, Method BTEX_W, Sample CCV: 2nd CCV failed high for MTBE. No hits reported in relevant samples.

Batch R93037, Method BTEX_W, Sample BLCSW1-062310: Lowest practical dilution reported for 1006745-11A, 1006499-47A.

Batch R93159, Gasoline Range Organics, Sample 1006499-14B: Surrogate failure for 1006499-14A & 15A; confirmed by reanalysis at dilution.

Batch R93162, Gasoline Range Organics, Sample 1006499-29B: Surrogate failure for 1006499-29A; confirmed by reanalysis at dilution.

Batch R93163, Gasoline Range Organics, Sample 1006499-57B: Surrogate failure for 1006499-57A; confirmed by reanalysis at dilution.

Batch R93163, Gasoline Range Organics, Sample 1006499-57B: Surrogate failure for 1006499-57A; confirmed by reanalysis at dilution.

Batch 43777, TPH DRO/ORO, Sample 1006499-25B: Surrogate failing high-sample is ND-data ok to report

Batch 43777, TPH DRO/ORO, Sample 1006499-28B: Surrogate diluted out

Batch 43776, TPH DRO/ORO, Sample 1006499-15B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-42B: Surrogate out of limits due to co-elution with sample matrix; DF1 confirms

Batch 43783, TPH DRO/ORO, Sample 1006499-43B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-51B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-52B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-47B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-44B: Surrogate diluted out

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Case Narrative

Batch 43783, TPH DRO/ORO, Sample 1006499-53B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-46B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-45B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-54B: Surrogate out of limits due to co-elution with sample matrix; DF1 confirms

Batch 44178, Anions, Sample 1006499-70B: Chloride only reported in this analytical sequence

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 10'

Lab ID: 1006499-01

Collection Date: 6/8/2010 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 11:42 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 11:42 AM
Surr: 2-Fluorobiphenyl	114		70-130	%REC	1	6/17/2010 11:42 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 05:39 AM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/19/2010 05:39 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 08:38 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 08:38 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 08:38 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 08:38 PM
Surr: 4-Bromofluorobenzene	95.2		75-131	%REC	1	6/18/2010 08:38 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/18/2010 08:38 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	34.3		4.97	mg/Kg	1	6/29/2010 10:25 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/29/2010 10:25 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 20'

Lab ID: 1006499-02

Collection Date: 6/8/2010 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 01:00 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 01:00 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	6/17/2010 01:00 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 06:48 AM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/19/2010 06:48 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 08:58 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 08:58 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 08:58 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 08:58 PM
Surr: 4-Bromofluorobenzene	97.3		75-131	%REC	1	6/18/2010 08:58 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/18/2010 08:58 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	59.2		5.00	mg/Kg	1	6/29/2010 11:09 AM
Surr: Selenate (surr)	107		85-115	%REC	1	6/29/2010 11:09 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 30'

Lab ID: 1006499-03

Collection Date: 6/8/2010 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/16/2010 Analyst: KMB 6/17/2010 01:19 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/17/2010 01:19 PM
Surr: 2-Fluorobiphenyl	105			70-130 %REC	1	6/17/2010 01:19 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/19/2010 07:12 AM
Surr: 4-Bromofluorobenzene	103			70-130 %REC	1	6/19/2010 07:12 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/18/2010 09:18 PM
Toluene	ND			0.0010 mg/Kg	1	6/18/2010 09:18 PM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/18/2010 09:18 PM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/18/2010 09:18 PM
Surr: 4-Bromofluorobenzene	94.6			75-131 %REC	1	6/18/2010 09:18 PM
Surr: Trifluorotoluene	99.4			73-130 %REC	1	6/18/2010 09:18 PM
ANIONS						
Chloride	7.82		E300	4.98 mg/Kg	1	Prep Date: 6/28/2010 Analyst: DM 6/29/2010 11:23 AM
Surr: Selenate (surr)	105			85-115 %REC	1	6/29/2010 11:23 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-1 40'

Collection Date: 6/8/2010 11:20 AM

Work Order: 1006499

Lab ID: 1006499-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 01:38 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 01:38 PM
Surr: 2-Fluorobiphenyl	83.9		70-130	%REC	1	6/17/2010 01:38 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 07:35 AM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	6/19/2010 07:35 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 09:38 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 09:38 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 09:38 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 09:38 PM
Surr: 4-Bromofluorobenzene	97.3		75-131	%REC	1	6/18/2010 09:38 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/18/2010 09:38 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	37.0		4.97	mg/Kg	1	6/29/2010 11:38 AM
Surr: Selenate (surr)	106		85-115	%REC	1	6/29/2010 11:38 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 50'

Lab ID: 1006499-05

Collection Date: 6/8/2010 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 02:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 02:17 PM
Surr: 2-Fluorobiphenyl	98.8		70-130	%REC	1	6/17/2010 02:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 07:58 AM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/19/2010 07:58 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 09:58 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 09:58 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 09:58 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 09:58 PM
Surr: 4-Bromofluorobenzene	96.3		75-131	%REC	1	6/18/2010 09:58 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/18/2010 09:58 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	25.4		5.00	mg/Kg	1	6/29/2010 11:52 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/29/2010 11:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 60'

Lab ID: 1006499-06

Collection Date: 6/8/2010 11:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 02:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 02:36 PM
Surr: 2-Fluorobiphenyl	98.6		70-130	%REC	1	6/17/2010 02:36 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 08:21 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/19/2010 08:21 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 10:18 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 10:18 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 10:18 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 10:18 PM
Surr: 4-Bromofluorobenzene	96.5		75-131	%REC	1	6/18/2010 10:18 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/18/2010 10:18 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	6.70		5.00	mg/Kg	1	6/29/2010 03:49 PM
Surr: Selenate (surr)	107		85-115	%REC	1	6/29/2010 03:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 70'

Lab ID: 1006499-07

Collection Date: 6/8/2010 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 04:16 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 04:16 PM
Surr: 2-Fluorobiphenyl	94.6		70-130	%REC	1	6/17/2010 04:16 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/19/2010 08:45 AM
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	1	6/19/2010 08:45 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/18/2010 11:58 PM
Toluene	ND		0.0010	mg/Kg	1	6/18/2010 11:58 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/18/2010 11:58 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/18/2010 11:58 PM
Surr: 4-Bromofluorobenzene	98.0		75-131	%REC	1	6/18/2010 11:58 PM
Surr: Trifluorotoluene	106		73-130	%REC	1	6/18/2010 11:58 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		5.00	mg/Kg	1	6/29/2010 04:04 PM
Surr: Selenate (surr)	97.5		85-115	%REC	1	6/29/2010 04:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 80'

Lab ID: 1006499-08

Collection Date: 6/8/2010 12:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 03:54 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 03:54 PM
Surr: 2-Fluorobiphenyl	98.8		70-130	%REC	1	6/17/2010 03:54 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 06:02 PM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	6/21/2010 06:02 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 12:17 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 12:17 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 12:17 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 12:17 AM
Surr: 4-Bromofluorobenzene	98.3		75-131	%REC	1	6/19/2010 12:17 AM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/19/2010 12:17 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	8.56		4.95	mg/Kg	1	6/29/2010 04:18 PM
Surr: Selenate (surr)	107		85-115	%REC	1	6/29/2010 04:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 90'

Lab ID: 1006499-09

Collection Date: 6/8/2010 12:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 11:03 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 11:03 AM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/17/2010 11:03 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 06:25 PM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	6/21/2010 06:25 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 12:37 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 12:37 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 12:37 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 12:37 AM
Surr: 4-Bromofluorobenzene	97.1		75-131	%REC	1	6/19/2010 12:37 AM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/19/2010 12:37 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		4.96	mg/Kg	1	6/29/2010 04:33 PM
Surr: Selenate (surr)	100		85-115	%REC	1	6/29/2010 04:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-1 100'
Collection Date: 6/8/2010 01:05 PM

Work Order: 1006499
Lab ID: 1006499-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 11:23 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 11:23 AM
Surr: 2-Fluorobiphenyl	111		70-130	%REC	1	6/17/2010 11:23 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 06:49 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	6/21/2010 06:49 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 12:57 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 12:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 12:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 12:57 AM
Surr: 4-Bromofluorobenzene	96.7		75-131	%REC	1	6/19/2010 12:57 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/19/2010 12:57 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	5.74		4.98	mg/Kg	1	6/29/2010 04:48 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/29/2010 04:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-1 110'

Collection Date: 6/8/2010 01:15 PM

Work Order: 1006499

Lab ID: 1006499-11

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 11:42 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 11:42 AM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/17/2010 11:42 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 07:12 PM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	6/21/2010 07:12 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 01:17 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 01:17 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 01:17 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 01:17 AM
Surr: 4-Bromofluorobenzene	92.3		75-131	%REC	1	6/19/2010 01:17 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/19/2010 01:17 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	33.7		4.98	mg/Kg	1	6/29/2010 05:02 PM
Surr: Selenate (surr)	107		85-115	%REC	1	6/29/2010 05:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-2 10'

Lab ID: 1006499-12

Collection Date: 6/9/2010 07:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 12:02 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 12:02 PM
Surr: 2-Fluorobiphenyl	112		70-130	%REC	1	6/17/2010 12:02 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 07:35 PM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	6/21/2010 07:35 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 01:37 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 01:37 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 01:37 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 01:37 AM
Surr: 4-Bromofluorobenzene	97.5		75-131	%REC	1	6/19/2010 01:37 AM
Surr: Trifluorotoluene	103		73-130	%REC	1	6/19/2010 01:37 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	6.21		4.96	mg/Kg	1	6/29/2010 06:19 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/29/2010 06:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-2 20'
Collection Date: 6/9/2010 07:25 AM

Work Order: 1006499
Lab ID: 1006499-13
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	2.2		1.7	mg/Kg	1	6/17/2010 12:21 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 12:21 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	6/17/2010 12:21 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 07:59 PM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	6/21/2010 07:59 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 01:57 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 01:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 01:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 01:57 AM
Surr: 4-Bromofluorobenzene	95.5		75-131	%REC	1	6/19/2010 01:57 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/19/2010 01:57 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	9.37		5.00	mg/Kg	1	6/29/2010 05:31 PM
Surr: Selenate (surr)	112		85-115	%REC	1	6/29/2010 05:31 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-2 30'

Lab ID: 1006499-14

Collection Date: 6/9/2010 08:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	210		17	mg/Kg	10	6/29/2010 01:23 PM
TPH (Motor Oil Range)	110		34	mg/Kg	10	6/29/2010 01:23 PM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	10	6/29/2010 01:23 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	1.5		0.050	mg/Kg	1	6/21/2010 08:22 PM
Surr: 4-Bromofluorobenzene	137	S	70-130	%REC	1	6/21/2010 08:22 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:17 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 02:17 AM
Ethylbenzene	0.0056		0.0010	mg/Kg	1	6/19/2010 02:17 AM
Xylenes, Total	0.0074		0.0030	mg/Kg	1	6/19/2010 02:17 AM
Surr: 4-Bromofluorobenzene	104		75-131	%REC	1	6/19/2010 02:17 AM
Surr: Trifluorotoluene	94.6		73-130	%REC	1	6/19/2010 02:17 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	14.0		4.97	mg/Kg	1	6/29/2010 05:46 PM
Surr: Selenate (surr)	104		85-115	%REC	1	6/29/2010 05:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-2 40'

Lab ID: 1006499-15

Collection Date: 6/9/2010 08:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	810		42	mg/Kg	25	6/29/2010 01:23 PM
TPH (Motor Oil Range)	260		85	mg/Kg	25	6/29/2010 01:23 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	25	6/29/2010 01:23 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	4.0		0.050	mg/Kg	1	6/21/2010 08:45 PM
Surr: 4-Bromofluorobenzene	176	S	70-130	%REC	1	6/21/2010 08:45 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:37 AM
Toluene	0.0017		0.0010	mg/Kg	1	6/19/2010 02:37 AM
Ethylbenzene	0.083		0.0010	mg/Kg	1	6/19/2010 02:37 AM
Xylenes, Total	0.063		0.0030	mg/Kg	1	6/19/2010 02:37 AM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	1	6/19/2010 02:37 AM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/19/2010 02:37 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	15.7		4.99	mg/Kg	1	6/29/2010 06:00 PM
Surr: Selenate (surr)	105		85-115	%REC	1	6/29/2010 06:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 10'

Collection Date: 6/9/2010 09:20 AM

Work Order: 1006499

Lab ID: 1006499-16

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 01:19 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 01:19 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	6/17/2010 01:19 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 09:09 PM
Surr: 4-Bromofluorobenzene	117		70-130	%REC	1	6/21/2010 09:09 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:57 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 02:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 02:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 02:57 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	1	6/19/2010 02:57 AM
Surr: Trifluorotoluene	107		73-130	%REC	1	6/19/2010 02:57 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		4.98	mg/Kg	1	6/29/2010 07:03 PM
Surr: Selenate (surr)	103		85-115	%REC	1	6/29/2010 07:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
 Project: Lea Refinery Soil Borings
 Sample ID: WSB-3 20'
 Collection Date: 6/9/2010 09:30 AM

Work Order: 1006499
 Lab ID: 1006499-17
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 01:38 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 01:38 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	6/17/2010 01:38 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 09:32 PM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	6/21/2010 09:32 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 03:57 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 03:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 03:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 03:57 AM
Surr: 4-Bromofluorobenzene	96.7		75-131	%REC	1	6/19/2010 03:57 AM
Surr: Trifluorotoluene	107		73-130	%REC	1	6/19/2010 03:57 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		4.97	mg/Kg	1	6/29/2010 07:17 PM
Surr: Selenate (surr)	95.0		85-115	%REC	1	6/29/2010 07:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-3 30'

Lab ID: 1006499-18

Collection Date: 6/9/2010 09:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 01:58 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 01:58 PM
Surr: 2-Fluorobiphenyl	125		70-130	%REC	1	6/17/2010 01:58 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 10:19 PM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	6/21/2010 10:19 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 04:17 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 04:17 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 04:17 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 04:17 AM
Surr: 4-Bromofluorobenzene	94.0		75-131	%REC	1	6/19/2010 04:17 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/19/2010 04:17 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		4.95	mg/Kg	1	6/29/2010 07:32 PM
Surr: Selenate (surr)	96.3		85-115	%REC	1	6/29/2010 07:32 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-3 40'

Lab ID: 1006499-19

Collection Date: 6/9/2010 09:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 02:17 PM
TPH (Motor Oil Range)	4.2		3.4	mg/Kg	1	6/17/2010 02:17 PM
Surr: 2-Fluorobiphenyl	97.7		70-130	%REC	1	6/17/2010 02:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 10:42 PM
Surr: 4-Bromofluorobenzene	117		70-130	%REC	1	6/21/2010 10:42 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 04:37 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 04:37 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 04:37 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 04:37 AM
Surr: 4-Bromofluorobenzene	97.0		75-131	%REC	1	6/19/2010 04:37 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/19/2010 04:37 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		4.96	mg/Kg	1	6/29/2010 07:46 PM
Surr: Selenate (surr)	97.0		85-115	%REC	1	6/29/2010 07:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-3 50'
Collection Date: 6/9/2010 10:00 AM

Work Order: 1006499
Lab ID: 1006499-20
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 02:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 02:36 PM
Surr: 2-Fluorobiphenyl	118		70-130	%REC	1	6/17/2010 02:36 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 11:05 PM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	6/21/2010 11:05 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 04:56 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 04:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 04:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 04:56 AM
Surr: 4-Bromofluorobenzene	94.3		75-131	%REC	1	6/19/2010 04:56 AM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/19/2010 04:56 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	6.57		4.97	mg/Kg	1	6/30/2010 08:23 AM
Surr: Selenate (surr)	95.6		85-115	%REC	1	6/30/2010 08:23 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 60'

Collection Date: 6/9/2010 10:10 AM

Work Order: 1006499

Lab ID: 1006499-21

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 04:16 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 04:16 PM
Surr: 2-Fluorobiphenyl	98.2		70-130	%REC	1	6/17/2010 04:16 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 11:28 PM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	6/21/2010 11:28 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 06:36 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 06:36 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 06:36 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 06:36 AM
Surr: 4-Bromofluorobenzene	96.5		75-131	%REC	1	6/19/2010 06:36 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/19/2010 06:36 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	10.9		5.00	mg/Kg	1	6/30/2010 01:33 PM
Surr: Selenate (surr)	107		85-115	%REC	1	6/30/2010 01:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-3 70'
Collection Date: 6/9/2010 10:20 AM

Work Order: 1006499
Lab ID: 1006499-22
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 05:14 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 05:14 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	6/17/2010 05:14 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/21/2010 11:52 PM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	6/21/2010 11:52 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 06:56 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 06:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 06:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 06:56 AM
Surr: 4-Bromofluorobenzene	97.7		75-131	%REC	1	6/19/2010 06:56 AM
Surr: Trifluorotoluene	104		73-130	%REC	1	6/19/2010 06:56 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	11.9		4.97	mg/Kg	1	6/30/2010 01:50 AM
Surr: Selenate (surr)	108		85-115	%REC	1	6/30/2010 01:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 80'

Collection Date: 6/9/2010 10:40 AM

Work Order: 1006499

Lab ID: 1006499-23

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 05:33 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 05:33 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	1	6/17/2010 05:33 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 12:15 AM
Surr: 4-Bromofluorobenzene	116		70-130	%REC	1	6/22/2010 12:15 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 07:16 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 07:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 07:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 07:16 AM
Surr: 4-Bromofluorobenzene	97.8		75-131	%REC	1	6/19/2010 07:16 AM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/19/2010 07:16 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	12.2		4.99	mg/Kg	1	6/30/2010 02:05 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/30/2010 02:05 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-3 90'
Collection Date: 6/9/2010 10:50 AM

Work Order: 1006499
Lab ID: 1006499-24
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 05:53 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 05:53 PM
Surr: 2-Fluorobiphenyl	99.0		70-130	%REC	1	6/17/2010 05:53 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 12:38 AM
Surr: 4-Bromofluorobenzene	114		70-130	%REC	1	6/22/2010 12:38 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 07:36 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 07:36 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 07:36 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 07:36 AM
Surr: 4-Bromofluorobenzene	93.9		75-131	%REC	1	6/19/2010 07:36 AM
Surr: Trifluorotoluene	98.1		73-130	%REC	1	6/19/2010 07:36 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	43.8		4.97	mg/Kg	1	6/30/2010 02:19 AM
Surr: Selenate (surr)	106		85-115	%REC	1	6/30/2010 02:19 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-3 100'
Collection Date: 6/9/2010 11:05 AM

Work Order: 1006499
Lab ID: 1006499-25
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 6/16/2010 Analyst: KMB 6/17/2010 06:12 PM
TPH (Motor Oil Range)	ND			3.4 mg/Kg	1	6/17/2010 06:12 PM
Surr: 2-Fluorobiphenyl	134	S		70-130 %REC	1	6/17/2010 06:12 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	1	Analyst: KKP 6/22/2010 01:02 AM
Surr: 4-Bromofluorobenzene	111			70-130 %REC	1	6/22/2010 01:02 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	1	Analyst: KKP 6/19/2010 07:56 AM
Toluene	ND			0.0010 mg/Kg	1	6/19/2010 07:56 AM
Ethylbenzene	ND			0.0010 mg/Kg	1	6/19/2010 07:56 AM
Xylenes, Total	ND			0.0030 mg/Kg	1	6/19/2010 07:56 AM
Surr: 4-Bromofluorobenzene	95.5			75-131 %REC	1	6/19/2010 07:56 AM
Surr: Trifluorotoluene	102			73-130 %REC	1	6/19/2010 07:56 AM
ANIONS						
Chloride	40.0		E300	4.99 mg/Kg	1	Prep Date: 6/28/2010 Analyst: DM 6/30/2010 02:34 AM
Surr: Selenate (surr)	98.4			85-115 %REC	1	6/30/2010 02:34 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 110'

Collection Date: 6/9/2010 11:15 AM

Work Order: 1006499

Lab ID: 1006499-26

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 06:31 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 06:31 PM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/17/2010 06:31 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 03:22 AM
Surr: 4-Bromofluorobenzene	116		70-130	%REC	1	6/22/2010 03:22 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 08:16 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 08:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 08:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 08:16 AM
Surr: 4-Bromofluorobenzene	92.4		75-131	%REC	1	6/19/2010 08:16 AM
Surr: Trifluorotoluene	100		73-130	%REC	1	6/19/2010 08:16 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	13.7		4.98	mg/Kg	1	6/30/2010 03:04 PM
Surr: Selenate (surr)	89.0		85-115	%REC	1	6/30/2010 03:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-4 10'
Collection Date: 6/9/2010 01:30 PM

Work Order: 1006499
Lab ID: 1006499-27
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 06:51 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 06:51 PM
Surr: 2-Fluorobiphenyl	116		70-130	%REC	1	6/17/2010 06:51 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 03:45 AM
Surr: 4-Bromofluorobenzene	114		70-130	%REC	1	6/22/2010 03:45 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 09:35 AM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 09:35 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 09:35 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 09:35 AM
Surr: 4-Bromofluorobenzene	92.9		75-131	%REC	1	6/19/2010 09:35 AM
Surr: Trifluorotoluene	98.4		73-130	%REC	1	6/19/2010 09:35 AM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	ND		5.00	mg/Kg	1	6/30/2010 03:32 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/30/2010 03:32 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 20'

Collection Date: 6/9/2010 01:40 PM

Work Order: 1006499

Lab ID: 1006499-28

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	1,600		85	mg/Kg	50	6/29/2010 11:51 AM
TPH (Motor Oil Range)	690		170	mg/Kg	50	6/29/2010 11:51 AM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	50	6/29/2010 11:51 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	270		62	mg/Kg	1250	6/23/2010 03:04 PM
Surr: 4-Bromofluorobenzene	87.9		70-130	%REC	1250	6/23/2010 03:04 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 03:17 AM
Toluene	ND		0.25	mg/Kg	250	6/22/2010 03:17 AM
Ethylbenzene	6.8		0.25	mg/Kg	250	6/22/2010 03:17 AM
Xylenes, Total	11		0.75	mg/Kg	250	6/22/2010 03:17 AM
Surr: 4-Bromofluorobenzene	113		75-131	%REC	250	6/22/2010 03:17 AM
Surr: Trifluorotoluene	86.6		73-130	%REC	250	6/22/2010 03:17 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	5.66		4.99	mg/Kg	1	6/30/2010 03:47 AM
Surr: Selenate (surr)	105		85-115	%REC	1	6/30/2010 03:47 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 10'

Collection Date: 6/9/2010 02:30 PM

Work Order: 1006499

Lab ID: 1006499-29

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	190		8.5	mg/Kg	5	6/29/2010 11:51 AM
TPH (Motor Oil Range)	130		17	mg/Kg	5	6/29/2010 11:51 AM
Surr: 2-Fluorobiphenyl	72.3		70-130	%REC	5	6/29/2010 11:51 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	5.3		0.050	mg/Kg	1	6/22/2010 06:52 AM
Surr: 4-Bromofluorobenzene	316	S	70-130	%REC	1	6/22/2010 06:52 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 09:55 AM
Toluene	0.0017		0.0010	mg/Kg	1	6/19/2010 09:55 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 09:55 AM
Xylenes, Total	0.033		0.0030	mg/Kg	1	6/19/2010 09:55 AM
Surr: 4-Bromofluorobenzene	270	S	75-131	%REC	1	6/19/2010 09:55 AM
Surr: Trifluorotoluene	93.2		73-130	%REC	1	6/19/2010 09:55 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	14.6		4.96	mg/Kg	1	6/30/2010 04:01 AM
Surr: Selenate (surr)	105		85-115	%REC	1	6/30/2010 04:01 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 20'

Collection Date: 6/9/2010 02:40 PM

Work Order: 1006499

Lab ID: 1006499-30

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	480		17	mg/Kg	10	6/29/2010 11:32 AM
TPH (Motor Oil Range)	130		34	mg/Kg	10	6/29/2010 11:32 AM
Surr: 2-Fluorobiphenyl	129		70-130	%REC	10	6/29/2010 11:32 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	140		62	mg/Kg	1250	6/23/2010 03:51 PM
Surr: 4-Bromofluorobenzene	88.3		70-130	%REC	1250	6/23/2010 03:51 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 04:32 AM
Toluene	0.53		0.25	mg/Kg	250	6/22/2010 04:32 AM
Ethylbenzene	6.3		0.25	mg/Kg	250	6/22/2010 04:32 AM
Xylenes, Total	13		0.75	mg/Kg	250	6/22/2010 04:32 AM
Surr: 4-Bromofluorobenzene	93.7		75-131	%REC	250	6/22/2010 04:32 AM
Surr: Trifluorotoluene	85.8		73-130	%REC	250	6/22/2010 04:32 AM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	27.0		5.00	mg/Kg	1	6/30/2010 04:16 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/30/2010 04:16 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 10'

Lab ID: 1006499-31

Collection Date: 6/10/2010 07:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 08:47 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 08:47 PM
Surr: 2-Fluorobiphenyl	93.6		70-130	%REC	1	6/17/2010 08:47 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 04:08 AM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	6/22/2010 04:08 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 02:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 02:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 02:07 PM
Surr: 4-Bromofluorobenzene	90.8		75-131	%REC	1	6/19/2010 02:07 PM
Surr: Trifluorotoluene	93.7		73-130	%REC	1	6/19/2010 02:07 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	67.3		4.99	mg/Kg	1	6/30/2010 04:30 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/30/2010 04:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 20'

Collection Date: 6/10/2010 07:10 AM

Work Order: 1006499

Lab ID: 1006499-32

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 09:07 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 09:07 PM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	1	6/17/2010 09:07 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 04:32 AM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	6/22/2010 04:32 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 02:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 02:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 02:27 PM
Surr: 4-Bromofluorobenzene	93.2		75-131	%REC	1	6/19/2010 02:27 PM
Surr: Trifluorotoluene	93.5		73-130	%REC	1	6/19/2010 02:27 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	65.8		4.94	mg/Kg	1	6/30/2010 02:02 PM
Surr: Selenate (surr)	102		85-115	%REC	1	6/30/2010 02:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-6 30'
Collection Date: 6/10/2010 07:20 AM

Work Order: 1006499
Lab ID: 1006499-33
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 09:26 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 09:26 PM
Surr: 2-Fluorobiphenyl	124		70-130	%REC	1	6/17/2010 09:26 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 04:55 AM
Surr: 4-Bromofluorobenzene	116		70-130	%REC	1	6/22/2010 04:55 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 02:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 02:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 02:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 02:47 PM
Surr: 4-Bromofluorobenzene	89.9		75-131	%REC	1	6/19/2010 02:47 PM
Surr: Trifluorotoluene	94.7		73-130	%REC	1	6/19/2010 02:47 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	19.1		4.95	mg/Kg	1	6/30/2010 04:59 AM
Surr: Selenate (surr)	100		85-115	%REC	1	6/30/2010 04:59 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 40'

Lab ID: 1006499-34

Collection Date: 6/10/2010 07:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 09:45 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 09:45 PM
Surr: 2-Fluorobiphenyl	124		70-130	%REC	1	6/17/2010 09:45 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 05:18 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/22/2010 05:18 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 03:07 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 03:07 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 03:07 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 03:07 PM
Surr: 4-Bromofluorobenzene	95.5		75-131	%REC	1	6/19/2010 03:07 PM
Surr: Trifluorotoluene	95.8		73-130	%REC	1	6/19/2010 03:07 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	42.0		4.96	mg/Kg	1	6/30/2010 05:14 AM
Surr: Selenate (surr)	103		85-115	%REC	1	6/30/2010 05:14 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-6 50'
Collection Date: 6/10/2010 07:50 AM

Work Order: 1006499
Lab ID: 1006499-35
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 10:05 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 10:05 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	1	6/17/2010 10:05 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 10:26 PM
Surr: 4-Bromofluorobenzene	78.7		70-130	%REC	1	6/22/2010 10:26 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 03:27 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 03:27 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 03:27 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 03:27 PM
Surr: 4-Bromofluorobenzene	95.1		75-131	%REC	1	6/19/2010 03:27 PM
Surr: Trifluorotoluene	95.3		73-130	%REC	1	6/19/2010 03:27 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	47.9		4.97	mg/Kg	1	6/30/2010 02:17 PM
Surr: Selenate (surr)	92.1		85-115	%REC	1	6/30/2010 02:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 60'

Collection Date: 6/10/2010 08:00 AM

Work Order: 1006499

Lab ID: 1006499-36

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 10:24 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 10:24 PM
Surr: 2-Fluorobiphenyl	107		70-130	%REC	1	6/17/2010 10:24 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 10:50 PM
Surr: 4-Bromofluorobenzene	81.4		70-130	%REC	1	6/22/2010 10:50 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 03:47 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 03:47 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 03:47 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 03:47 PM
Surr: 4-Bromofluorobenzene	90.3		75-131	%REC	1	6/19/2010 03:47 PM
Surr: Trifluorotoluene	94.0		73-130	%REC	1	6/19/2010 03:47 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	58.0		4.95	mg/Kg	1	6/30/2010 04:08 PM
Surr: Selenate (surr)	99.6		85-115	%REC	1	6/30/2010 04:08 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 70'

Lab ID: 1006499-37

Collection Date: 6/10/2010 08:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 05:33 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 05:33 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	1	6/17/2010 05:33 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 11:13 PM
Surr: 4-Bromofluorobenzene	75.2		70-130	%REC	1	6/22/2010 11:13 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 04:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 04:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 04:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 04:43 PM
Surr: 4-Bromofluorobenzene	91.0		75-131	%REC	1	6/19/2010 04:43 PM
Surr: Trifluorotoluene	96.2		73-130	%REC	1	6/19/2010 04:43 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	50.7		5.00	mg/Kg	1	6/30/2010 06:27 AM
Surr: Selenate (surr)	98.4		85-115	%REC	1	6/30/2010 06:27 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 80'

Collection Date: 6/10/2010 08:35 AM

Work Order: 1006499

Lab ID: 1006499-38

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 05:14 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 05:14 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	6/17/2010 05:14 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 11:36 PM
Surr: 4-Bromofluorobenzene	82.3		70-130	%REC	1	6/22/2010 11:36 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 05:03 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 05:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 05:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 05:03 PM
Surr: 4-Bromofluorobenzene	95.9		75-131	%REC	1	6/19/2010 05:03 PM
Surr: Trifluorotoluene	98.8		73-130	%REC	1	6/19/2010 05:03 PM
ANIONS						
			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	55.2		4.98	mg/Kg	1	6/30/2010 06:41 AM
Surr: Selenate (surr)	102		85-115	%REC	1	6/30/2010 06:41 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 90'

Lab ID: 1006499-39

Collection Date: 6/10/2010 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 04:54 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 04:54 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	1	6/17/2010 04:54 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010
Surr: 4-Bromofluorobenzene	82.1		70-130	%REC	1	6/23/2010
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 05:23 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 05:23 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 05:23 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 05:23 PM
Surr: 4-Bromofluorobenzene	92.6		75-131	%REC	1	6/19/2010 05:23 PM
Surr: Trifluorotoluene	97.7		73-130	%REC	1	6/19/2010 05:23 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	39.2		4.97	mg/Kg	1	6/30/2010 02:46 PM
Surr: Selenate (surr)	105		85-115	%REC	1	6/30/2010 02:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 100'

Collection Date: 6/10/2010 08:55 AM

Work Order: 1006499

Lab ID: 1006499-40

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 04:35 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 04:35 PM
Surr: 2-Fluorobiphenyl	111		70-130	%REC	1	6/17/2010 04:35 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 12:23 AM
Surr: 4-Bromofluorobenzene	80.0		70-130	%REC	1	6/23/2010 12:23 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 05:43 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 05:43 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 05:43 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 05:43 PM
Surr: 4-Bromofluorobenzene	93.7		75-131	%REC	1	6/19/2010 05:43 PM
Surr: Trifluorotoluene	96.6		73-130	%REC	1	6/19/2010 05:43 PM
ANIONS			E300		Prep Date: 6/28/2010	Analyst: DM
Chloride	35.7		4.96	mg/Kg	1	6/30/2010 07:11 AM
Surr: Selenate (surr)	101		85-115	%REC	1	6/30/2010 07:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 110'

Lab ID: 1006499-41

Collection Date: 6/10/2010 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/19/2010 01:51 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/19/2010 01:51 PM
Surr: 2-Fluorobiphenyl	110		70-130	%REC	1	6/19/2010 01:51 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 12:46 AM
Surr: 4-Bromofluorobenzene	81.8		70-130	%REC	1	6/23/2010 12:46 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 07:35 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 07:35 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 07:35 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 07:35 PM
Surr: 4-Bromofluorobenzene	91.5		75-131	%REC	1	6/19/2010 07:35 PM
Surr: Trifluorotoluene	98.2		73-130	%REC	1	6/19/2010 07:35 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	26.6		5.00	mg/Kg	1	7/1/2010 08:39 PM
Surr: Selenate (surr)	96.7		85-115	%REC	1	7/1/2010 08:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 30'

Collection Date: 6/10/2010 11:15 AM

Work Order: 1006499

Lab ID: 1006499-42

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	1,000		42	mg/Kg	25	6/29/2010 05:28 PM
TPH (Motor Oil Range)	400		85	mg/Kg	25	6/29/2010 05:28 PM
Surr: 2-Fluorobiphenyl	611	S	70-130	%REC	25	6/29/2010 05:28 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	300		62	mg/Kg	1250	6/23/2010 04:15 PM
Surr: 4-Bromofluorobenzene	90.3		70-130	%REC	1250	6/23/2010 04:15 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 03:35 AM
Toluene	1.6		0.25	mg/Kg	250	6/22/2010 03:35 AM
Ethylbenzene	20		0.25	mg/Kg	250	6/22/2010 03:35 AM
Xylenes, Total	30		0.75	mg/Kg	250	6/22/2010 03:35 AM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	250	6/22/2010 03:35 AM
Surr: Trifluorotoluene	88.1		73-130	%REC	250	6/22/2010 03:35 AM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	7.53		4.94	mg/Kg	1	7/1/2010 09:23 PM
Surr: Selenate (surr)	93.6		85-115	%REC	1	7/1/2010 09:23 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-4 40'
Collection Date: 6/10/2010 11:25 AM

Work Order: 1006499
Lab ID: 1006499-43
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	2,700		SW8015M	170 mg/Kg	100	Analyst: KMB 6/29/2010 05:48 PM
TPH (Motor Oil Range)	800			340 mg/Kg	100	6/29/2010 05:48 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 05:48 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	470		SW8015	62 mg/Kg	1250	Analyst: KKP 6/23/2010 04:39 PM
Surr: 4-Bromofluorobenzene	93.2		70-130	%REC	1250	6/23/2010 04:39 PM
BTEX						
Benzene	ND		SW8021B	0.25 mg/Kg	250	Analyst: KKP 6/23/2010 09:58 PM
Toluene	0.40			0.25 mg/Kg	250	6/23/2010 09:58 PM
Ethylbenzene	13			1.2 mg/Kg	1250	6/22/2010 04:51 AM
Xylenes, Total	17			3.8 mg/Kg	1250	6/22/2010 04:51 AM
Surr: 4-Bromofluorobenzene	88.8		75-131	%REC	250	6/23/2010 09:58 PM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	1250	6/22/2010 04:51 AM
Surr: Trifluorotoluene	90.1		73-130	%REC	250	6/23/2010 09:58 PM
Surr: Trifluorotoluene	82.0		73-130	%REC	1250	6/22/2010 04:51 AM
ANIONS						
Chloride	14.0		E300	5.00 mg/Kg	1	Prep Date: 6/30/2010 Analyst: JBA 7/1/2010 09:37 PM
Surr: Selenate (surr)	92.4		85-115	%REC	1	7/1/2010 09:37 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-4 50'
Collection Date: 6/10/2010 11:35 AM

Work Order: 1006499
Lab ID: 1006499-44
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	2,600		170	mg/Kg	100	6/29/2010 06:07 PM
TPH (Motor Oil Range)	810		340	mg/Kg	100	6/29/2010 06:07 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 06:07 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	340		62	mg/Kg	1250	6/23/2010 05:02 PM
Surr: 4-Bromofluorobenzene	85.2		70-130	%REC	1250	6/23/2010 05:02 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 03:54 AM
Toluene	0.98		0.25	mg/Kg	250	6/22/2010 03:54 AM
Ethylbenzene	21		0.25	mg/Kg	250	6/22/2010 03:54 AM
Xylenes, Total	31		0.75	mg/Kg	250	6/22/2010 03:54 AM
Surr: 4-Bromofluorobenzene	101		75-131	%REC	250	6/22/2010 03:54 AM
Surr: Trifluorotoluene	87.6		73-130	%REC	250	6/22/2010 03:54 AM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	22.6		4.96	mg/Kg	1	7/1/2010 09:52 PM
Surr: Selenate (surr)	91.1		85-115	%REC	1	7/1/2010 09:52 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 60'

Collection Date: 6/10/2010 12:40 PM

Work Order: 1006499

Lab ID: 1006499-45

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	3,300		170	mg/Kg	100	6/29/2010 07:48 PM
TPH (Motor Oil Range)	1,200		340	mg/Kg	100	6/29/2010 07:48 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 07:48 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	250		62	mg/Kg	1250	6/23/2010 06:01 PM
Surr: 4-Bromofluorobenzene	84.9		70-130	%REC	1250	6/23/2010 06:01 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 04:13 AM
Toluene	0.29		0.25	mg/Kg	250	6/22/2010 04:13 AM
Ethylbenzene	8.9		0.25	mg/Kg	250	6/22/2010 04:13 AM
Xylenes, Total	7.1		0.75	mg/Kg	250	6/22/2010 04:13 AM
Surr: 4-Bromofluorobenzene	92.8		75-131	%REC	250	6/22/2010 04:13 AM
Surr: Trifluorotoluene	82.7		73-130	%REC	250	6/22/2010 04:13 AM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	23.2		5.00	mg/Kg	1	7/1/2010 10:06 PM
Surr: Selenate (surr)	88.5		85-115	%REC	1	7/1/2010 10:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-4 70'

Lab ID: 1006499-46

Collection Date: 6/10/2010 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	2,800		170	mg/Kg	100	6/29/2010 08:26 PM
TPH (Motor Oil Range)	1,200		340	mg/Kg	100	6/29/2010 08:26 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 08:26 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	67		62	mg/Kg	1250	6/23/2010 06:25 PM
Surr: 4-Bromofluorobenzene	95.6		70-130	%REC	1250	6/23/2010 06:25 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 01:50 PM
Toluene	ND		0.25	mg/Kg	250	6/22/2010 01:50 PM
Ethylbenzene	1.7		0.25	mg/Kg	250	6/22/2010 01:50 PM
Xylenes, Total	1.5		0.75	mg/Kg	250	6/22/2010 01:50 PM
Surr: 4-Bromofluorobenzene	87.5		75-131	%REC	250	6/22/2010 01:50 PM
Surr: Trifluorotoluene	84.2		73-130	%REC	250	6/22/2010 01:50 PM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	16.5		5.00	mg/Kg	1	7/1/2010 10:50 PM
Surr: Selenate (surr)	87.7		85-115	%REC	1	7/1/2010 10:50 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-4 80'
Collection Date: 6/10/2010 01:00 PM

Work Order: 1006499
Lab ID: 1006499-47
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	3,500		170	mg/Kg	100	6/29/2010 04:11 PM
TPH (Motor Oil Range)	1,100		340	mg/Kg	100	6/29/2010 04:11 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 04:11 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	150		62	mg/Kg	1250	6/23/2010 06:48 PM
Surr: 4-Bromofluorobenzene	83.6		70-130	%REC	1250	6/23/2010 06:48 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/23/2010 10:15 PM
Toluene	0.25		0.25	mg/Kg	250	6/23/2010 10:15 PM
Ethylbenzene	4.4		0.25	mg/Kg	250	6/23/2010 10:15 PM
Xylenes, Total	4.2		0.75	mg/Kg	250	6/23/2010 10:15 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	250	6/23/2010 10:15 PM
Surr: Trifluorotoluene	90.1		73-130	%REC	250	6/23/2010 10:15 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	27.2		4.96	mg/Kg	1	7/1/2010 11:04 PM
Surr: Selenate (surr)	95.3		85-115	%REC	1	7/1/2010 11:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 90'

Collection Date: 6/10/2010 01:10 PM

Work Order: 1006499

Lab ID: 1006499-48

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	380		17	mg/Kg	10	6/29/2010 04:30 PM
TPH (Motor Oil Range)	210		34	mg/Kg	10	6/29/2010 04:30 PM
Surr: 2-Fluorobiphenyl	110		70-130	%REC	10	6/29/2010 04:30 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	5.1		0.25	mg/Kg	5	6/22/2010 07:04 PM
Surr: 4-Bromofluorobenzene	89.0		70-130	%REC	5	6/22/2010 07:04 PM
BTEX			SW8021B			Analyst: WLR
Benzene	ND		0.0010	mg/Kg	1	6/24/2010 02:17 PM
Toluene	ND		0.0010	mg/Kg	1	6/24/2010 02:17 PM
Ethylbenzene	0.0060		0.0010	mg/Kg	1	6/24/2010 02:17 PM
Xylenes, Total	0.011		0.0030	mg/Kg	1	6/24/2010 02:17 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1	6/24/2010 02:17 PM
Surr: Trifluorotoluene	91.0		73-130	%REC	1	6/24/2010 02:17 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	11.6		4.95	mg/Kg	1	7/1/2010 11:19 PM
Surr: Selenate (surr)	91.4		85-115	%REC	1	7/1/2010 11:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-4 100'
Collection Date: 6/10/2010 01:20 PM

Work Order: 1006499
Lab ID: 1006499-49
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	24		1.7	mg/Kg	1	6/29/2010 04:11 PM
TPH (Motor Oil Range)	23		3.4	mg/Kg	1	6/29/2010 04:11 PM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	6/29/2010 04:11 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 03:29 AM
Surr: 4-Bromofluorobenzene	76.7		70-130	%REC	1	6/23/2010 03:29 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 08:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 08:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 08:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 08:52 PM
Surr: 4-Bromofluorobenzene	95.0		75-131	%REC	1	6/19/2010 08:52 PM
Surr: Trifluorotoluene	105		73-130	%REC	1	6/19/2010 08:52 PM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	5.71		5.00	mg/Kg	1	7/1/2010 11:34 PM
Surr: Selenate (surr)	92.4		85-115	%REC	1	7/1/2010 11:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 110'

Collection Date: 6/10/2010 01:30 PM

Work Order: 1006499

Lab ID: 1006499-50

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	2.3		1.7	mg/Kg	1	6/29/2010 04:30 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/29/2010 04:30 PM
Surr: 2-Fluorobiphenyl	73.7		70-130	%REC	1	6/29/2010 04:30 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 04:39 AM
Surr: 4-Bromofluorobenzene	77.7		70-130	%REC	1	6/23/2010 04:39 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 09:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 09:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 09:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 09:12 PM
Surr: 4-Bromofluorobenzene	93.1		75-131	%REC	1	6/19/2010 09:12 PM
Surr: Trifluorotoluene	99.9		73-130	%REC	1	6/19/2010 09:12 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	9.61		4.98	mg/Kg	1	7/1/2010 11:48 PM
Surr: Selenate (surr)	84.3	S	85-115	%REC	1	7/1/2010 11:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 30'

Lab ID: 1006499-51

Collection Date: 6/11/2010 06:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	2,100		85	mg/Kg	50	6/29/2010 04:50 PM
TPH (Motor Oil Range)	810		170	mg/Kg	50	6/29/2010 04:50 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	50	6/29/2010 04:50 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	110		62	mg/Kg	1250	6/23/2010 07:35 PM
Surr: 4-Bromofluorobenzene	88.3		70-130	%REC	1250	6/23/2010 07:35 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 02:27 PM
Toluene	0.25		0.25	mg/Kg	250	6/22/2010 02:27 PM
Ethylbenzene	4.4		0.25	mg/Kg	250	6/22/2010 02:27 PM
Xylenes, Total	7.3		0.75	mg/Kg	250	6/22/2010 02:27 PM
Surr: 4-Bromofluorobenzene	114		75-131	%REC	250	6/22/2010 02:27 PM
Surr: Trifluorotoluene	88.8		73-130	%REC	250	6/22/2010 02:27 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	7.73		5.00	mg/Kg	1	7/2/2010 12:03 AM
Surr: Selenate (surr)	96.7		85-115	%REC	1	7/2/2010 12:03 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 40'

Lab ID: 1006499-52

Collection Date: 6/11/2010 07:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	5,100		170	mg/Kg	100	6/29/2010 05:09 PM
TPH (Motor Oil Range)	1,800		340	mg/Kg	100	6/29/2010 05:09 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 05:09 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	400		62	mg/Kg	1250	6/23/2010 07:59 PM
Surr: 4-Bromofluorobenzene	86.1		70-130	%REC	1250	6/23/2010 07:59 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/22/2010 02:46 PM
Toluene	3.3		0.25	mg/Kg	250	6/22/2010 02:46 PM
Ethylbenzene	38		1.2	mg/Kg	1250	6/23/2010 09:42 PM
Xylenes, Total	59		0.75	mg/Kg	250	6/22/2010 02:46 PM
Surr: 4-Bromofluorobenzene	108		75-131	%REC	1250	6/23/2010 09:42 PM
Surr: 4-Bromofluorobenzene	106		75-131	%REC	250	6/22/2010 02:46 PM
Surr: Trifluorotoluene	92.9		73-130	%REC	1250	6/23/2010 09:42 PM
Surr: Trifluorotoluene	106		73-130	%REC	250	6/22/2010 02:46 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	17.2		4.95	mg/Kg	1	7/2/2010 12:17 AM
Surr: Selenate (surr)	99.5		85-115	%REC	1	7/2/2010 12:17 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 50'

Collection Date: 6/11/2010 07:20 AM

Work Order: 1006499

Lab ID: 1006499-53

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	4,800		170	mg/Kg	100	6/29/2010 07:25 PM
TPH (Motor Oil Range)	2,000		340	mg/Kg	100	6/29/2010 07:25 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	6/29/2010 07:25 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	610		62	mg/Kg	1250	6/23/2010 08:22 PM
Surr: 4-Bromofluorobenzene	93.0		70-130	%REC	1250	6/23/2010 08:22 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	6/23/2010 10:32 PM
Toluene	1.4		0.25	mg/Kg	250	6/23/2010 10:32 PM
Ethylbenzene	12		1.2	mg/Kg	1250	6/22/2010 04:01 PM
Xylenes, Total	24		3.8	mg/Kg	1250	6/22/2010 04:01 PM
Surr: 4-Bromofluorobenzene	94.7		75-131	%REC	250	6/23/2010 10:32 PM
Surr: 4-Bromofluorobenzene	95.1		75-131	%REC	1250	6/22/2010 04:01 PM
Surr: Trifluorotoluene	97.3		73-130	%REC	250	6/23/2010 10:32 PM
Surr: Trifluorotoluene	81.1		73-130	%REC	1250	6/22/2010 04:01 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	23.7		4.98	mg/Kg	1	7/2/2010 12:32 AM
Surr: Selenate (surr)	87.1		85-115	%REC	1	7/2/2010 12:32 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 60'

Lab ID: 1006499-54

Collection Date: 6/11/2010 07:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	430		17	mg/Kg	10	6/29/2010 06:27 PM
TPH (Motor Oil Range)	200		34	mg/Kg	10	6/29/2010 06:27 PM
Surr: 2-Fluorobiphenyl	143	S	70-130	%REC	10	6/29/2010 06:27 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	0.62		0.050	mg/Kg	1	6/23/2010 05:02 AM
Surr: 4-Bromofluorobenzene	87.9		70-130	%REC	1	6/23/2010 05:02 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 09:32 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 09:32 PM
Ethylbenzene	0.0025		0.0010	mg/Kg	1	6/19/2010 09:32 PM
Xylenes, Total	0.0062		0.0030	mg/Kg	1	6/19/2010 09:32 PM
Surr: 4-Bromofluorobenzene	116		75-131	%REC	1	6/19/2010 09:32 PM
Surr: Trifluorotoluene	98.2		73-130	%REC	1	6/19/2010 09:32 PM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	15.2		4.99	mg/Kg	1	7/2/2010 12:46 AM
Surr: Selenate (surr)	92.7		85-115	%REC	1	7/2/2010 12:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-5 70'
Collection Date: 6/11/2010 07:40 AM

Work Order: 1006499
Lab ID: 1006499-55
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	5.0		1.7	mg/Kg	1	6/29/2010 06:27 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/29/2010 06:27 PM
Surr: 2-Fluorobiphenyl	82.3		70-130	%REC	1	6/29/2010 06:27 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 05:25 AM
Surr: 4-Bromofluorobenzene	84.4		70-130	%REC	1	6/23/2010 05:25 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 09:52 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 09:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 09:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 09:52 PM
Surr: 4-Bromofluorobenzene	98.0		75-131	%REC	1	6/19/2010 09:52 PM
Surr: Trifluorotoluene	105		73-130	%REC	1	6/19/2010 09:52 PM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	17.2		5.00	mg/Kg	1	7/2/2010 01:01 AM
Surr: Selenate (surr)	97.6		85-115	%REC	1	7/2/2010 01:01 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 80'

Collection Date: 6/11/2010 07:50 AM

Work Order: 1006499

Lab ID: 1006499-56

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	69		3.4	mg/Kg	2	6/29/2010 07:25 PM
TPH (Motor Oil Range)	35		6.8	mg/Kg	2	6/29/2010 07:25 PM
Surr: 2-Fluorobiphenyl	76.4		70-130	%REC	2	6/29/2010 07:25 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 01:09 AM
Surr: 4-Bromofluorobenzene	78.5		70-130	%REC	1	6/23/2010 01:09 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 05:39 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 05:39 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 05:39 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 05:39 PM
Surr: 4-Bromofluorobenzene	100		75-131	%REC	1	6/20/2010 05:39 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/20/2010 05:39 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	17.5		4.96	mg/Kg	1	7/2/2010 01:44 AM
Surr: Selenate (surr)	92.7		85-115	%REC	1	7/2/2010 01:44 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 90'

Collection Date: 6/11/2010 08:00 AM

Work Order: 1006499

Lab ID: 1006499-57

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	210		8.5	mg/Kg	5	6/29/2010 07:48 PM
TPH (Motor Oil Range)	110		17	mg/Kg	5	6/29/2010 07:48 PM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	5	6/29/2010 07:48 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	20		0.25	mg/Kg	5	6/22/2010 08:40 PM
Surr: 4-Bromofluorobenzene	222	S	70-130	%REC	5	6/22/2010 08:40 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0050	mg/Kg	5	6/20/2010 07:19 PM
Toluene	ND		0.0050	mg/Kg	5	6/20/2010 07:19 PM
Ethylbenzene	0.10		0.0050	mg/Kg	5	6/20/2010 07:19 PM
Xylenes, Total	0.22		0.015	mg/Kg	5	6/20/2010 07:19 PM
Surr: 4-Bromofluorobenzene	112		75-131	%REC	5	6/20/2010 07:19 PM
Surr: Trifluorotoluene	101		73-130	%REC	5	6/20/2010 07:19 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	26.4		4.96	mg/Kg	1	7/2/2010 01:59 AM
Surr: Selenate (surr)	95.9		85-115	%REC	1	7/2/2010 01:59 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 100'

Lab ID: 1006499-58

Collection Date: 6/11/2010 08:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	93		3.4	mg/Kg	2	6/29/2010 10:42 PM
TPH (Motor Oil Range)	52		6.8	mg/Kg	2	6/29/2010 10:42 PM
Surr: 2-Fluorobiphenyl	126		70-130	%REC	2	6/29/2010 10:42 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 05:49 AM
Surr: 4-Bromofluorobenzene	84.2		70-130	%REC	1	6/23/2010 05:49 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/19/2010 10:12 PM
Toluene	ND		0.0010	mg/Kg	1	6/19/2010 10:12 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/19/2010 10:12 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/19/2010 10:12 PM
Surr: 4-Bromofluorobenzene	96.4		75-131	%REC	1	6/19/2010 10:12 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/19/2010 10:12 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	14.1		5.00	mg/Kg	1	7/2/2010 02:14 AM
Surr: Selenate (surr)	93.6		85-115	%REC	1	7/2/2010 02:14 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 110'

Lab ID: 1006499-59

Collection Date: 6/11/2010 08:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/29/2010 05:09 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/29/2010 05:09 PM
Surr: 2-Fluorobiphenyl	88.3		70-130	%REC	1	6/29/2010 05:09 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 06:35 AM
Surr: 4-Bromofluorobenzene	80.0		70-130	%REC	1	6/23/2010 06:35 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 01:00 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 01:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 01:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 01:00 PM
Surr: 4-Bromofluorobenzene	91.9		75-131	%REC	1	6/20/2010 01:00 PM
Surr: Trifluorotoluene	98.3		73-130	%REC	1	6/20/2010 01:00 PM
ANIONS						
			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	ND		4.96	mg/Kg	1	7/2/2010 02:28 AM
Surr: Selenate (surr)	94.4		85-115	%REC	1	7/2/2010 02:28 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 10'

Collection Date: 6/11/2010 12:00 PM

Work Order: 1006499

Lab ID: 1006499-60

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/29/2010 05:28 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/29/2010 05:28 PM
Surr: 2-Fluorobiphenyl	82.3		70-130	%REC	1	6/29/2010 05:28 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 06:58 AM
Surr: 4-Bromofluorobenzene	84.9		70-130	%REC	1	6/23/2010 06:58 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 01:20 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 01:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 01:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 01:20 PM
Surr: 4-Bromofluorobenzene	90.1		75-131	%REC	1	6/20/2010 01:20 PM
Surr: Trifluorotoluene	97.8		73-130	%REC	1	6/20/2010 01:20 PM
ANIONS			E300		Prep Date: 6/30/2010	Analyst: JBA
Chloride	12.5		4.98	mg/Kg	1	7/2/2010 02:43 AM
Surr: Selenate (surr)	97.0		85-115	%REC	1	7/2/2010 02:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 20'

Collection Date: 6/11/2010 12:10 PM

Work Order: 1006499

Lab ID: 1006499-61

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 06:31 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 06:31 PM
Surr: 2-Fluorobiphenyl	89.3		70-130	%REC	1	6/17/2010 06:31 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 07:21 AM
Surr: 4-Bromofluorobenzene	84.3		70-130	%REC	1	6/23/2010 07:21 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 01:40 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 01:40 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 01:40 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 01:40 PM
Surr: 4-Bromofluorobenzene	94.1		75-131	%REC	1	6/20/2010 01:40 PM
Surr: Trifluorotoluene	98.4		73-130	%REC	1	6/20/2010 01:40 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	20.3		4.96	mg/Kg	1	7/2/2010 07:27 AM
Surr: Selenate (surr)	84.8	S	85-115	%REC	1	7/2/2010 07:27 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 30'

Collection Date: 6/11/2010 01:25 PM

Work Order: 1006499

Lab ID: 1006499-62

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 07:30 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	6/17/2010 07:30 PM
Surr: 2-Fluorobiphenyl	104		70-130	%REC	1	6/17/2010 07:30 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 11:24 AM
Surr: 4-Bromofluorobenzene	84.6		70-130	%REC	1	6/23/2010 11:24 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0050	mg/Kg	5	6/20/2010 06:39 PM
Toluene	ND		0.0050	mg/Kg	5	6/20/2010 06:39 PM
Ethylbenzene	ND		0.0050	mg/Kg	5	6/20/2010 06:39 PM
Xylenes, Total	ND		0.015	mg/Kg	5	6/20/2010 06:39 PM
Surr: 4-Bromofluorobenzene	94.3		75-131	%REC	5	6/20/2010 06:39 PM
Surr: Trifluorotoluene	101		73-130	%REC	5	6/20/2010 06:39 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	14.0		4.95	mg/Kg	1	7/2/2010 08:25 AM
Surr: Selenate (surr)	93.4		85-115	%REC	1	7/2/2010 08:25 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 40'

Collection Date: 6/11/2010 01:35 PM

Work Order: 1006499

Lab ID: 1006499-63

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	5.6		1.7	mg/Kg	1	6/17/2010 08:28 PM
TPH (Motor Oil Range)	15		3.4	mg/Kg	1	6/17/2010 08:28 PM
Surr: 2-Fluorobiphenyl	81.6		70-130	%REC	1	6/17/2010 08:28 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 07:44 AM
Surr: 4-Bromofluorobenzene	83.6		70-130	%REC	1	6/23/2010 07:44 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 02:00 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 02:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 02:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 02:00 PM
Surr: 4-Bromofluorobenzene	93.5		75-131	%REC	1	6/20/2010 02:00 PM
Surr: Trifluorotoluene	97.6		73-130	%REC	1	6/20/2010 02:00 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	21.8		5.00	mg/Kg	1	7/2/2010 08:40 AM
Surr: Selenate (surr)	98.2		85-115	%REC	1	7/2/2010 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 50'

Collection Date: 6/11/2010 01:40 PM

Work Order: 1006499

Lab ID: 1006499-64

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	3.3		1.7	mg/Kg	1	6/17/2010 08:47 PM
TPH (Motor Oil Range)	10		3.4	mg/Kg	1	6/17/2010 08:47 PM
Surr: 2-Fluorobiphenyl	98.7		70-130	%REC	1	6/17/2010 08:47 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 08:08 AM
Surr: 4-Bromofluorobenzene	87.0		70-130	%REC	1	6/23/2010 08:08 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 02:20 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 02:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 02:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 02:20 PM
Surr: 4-Bromofluorobenzene	93.4		75-131	%REC	1	6/20/2010 02:20 PM
Surr: Trifluorotoluene	97.9		73-130	%REC	1	6/20/2010 02:20 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	21.1		4.95	mg/Kg	1	7/2/2010 08:54 AM
Surr: Selenate (surr)	89.1		85-115	%REC	1	7/2/2010 08:54 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-7 60'
Collection Date: 6/11/2010 01:50 PM

Work Order: 1006499
Lab ID: 1006499-65
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	4.2		1.7	mg/Kg	1	6/17/2010 09:07 PM
TPH (Motor Oil Range)	11		3.4	mg/Kg	1	6/17/2010 09:07 PM
Surr: 2-Fluorobiphenyl	86.1		70-130	%REC	1	6/17/2010 09:07 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 08:31 AM
Surr: 4-Bromofluorobenzene	79.6		70-130	%REC	1	6/23/2010 08:31 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 02:40 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 02:40 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 02:40 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 02:40 PM
Surr: 4-Bromofluorobenzene	93.3		75-131	%REC	1	6/20/2010 02:40 PM
Surr: Trifluorotoluene	98.9		73-130	%REC	1	6/20/2010 02:40 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	22.2		4.98	mg/Kg	1	7/2/2010 09:38 AM
Surr: Selenate (surr)	90.6		85-115	%REC	1	7/2/2010 09:38 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 70'

Collection Date: 6/11/2010 02:00 PM

Work Order: 1006499

Lab ID: 1006499-66

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	ND		1.7	mg/Kg	1	6/17/2010 09:26 PM
TPH (Motor Oil Range)	3.8		3.4	mg/Kg	1	6/17/2010 09:26 PM
Surr: 2-Fluorobiphenyl	91.1		70-130	%REC	1	6/17/2010 09:26 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 08:54 AM
Surr: 4-Bromofluorobenzene	84.6		70-130	%REC	1	6/23/2010 08:54 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 04:19 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 04:19 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 04:19 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 04:19 PM
Surr: 4-Bromofluorobenzene	94.8		75-131	%REC	1	6/20/2010 04:19 PM
Surr: Trifluorotoluene	101		73-130	%REC	1	6/20/2010 04:19 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	25.2		4.96	mg/Kg	1	7/2/2010 09:53 AM
Surr: Selenate (surr)	89.5		85-115	%REC	1	7/2/2010 09:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
Sample ID: WSB-7 80'
Collection Date: 6/11/2010 02:10 PM

Work Order: 1006499
Lab ID: 1006499-67
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	7.3		1.7	mg/Kg	1	6/17/2010 09:45 PM
TPH (Motor Oil Range)	12		3.4	mg/Kg	1	6/17/2010 09:45 PM
Surr: 2-Fluorobiphenyl	85.9		70-130	%REC	1	6/17/2010 09:45 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 09:18 AM
Surr: 4-Bromofluorobenzene	77.3		70-130	%REC	1	6/23/2010 09:18 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 04:39 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 04:39 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 04:39 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 04:39 PM
Surr: 4-Bromofluorobenzene	94.8		75-131	%REC	1	6/20/2010 04:39 PM
Surr: Trifluorotoluene	99.5		73-130	%REC	1	6/20/2010 04:39 PM
ANIONS						
			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	27.3		4.99	mg/Kg	1	7/2/2010 10:07 AM
Surr: Selenate (surr)	96.4		85-115	%REC	1	7/2/2010 10:07 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 90'

Collection Date: 6/11/2010 02:30 PM

Work Order: 1006499

Lab ID: 1006499-68

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	64		3.4	mg/Kg	2	6/29/2010 11:32 AM
TPH (Motor Oil Range)	76		6.8	mg/Kg	2	6/29/2010 11:32 AM
Surr: 2-Fluorobiphenyl	83.7		70-130	%REC	2	6/29/2010 11:32 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 09:41 AM
Surr: 4-Bromofluorobenzene	79.8		70-130	%REC	1	6/23/2010 09:41 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 05:59 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 05:59 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 05:59 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 05:59 PM
Surr: 4-Bromofluorobenzene	95.5		75-131	%REC	1	6/20/2010 05:59 PM
Surr: Trifluorotoluene	99.6		73-130	%REC	1	6/20/2010 05:59 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	30.9		5.00	mg/Kg	1	7/2/2010 10:22 AM
Surr: Selenate (surr)	88.4		85-115	%REC	1	7/2/2010 10:22 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 100'

Lab ID: 1006499-69

Collection Date: 6/11/2010 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	3.8		1.7	mg/Kg	1	6/17/2010 10:24 PM
TPH (Motor Oil Range)	7.3		3.4	mg/Kg	1	6/17/2010 10:24 PM
Surr: 2-Fluorobiphenyl	105		70-130	%REC	1	6/17/2010 10:24 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/23/2010 10:05 AM
Surr: 4-Bromofluorobenzene	86.7		70-130	%REC	1	6/23/2010 10:05 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 04:59 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 04:59 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 04:59 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 04:59 PM
Surr: 4-Bromofluorobenzene	99.7		75-131	%REC	1	6/20/2010 04:59 PM
Surr: Trifluorotoluene	102		73-130	%REC	1	6/20/2010 04:59 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	28.1		4.96	mg/Kg	1	7/2/2010 10:36 AM
Surr: Selenate (surr)	89.2		85-115	%REC	1	7/2/2010 10:36 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 110'

Lab ID: 1006499-70

Collection Date: 6/11/2010 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 6/16/2010	Analyst: KMB
TPH (Diesel Range)	6.4		1.7	mg/Kg	1	6/17/2010 10:44 PM
TPH (Motor Oil Range)	8.9		3.4	mg/Kg	1	6/17/2010 10:44 PM
Surr: 2-Fluorobiphenyl	88.8		70-130	%REC	1	6/17/2010 10:44 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	6/22/2010 09:03 PM
Surr: 4-Bromofluorobenzene	73.3		70-130	%REC	1	6/22/2010 09:03 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	6/20/2010 05:19 PM
Toluene	ND		0.0010	mg/Kg	1	6/20/2010 05:19 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	6/20/2010 05:19 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	6/20/2010 05:19 PM
Surr: 4-Bromofluorobenzene	94.6		75-131	%REC	1	6/20/2010 05:19 PM
Surr: Trifluorotoluene	99.8		73-130	%REC	1	6/20/2010 05:19 PM
ANIONS			E300		Prep Date: 7/1/2010	Analyst: JBA
Chloride	17.5		4.95	mg/Kg	1	7/2/2010 10:51 AM
Surr: Selenate (surr)	89.1		85-115	%REC	1	7/2/2010 10:51 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: Trip Blank 052410-13

Lab ID: 1006499-71

Collection Date: 6/11/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/22/2010 05:12 AM
Toluene	ND		0.0010	mg/L	1	6/22/2010 05:12 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/22/2010 05:12 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	6/22/2010 05:12 AM
Xylenes, Total	ND		0.0030	mg/L	1	6/22/2010 05:12 AM
Surr: 4-Bromofluorobenzene	84.4		77-129	%REC	1	6/22/2010 05:12 AM
Surr: Trifluorotoluene	97.1		75-130	%REC	1	6/22/2010 05:12 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: Trip Blank 052810-59

Lab ID: 1006499-72

Collection Date: 6/11/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/22/2010 05:32 AM
Toluene	ND		0.0010	mg/L	1	6/22/2010 05:32 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/22/2010 05:32 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	6/22/2010 05:32 AM
Xylenes, Total	ND		0.0030	mg/L	1	6/22/2010 05:32 AM
Surr: 4-Bromofluorobenzene	84.0		77-129	%REC	1	6/22/2010 05:32 AM
Surr: Trifluorotoluene	96.3		75-130	%REC	1	6/22/2010 05:32 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: Trip Blank 040810-36

Lab ID: 1006499-73

Collection Date: 6/11/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	6/22/2010 05:52 AM
Toluene	ND		0.0010	mg/L	1	6/22/2010 05:52 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/22/2010 05:52 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	6/22/2010 05:52 AM
Xylenes, Total	ND		0.0030	mg/L	1	6/22/2010 05:52 AM
Surr: 4-Bromofluorobenzene	84.1		77-129	%REC	1	6/22/2010 05:52 AM
Surr: Trifluorotoluene	95.8		75-130	%REC	1	6/22/2010 05:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 43776 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100616-43776 Units: mg/Kg Analysis Date: 6/17/2010 11:03 AM

Client ID: Run ID: FID-7_100616B SeqNo: 2011219 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	4.17	0.10	3.33	0	125	70-130	0			

LCS Sample ID: FLCSS1-100616-43776 Units: mg/Kg Analysis Date: 6/17/2010 11:23 AM

Client ID: Run ID: FID-7_100616B SeqNo: 2011220 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.4	1.7	33.33	0	82.2	70-130	0			
TPH (Motor Oil Range)	29.75	3.4	33.33	0	89.3	70-130	0			
Surr: 2-Fluorobiphenyl	4.188	0.10	3.33	0	126	70-130	0			

MS Sample ID: 1006499-01BMS Units: mg/Kg Analysis Date: 6/17/2010 12:02 PM

Client ID: WSB-1 10' Run ID: FID-7_100616B SeqNo: 2011222 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.4	1.7	33.24	0.1141	97.1	70-130	0			
TPH (Motor Oil Range)	40.45	3.4	33.24	0.5472	120	70-130	0			
Surr: 2-Fluorobiphenyl	4.221	0.10	3.321	0	127	70-130	0			

MSD Sample ID: 1006499-01BMSD Units: mg/Kg Analysis Date: 6/17/2010 12:40 PM

Client ID: WSB-1 10' Run ID: FID-7_100616B SeqNo: 2011223 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.93	1.7	33.27	0.1141	105	70-130	32.4	7.49	30	
TPH (Motor Oil Range)	42.68	3.4	33.27	0.5472	127	70-130	40.45	5.38	30	
Surr: 2-Fluorobiphenyl	4.112	0.10	3.324	0	124	70-130	4.221	2.62	30	

The following samples were analyzed in this batch:

1006499-01B	1006499-02B	1006499-03B
1006499-04B	1006499-05B	1006499-06B
1006499-07B	1006499-08B	1006499-09B
1006499-10B	1006499-11B	1006499-12B
1006499-13B	1006499-14B	1006499-15B
1006499-16B	1006499-17B	1006499-18B
1006499-19B	1006499-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 43777 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS2-100616-43777 Units: mg/Kg Analysis Date: 6/17/2010 03:35 PM

Client ID: Run ID: FID-8_100616A SeqNo: 2011116 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.74	0.10	3.33	0	112	70-130	0			

LCS Sample ID: FLCSS2-100616-43777 Units: mg/Kg Analysis Date: 6/29/2010 12:11 PM

Client ID: Run ID: FID-8_100616A SeqNo: 2011408 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	28.64	1.7	33.33	0	85.9	70-130	0			
TPH (Motor Oil Range)	28.25	3.4	33.33	0	84.8	70-130	0			
Surr: 2-Fluorobiphenyl	3.27	0.10	3.33	0	98.2	70-130	0			

MS Sample ID: 1006499-21BMS Units: mg/Kg Analysis Date: 6/17/2010 04:35 PM

Client ID: WSB-3 60' Run ID: FID-8_100616A SeqNo: 2011119 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	30.22	1.7	33.32	0.08056	90.4	70-130	0			
TPH (Motor Oil Range)	31.33	3.4	33.32	0.7924	91.7	70-130	0			
Surr: 2-Fluorobiphenyl	3.958	0.10	3.329	0	119	70-130	0			

MSD Sample ID: 1006499-21BMSD Units: mg/Kg Analysis Date: 6/17/2010 04:54 PM

Client ID: WSB-3 60' Run ID: FID-8_100616A SeqNo: 2011121 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.36	1.7	33.27	0.08056	106	70-130	30.22	15.7	30	
TPH (Motor Oil Range)	34.69	3.4	33.27	0.7924	102	70-130	31.33	10.2	30	
Surr: 2-Fluorobiphenyl	4.182	0.10	3.324	0	126	70-130	3.958	5.49	30	

The following samples were analyzed in this batch:

1006499-21B	1006499-22B	1006499-23B
1006499-24B	1006499-25B	1006499-26B
1006499-27B	1006499-28B	1006499-29B
1006499-30B	1006499-31B	1006499-32B
1006499-33B	1006499-34B	1006499-35B
1006499-36B	1006499-37B	1006499-38B
1006499-39B	1006499-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 43783 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS3-100616-43783 Units: mg/Kg Analysis Date: 6/19/2010 01:12 PM
Client ID: Run ID: FID-8_100616B SeqNo: 2011882 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.639	0.10	3.33	0	109	70-130	0			

LCS Sample ID: FLCSS3-100616-43783 Units: mg/Kg Analysis Date: 6/19/2010 01:32 PM
Client ID: Run ID: FID-8_100616B SeqNo: 2011883 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.02	1.7	33.33	0	114	70-130	0			
TPH (Motor Oil Range)	38.58	3.4	33.33	0	116	70-130	0			
Surr: 2-Fluorobiphenyl	3.964	0.10	3.33	0	119	70-130	0			

MS Sample ID: 1006499-41BMS Units: mg/Kg Analysis Date: 6/19/2010 02:49 PM
Client ID: WSB-6 110' Run ID: FID-8_100616B SeqNo: 2011885 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.14	1.7	33.32	0.1201	102	70-130	0			
TPH (Motor Oil Range)	38.13	3.4	33.32	0.6329	113	70-130	0			
Surr: 2-Fluorobiphenyl	3.834	0.10	3.329	0	115	70-130	0			

MSD Sample ID: 1006499-41BMSD Units: mg/Kg Analysis Date: 6/19/2010 03:08 PM
Client ID: WSB-6 110' Run ID: FID-8_100616B SeqNo: 2011886 Prep Date: 6/16/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	33.11	1.7	33.24	0.1201	99.2	70-130	34.14	3.05	30	
TPH (Motor Oil Range)	38.46	3.4	33.24	0.6329	114	70-130	38.13	0.865	30	
Surr: 2-Fluorobiphenyl	3.962	0.10	3.321	0	119	70-130	3.834	3.29	30	

The following samples were analyzed in this batch:

1006499-41B	1006499-42B	1006499-43B
1006499-44B	1006499-45B	1006499-46B
1006499-47B	1006499-48B	1006499-49B
1006499-50B	1006499-51B	1006499-52B
1006499-53B	1006499-54B	1006499-55B
1006499-56B	1006499-57B	1006499-58B
1006499-59B	1006499-60B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **43784** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS4-100616-43784** Units: **mg/Kg** Analysis Date: **6/17/2010 05:53 PM**

Client ID: Run ID: **FID-7_100616A** SeqNo: **2011012** Prep Date: **6/16/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	3.443	0.10	3.33	0	103	70-130	0			

LCS Sample ID: **FLCSS4-100616-43784** Units: **mg/Kg** Analysis Date: **6/17/2010 06:12 PM**

Client ID: Run ID: **FID-7_100616A** SeqNo: **2011013** Prep Date: **6/16/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.73	1.7	33.33	0	98.2	70-130	0			
TPH (Motor Oil Range)	34.95	3.4	33.33	0	105	70-130	0			
Surr: 2-Fluorobiphenyl	4.119	0.10	3.33	0	124	70-130	0			

MS Sample ID: **1006499-61BMS** Units: **mg/Kg** Analysis Date: **6/17/2010 06:51 PM**

Client ID: **WSB-7 20'** Run ID: **FID-7_100616A** SeqNo: **2011015** Prep Date: **6/16/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.43	1.7	33.27	1.462	102	70-130	0			
TPH (Motor Oil Range)	42.43	3.4	33.27	1.479	123	70-130	0			
Surr: 2-Fluorobiphenyl	3.917	0.10	3.324	0	118	70-130	0			

MSD Sample ID: **1006499-61BMSD** Units: **mg/Kg** Analysis Date: **6/17/2010 07:10 PM**

Client ID: **WSB-7 20'** Run ID: **FID-7_100616A** SeqNo: **2011016** Prep Date: **6/16/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.14	1.7	33.3	1.462	101	70-130	35.43	0.833	30	
TPH (Motor Oil Range)	43.92	3.4	33.3	1.479	127	70-130	42.43	3.43	30	
Surr: 2-Fluorobiphenyl	4.171	0.10	3.327	0	125	70-130	3.917	6.28	30	

The following samples were analyzed in this batch:

1006499-61B	1006499-62B	1006499-63B
1006499-64B	1006499-65B	1006499-66B
1006499-67B	1006499-68B	1006499-69B
1006499-70B		

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92860 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061810-R92860 Units: µg/Kg Analysis Date: 6/18/2010 08:17 PM

Client ID: Run ID: BTEX3_100618A SeqNo: 2001397 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.16	1.0	30	0	93.9	75-131	0			
Surr: Trifluorotoluene	30.52	1.0	30	0	102	73-130	0			

LCS Sample ID: BLCSS1-061810-R92860 Units: µg/Kg Analysis Date: 6/18/2010 07:47 PM

Client ID: Run ID: BTEX3_100618A SeqNo: 2001396 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.09	1.0	20	0	115	74-129	0			
Toluene	23.7	1.0	20	0	118	75-128	0			
Ethylbenzene	22.26	1.0	20	0	111	73-127	0			
Xylenes, Total	68.04	3.0	60	0	113	74-127	0			
Surr: 4-Bromofluorobenzene	28.77	1.0	30	0	95.9	75-131	0			
Surr: Trifluorotoluene	31.03	1.0	30	0	103	73-130	0			

MS Sample ID: 1006499-06AMS Units: µg/Kg Analysis Date: 6/18/2010 10:38 PM

Client ID: WSB-1 60' Run ID: BTEX3_100618A SeqNo: 2001404 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.06	1.0	20	0	110	74-129	0			
Toluene	22.65	1.0	20	0	113	75-128	0			
Ethylbenzene	20.99	1.0	20	0	105	73-127	0			
Xylenes, Total	64.73	3.0	60	0	108	74-127	0			
Surr: 4-Bromofluorobenzene	29.82	1.0	30	0	99.4	75-131	0			
Surr: Trifluorotoluene	32.15	1.0	30	0	107	73-130	0			

MSD Sample ID: 1006499-06AMSD Units: µg/Kg Analysis Date: 6/18/2010 10:58 PM

Client ID: WSB-1 60' Run ID: BTEX3_100618A SeqNo: 2001405 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.36	1.0	20	0	112	74-129	22.06	1.34	30	
Toluene	22.94	1.0	20	0	115	75-128	22.65	1.28	30	
Ethylbenzene	21.28	1.0	20	0	106	73-127	20.99	1.36	30	
Xylenes, Total	65.44	3.0	60	0	109	74-127	64.73	1.1	30	
Surr: 4-Bromofluorobenzene	30.4	1.0	30	0	101	75-131	29.82	1.92	30	
Surr: Trifluorotoluene	33.15	1.0	30	0	110	73-130	32.15	3.04	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **R92860**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006499-01A	1006499-02A	1006499-03A
1006499-04A	1006499-05A	1006499-06A
1006499-07A	1006499-08A	1006499-09A
1006499-10A	1006499-11A	1006499-12A
1006499-13A	1006499-14A	1006499-15A
1006499-16A	1006499-17A	1006499-18A
1006499-19A	1006499-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92861 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061910-R92861 Units: µg/Kg Analysis Date: 6/19/2010 06:16 AM

Client ID: Run ID: BTEX3_100618B SeqNo: 2001426 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.5	1.0	30	0	95	75-131	0			
Surr: Trifluorotoluene	30.23	1.0	30	0	101	73-130	0			

LCS Sample ID: BLCSS1-061910-R92861 Units: µg/Kg Analysis Date: 6/19/2010 05:36 AM

Client ID: Run ID: BTEX3_100618B SeqNo: 2001425 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.55	1.0	20	0	113	74-129	0			
Toluene	22.37	1.0	20	0	112	75-128	0			
Ethylbenzene	21.22	1.0	20	0	106	73-127	0			
Xylenes, Total	65.12	3.0	60	0	109	74-127	0			
Surr: 4-Bromofluorobenzene	29.95	1.0	30	0	99.8	75-131	0			
Surr: Trifluorotoluene	33.14	1.0	30	0	110	73-130	0			

MS Sample ID: 1006499-26AMS Units: µg/Kg Analysis Date: 6/19/2010 08:36 AM

Client ID: WSB-3 110' Run ID: BTEX3_100618B SeqNo: 2001433 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.62	1.0	20	0	113	74-129	0			
Toluene	22.88	1.0	20	0	114	75-128	0			
Ethylbenzene	21.05	1.0	20	0	105	73-127	0			
Xylenes, Total	65.27	3.0	60	0	109	74-127	0			
Surr: 4-Bromofluorobenzene	30.87	1.0	30	0	103	75-131	0			
Surr: Trifluorotoluene	33.14	1.0	30	0	110	73-130	0			

MSD Sample ID: 1006499-26AMSD Units: µg/Kg Analysis Date: 6/19/2010 08:55 AM

Client ID: WSB-3 110' Run ID: BTEX3_100618B SeqNo: 2001434 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.19	1.0	20	0	111	74-129	22.62	1.96	30	
Toluene	22.42	1.0	20	0	112	75-128	22.88	2	30	
Ethylbenzene	20.8	1.0	20	0	104	73-127	21.05	1.17	30	
Xylenes, Total	64.05	3.0	60	0	107	74-127	65.27	1.89	30	
Surr: 4-Bromofluorobenzene	31.41	1.0	30	0	105	75-131	30.87	1.73	30	
Surr: Trifluorotoluene	32.61	1.0	30	0	109	73-130	33.14	1.61	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **R92861**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1006499-21A	1006499-22A	1006499-23A
1006499-24A	1006499-25A	1006499-26A
1006499-27A	1006499-29A	1006499-31A
1006499-32A	1006499-33A	1006499-34A
1006499-35A	1006499-36A	1006499-37A
1006499-38A	1006499-39A	1006499-40A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92862 Instrument ID BTEX3 Method: SW8021B

MBLK	Sample ID: BBLKS1-061910-R92862				Units: µg/Kg		Analysis Date: 6/19/2010 07:14 PM			
Client ID:	Run ID: BTEX3_100619A				SeqNo: 2001456		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.15	1.0	30	0	93.8	75-131	0			
Surr: Trifluorotoluene	30.71	1.0	30	0	102	73-130	0			

LCS	Sample ID: BLCSS1-061910-R92862					Units: µg/Kg		Analysis Date: 6/19/2010 06:54 PM		
Client ID:	Run ID: BTEX3_100619A				SeqNo: 2001455		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.88	1.0	20	0	114	74-129	0			
Toluene	23.45	1.0	20	0	117	75-128	0			
Ethylbenzene	22.47	1.0	20	0	112	73-127	0			
Xylenes, Total	69.41	3.0	60	0	116	74-127	0			
Surr: 4-Bromofluorobenzene	31.09	1.0	30	0	104	75-131	0			
Surr: Trifluorotoluene	32.08	1.0	30	0	107	73-130	0			

MS	Sample ID: 1006499-41AMS				Units: µg/Kg		Analysis Date: 6/19/2010 07:54 PM				
Client ID: WSB-6 110'			Run ID: BTEX3_100619A			SeqNo: 2001466		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	20.25	1.0	20	0	101	74-129	0				
Toluene	19.95	1.0	20	0	99.8	75-128	0				
Ethylbenzene	19.59	1.0	20	0	97.9	73-127	0				
Xylenes, Total	59.86	3.0	60	0	99.8	74-127	0				
Surr: 4-Bromofluorobenzene	29.67	1.0	30	0	98.9	75-131	0				
Surr: Trifluorotoluene	30.43	1.0	30	0	101	73-130	0				

MSD	Sample ID: 1006499-41AMSD				Units: µg/Kg		Analysis Date: 6/19/2010 08:14 PM			
Client ID: WSB-6 110'		Run ID: BTEX3_100619A			SeqNo: 2001467		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.85	1.0	20	0	104	74-129	20.25	2.94	30	
Toluene	20.43	1.0	20	0	102	75-128	19.95	2.36	30	
Ethylbenzene	19.96	1.0	20	0	99.8	73-127	19.59	1.87	30	
Xylenes, Total	60.92	3.0	60	0	102	74-127	59.86	1.77	30	
Surr: 4-Bromofluorobenzene	29.61	1.0	30	0	98.7	75-131	29.67	0.188	30	
Surr: Trifluorotoluene	31.15	1.0	30	0	104	73-130	30.43	2.32	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92862 Instrument ID BTEX3 Method: SW8021B

The following samples were analyzed in this batch:	1006499-41A	1006499-49A	1006499-50A
	1006499-54A	1006499-55A	1006499-58A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92863 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-062010-R92863 Units: µg/Kg Analysis Date: 6/20/2010 12:40 PM
Client ID: Run ID: BTEX3_100620A SeqNo: 2001472 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	0.3478	1.0								J
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	26.22	1.0	30	0	87.4	75-131	0			
Surr: Trifluorotoluene	29.31	1.0	30	0	97.7	73-130	0			

LCS Sample ID: BLCSS1-062010-R92863 Units: µg/Kg Analysis Date: 6/20/2010 12:11 PM
Client ID: Run ID: BTEX3_100620A SeqNo: 2001471 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.14	1.0	20	0	106	74-129	0			
Toluene	20.64	1.0	20	0	103	75-128	0			
Ethylbenzene	19.31	1.0	20	0	96.6	73-127	0			
Xylenes, Total	59.94	3.0	60	0	99.9	74-127	0			
Surr: 4-Bromofluorobenzene	29.02	1.0	30	0	96.7	75-131	0			
Surr: Trifluorotoluene	29.45	1.0	30	0	98.2	73-130	0			

MS Sample ID: 1006499-65AMS Units: µg/Kg Analysis Date: 6/20/2010 03:00 PM
Client ID: WSB-7 60' Run ID: BTEX3_100620A SeqNo: 2001479 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.07	1.0	20	0	100	74-129	0			
Toluene	19.65	1.0	20	0	98.3	75-128	0			
Ethylbenzene	19.11	1.0	20	0	95.5	73-127	0			
Xylenes, Total	58.5	3.0	60	0	97.5	74-127	0			
Surr: 4-Bromofluorobenzene	29.41	1.0	30	0	98	75-131	0			
Surr: Trifluorotoluene	30.35	1.0	30	0	101	73-130	0			

MSD Sample ID: 1006499-65AMSD Units: µg/Kg Analysis Date: 6/20/2010 03:20 PM
Client ID: WSB-7 60' Run ID: BTEX3_100620A SeqNo: 2001480 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.54	1.0	20	0	103	74-129	20.07	2.31	30	
Toluene	19.98	1.0	20	0	99.9	75-128	19.65	1.67	30	
Ethylbenzene	19.35	1.0	20	0	96.8	73-127	19.11	1.29	30	
Xylenes, Total	59.45	3.0	60	0	99.1	74-127	58.5	1.62	30	
Surr: 4-Bromofluorobenzene	30.86	1.0	30	0	103	75-131	29.41	4.82	30	
Surr: Trifluorotoluene	31.55	1.0	30	0	105	73-130	30.35	3.89	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **R92863** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1006499-56A	1006499-57A	1006499-59A
1006499-60A	1006499-61A	1006499-62A
1006499-63A	1006499-64A	1006499-65A
1006499-66A	1006499-67A	1006499-68A
1006499-69A	1006499-70A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92887 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: BBLKW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 08:29 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002121 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.87	1.0	30	0	82.9	77-129	0			
Surr: Trifluorotoluene	25.67	1.0	30	0	85.6	75-130	0			

MBLK Sample ID: MEOHW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 11:50 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002132 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.61	1.0	30	0	82	77-129	0			
Surr: Trifluorotoluene	25.57	1.0	30	0	85.2	75-130	0			

LCS Sample ID: BLCSW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 08:12 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002120 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.44	1.0	20	0	97.2	77-126	0			
Toluene	18.53	1.0	20	0	92.7	80-124	0			
Ethylbenzene	18.91	1.0	20	0	94.6	76-125	0			
Xylenes, Total	55.23	3.0	60	0	92.1	79-124	0			
Surr: 4-Bromofluorobenzene	25.79	1.0	30	0	86	77-129	0			
Surr: Trifluorotoluene	25.95	1.0	30	0	86.5	75-130	0			

LCSD Sample ID: BLCSDW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 11:32 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002131 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.73	1.0	20	0	98.6	77-126	21.89	0	20	
Toluene	19.21	1.0	20	0	96	80-124	20.41	0	20	
Ethylbenzene	19.55	1.0	20	0	97.8	76-125	20.8	0	20	
Xylenes, Total	57.3	3.0	60	0	95.5	79-124	60.26	0	20	
Surr: 4-Bromofluorobenzene	25.54	1.0	30	0	85.1	77-129	26.03	0	20	
Surr: Trifluorotoluene	25.49	1.0	30	0	85	75-130	25.67	0	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92887 Instrument ID BTEX1 Method: SW8021B

MS Sample ID: 1006485-05AMS Units: µg/L Analysis Date: 6/21/2010 10:39 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002128 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.52	1.0	20	0.5836	89.7	77-126	0			
Toluene	14.84	1.0	20	0	74.2	80-124	0			S
Ethylbenzene	13.88	1.0	20	0	69.4	76-125	0			S
Xylenes, Total	40.78	3.0	60	0	68	79-124	0			S
Surr: 4-Bromofluorobenzene	26.13	1.0	30	0	87.1	77-129	0			
Surr: Trifluorotoluene	26.51	1.0	30	0	88.4	75-130	0			

MSD Sample ID: 1006485-05AMSD Units: µg/L Analysis Date: 6/21/2010 10:56 PM

Client ID: Run ID: BTEX1_100621A SeqNo: 2002129 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.69	1.0	20	0.5836	85.5	77-126	18.52	4.58	20	
Toluene	14.08	1.0	20	0	70.4	80-124	14.84	5.27	20	S
Ethylbenzene	12.88	1.0	20	0	64.4	76-125	13.88	7.47	20	S
Xylenes, Total	38.42	3.0	60	0	64	79-124	40.78	5.95	20	S
Surr: 4-Bromofluorobenzene	25.78	1.0	30	0	85.9	77-129	26.13	1.35	20	
Surr: Trifluorotoluene	26.16	1.0	30	0	87.2	75-130	26.51	1.35	20	

The following samples were analyzed in this batch:

1006499-28A	1006499-30A	1006499-42A
1006499-43A	1006499-44A	1006499-45A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92907 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKW1-062110-R92907 Units: µg/L Analysis Date: 6/21/2010 10:54 PM

Client ID: Run ID: BTEX3_100621B SeqNo: 2002586 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether	ND	5.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.39	1.0	30	0	91.3	77-129	0			
Surr: Trifluorotoluene	31.53	1.0	30	0	105	75-130	0			

LCS Sample ID: BLCSW1-062110-R92907 Units: µg/L Analysis Date: 6/21/2010 10:33 PM

Client ID: Run ID: BTEX3_100621B SeqNo: 2002585 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.39	1.0	20	0	107	77-126	0			
Toluene	21.63	1.0	20	0	108	80-124	0			
Ethylbenzene	21.72	1.0	20	0	109	76-125	0			
Methyl tert-butyl ether	98.48	5.0	100	0	98.5	75-128	0			
Xylenes, Total	65.63	3.0	60	0	109	79-124	0			
Surr: 4-Bromofluorobenzene	32.27	1.0	30	0	108	77-129	0			
Surr: Trifluorotoluene	33.8	1.0	30	0	113	75-130	0			

MS Sample ID: 1006572-02AMS Units: µg/L Analysis Date: 6/22/2010 06:31 AM

Client ID: Run ID: BTEX3_100621B SeqNo: 2002611 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.64	1.0	20	0	123	77-126	0			
Toluene	24.69	1.0	20	0	123	80-124	0			
Ethylbenzene	24.36	1.0	20	0	122	76-125	0			
Methyl tert-butyl ether	115.9	5.0	100	0	116	75-128	0			
Xylenes, Total	73.69	3.0	60	0	123	79-124	0			
Surr: 4-Bromofluorobenzene	27.77	1.0	30	0	92.6	77-129	0			
Surr: Trifluorotoluene	30.62	1.0	30	0	102	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92907 Instrument ID BTEX3 Method: SW8021B

MSD Sample ID: 1006572-02AMSD Units: µg/L Analysis Date: 6/22/2010 06:51 AM

Client ID: Run ID: BTEX3_100621B SeqNo: 2002612 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.7	1.0	20	0	124	77-126	24.64	0.266	20	
Toluene	24.85	1.0	20	0	124	80-124	24.69	0.65	20	S
Ethylbenzene	24.7	1.0	20	0	124	76-125	24.36	1.39	20	
Methyl tert-butyl ether	115.7	5.0	100	0	116	75-128	115.9	0.191	20	
Xylenes, Total	73.71	3.0	60	0	123	79-124	73.69	0.0258	20	
Surr: 4-Bromofluorobenzene	27.25	1.0	30	0	90.8	77-129	27.77	1.91	20	
Surr: Trifluorotoluene	31.1	1.0	30	0	104	75-130	30.62	1.55	20	

The following samples were analyzed in this batch:

1006499-71A 1006499-72A 1006499-73A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92979 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061910-R92979 Units: mg/Kg Analysis Date: 6/19/2010 01:23 AM
Client ID: Run ID: FID-9_100618B SeqNo: 2004346 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09644	0.0050	0.1	0	96.4	70-130	0			

LCS Sample ID: GLCSS-061910-R92979 Units: mg/Kg Analysis Date: 6/19/2010 01:00 AM
Client ID: Run ID: FID-9_100618B SeqNo: 2004345 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.117	0.050	1	0	112	70-130	0			
Surr: 4-Bromofluorobenzene	0.1033	0.0050	0.1	0	103	70-130	0			

MS Sample ID: 1006499-01BMS Units: mg/Kg Analysis Date: 6/19/2010 06:02 AM
Client ID: WSB-1 10' Run ID: FID-9_100618B SeqNo: 2004357 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.184	0.050	1	0	118	70-130	0			
Surr: 4-Bromofluorobenzene	0.1048	0.0050	0.1	0	105	70-130	0			

MSD Sample ID: 1006499-01BMSD Units: mg/Kg Analysis Date: 6/19/2010 06:25 AM
Client ID: WSB-1 10' Run ID: FID-9_100618B SeqNo: 2004358 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.162	0.050	1	0	116	70-130	1.184	1.81	30	
Surr: 4-Bromofluorobenzene	0.105	0.0050	0.1	0	105	70-130	0.1048	0.239	30	

The following samples were analyzed in this batch:

1006499-01B	1006499-02B	1006499-03B
1006499-04B	1006499-05B	1006499-06B
1006499-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93007 Instrument ID BTEX1 Method: SW8021B

MBLK	Sample ID: MEOHW1-062210-R93007					Units: µg/L	Analysis Date: 6/22/2010 06:43 AM			
Client ID:	Run ID: BTEX1_100621B				SeqNo: 2004816	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.64	1.0	30	0	82.1	77-129	0			
Surr: Trifluorotoluene	25.45	1.0	30	0	84.8	75-130	0			

MBLK	Sample ID: BBLKW1-062210-R93007					Units: µg/L		Analysis Date: 6/22/2010 07:02 AM		
Client ID:	Run ID: BTEX1_100621B				SeqNo: 2004817		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.91	1.0	30	0	83	77-129	0			
Surr: Trifluorotoluene	25.17	1.0	30	0	83.9	75-130	0			

LCS	Sample ID: BLCSW1-062210-R93007					Units: µg/L		Analysis Date: 6/22/2010 12:22 PM		
Client ID:	Run ID: BTEX1_100621B				SeqNo: 2004828		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.68	1.0	20	0	108	77-126		0		
Toluene	20.23	1.0	20	0	101	80-124		0		
Ethylbenzene	20.63	1.0	20	0	103	76-125		0		
Xylenes, Total	59.76	3.0	60	0	99.6	79-124		0		
Surr: 4-Bromofluorobenzene	24.97	1.0	30	0	83.2	77-129		0		
Surr: Trifluorotoluene	26.63	1.0	30	0	88.8	75-130		0		

MS	Sample ID: 1006437-06AMS				Units: µg/L		Analysis Date: 6/22/2010 09:51 AM			
Client ID:	Run ID: BTEX1_100621B				SeqNo: 2004826		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.82	1.0	20	0	114	77-126	0			
Toluene	20.1	1.0	20	0	101	80-124	0			
Ethylbenzene	20.38	1.0	20	0	102	76-125	0			
Xylenes, Total	58.75	3.0	60	0	97.9	79-124	0			
Surr: 4-Bromofluorobenzene	26.39	1.0	30	0	88	77-129	0			
Surr: Trifluorotoluene	26.21	1.0	30	0	87.4	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93007 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 1006437-06AMSD Units: µg/L Analysis Date: 6/22/2010 11:32 AM

Client ID: Run ID: BTEX1_100621B SeqNo: 2004827 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.58	1.0	20	0	97.9	77-126	22.82	15.3	20	
Toluene	18.11	1.0	20	0	90.6	80-124	20.1	10.4	20	
Ethylbenzene	18.01	1.0	20	0	90.1	76-125	20.38	12.3	20	
Xylenes, Total	52.95	3.0	60	0	88.2	79-124	58.75	10.4	20	
Surr: 4-Bromofluorobenzene	25.44	1.0	30	0	84.8	77-129	26.39	3.66	20	
Surr: Trifluorotoluene	26.66	1.0	30	0	88.9	75-130	26.21	1.7	20	

The following samples were analyzed in this batch:

1006499-46A	1006499-47A	1006499-48A
1006499-51A	1006499-52A	1006499-53A
1006499-57A	1006499-62A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93037 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW1-062310-R93037 Units: µg/L Analysis Date: 6/23/2010 05:10 PM

Client ID: Run ID: BTEX1_100623A SeqNo: 2005693 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	25.78	1.0	30	0	85.9	77-129	0			
Surr: Trifluorotoluene	25.95	1.0	30	0	86.5	75-130	0			

MBLK Sample ID: BBLKW1-062310-R93037 Units: µg/L Analysis Date: 6/23/2010 05:27 PM

Client ID: Run ID: BTEX1_100623A SeqNo: 2005694 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	25.83	1.0	30	0	86.1	77-129	0			
Surr: Trifluorotoluene	26.99	1.0	30	0	90	75-130	0			

LCS Sample ID: BLCSW1-062310-R93037 Units: µg/L Analysis Date: 6/23/2010 11:43 PM

Client ID: Run ID: BTEX1_100623A SeqNo: 2005714 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22	1.0	20	0	110	77-126	0			
Toluene	19.77	1.0	20	0	98.9	80-124	0			
Ethylbenzene	21.82	1.0	20	0	109	76-125	0			
Xylenes, Total	58.41	3.0	60	0	97.4	79-124	0			
Surr: 4-Bromofluorobenzene	25.92	1.0	30	0	86.4	77-129	0			
Surr: Trifluorotoluene	25.72	1.0	30	0	85.7	75-130	0			

MS Sample ID: 1006437-29AMS Units: µg/L Analysis Date: 6/23/2010 07:55 PM

Client ID: Run ID: BTEX1_100623A SeqNo: 2005696 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.46	1.0	20	0	117	77-126	0			
Toluene	20.27	1.0	20	0	101	80-124	0			
Ethylbenzene	21.04	1.0	20	0	105	76-125	0			
Xylenes, Total	59.26	3.0	60	0	98.8	79-124	0			
Surr: 4-Bromofluorobenzene	25.43	1.0	30	0	84.8	77-129	0			
Surr: Trifluorotoluene	26.64	1.0	30	0	88.8	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93037 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 1006437-29AMSD Units: µg/L Analysis Date: 6/23/2010 08:12 PM

Client ID: Run ID: BTEX1_100623A SeqNo: 2005697 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.11	1.0	20	0	111	77-126	23.46	5.94	20	
Toluene	19.48	1.0	20	0	97.4	80-124	20.27	3.95	20	
Ethylbenzene	20.23	1.0	20	0	101	76-125	21.04	3.92	20	
Xylenes, Total	57.36	3.0	60	0	95.6	79-124	59.26	3.26	20	
Surr: 4-Bromofluorobenzene	25.67	1.0	30	0	85.6	77-129	25.43	0.918	20	
Surr: Trifluorotoluene	26.55	1.0	30	0	88.5	75-130	26.64	0.331	20	

The following samples were analyzed in this batch:

1006499-43A	1006499-47A	1006499-52A
1006499-53A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93104 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-062430-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:57 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2006998 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.73	1.0	30	0	92.4	75-131	0			
Surr: Trifluorotoluene	27.52	1.0	30	0	91.7	73-130	0			

LCS Sample ID: BLCSS1-062410-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:37 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2006996 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.76	1.0	20	0	109	74-129	0			
Toluene	21.5	1.0	20	0	107	75-128	0			
Ethylbenzene	21.25	1.0	20	0	106	73-127	0			
Xylenes, Total	65.04	3.0	60	0	108	74-127	0			
Surr: 4-Bromofluorobenzene	30.04	1.0	30	0	100	75-131	0			
Surr: Trifluorotoluene	29.37	1.0	30	0	97.9	73-130	0			

MS Sample ID: 1006812-08AMS Units: µg/Kg Analysis Date: 6/24/2010 07:29 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2007016 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.92	1.0	20	0	99.6	74-129	0			
Toluene	19.38	1.0	20	0	96.9	75-128	0			
Ethylbenzene	18.52	1.0	20	0	92.6	73-127	0			
Xylenes, Total	56.29	3.0	60	0	93.8	74-127	0			
Surr: 4-Bromofluorobenzene	27.28	1.0	30	0	90.9	75-131	0			
Surr: Trifluorotoluene	25.65	1.0	30	0	85.5	73-130	0			

MSD Sample ID: 1006812-08AMSD Units: µg/Kg Analysis Date: 6/24/2010 07:49 PM

Client ID: Run ID: BTEX3_100624B SeqNo: 2007017 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.57	1.0	20	0	97.9	74-129	19.92	1.75	30	
Toluene	18	1.0	20	0	90	75-128	19.38	7.39	30	
Ethylbenzene	16.92	1.0	20	0	84.6	73-127	18.52	9.03	30	
Xylenes, Total	51.35	3.0	60	0	85.6	74-127	56.29	9.18	30	
Surr: 4-Bromofluorobenzene	29.51	1.0	30	0	98.4	75-131	27.28	7.84	30	
Surr: Trifluorotoluene	28.07	1.0	30	0	93.6	73-130	25.65	9	30	

The following samples were analyzed in this batch: 1006499-48A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93159 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 03:44 PM

Client ID: Run ID: FID-9_100621A SeqNo: 2008100 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1071	0.0050	0.1	0	107	70-130	0			

LCS Sample ID: GLCSS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 02:57 PM

Client ID: Run ID: FID-9_100621A SeqNo: 2008097 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.197	0.050	1	0	120	70-130	0			
Surr: 4-Bromofluorobenzene	0.112	0.0050	0.1	0	112	70-130	0			

LCSD Sample ID: GLCSDS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 03:21 PM

Client ID: Run ID: FID-9_100621A SeqNo: 2008099 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.133	0.050	1	0	113	70-130	1.197	5.49	30	
Surr: 4-Bromofluorobenzene	0.1103	0.0050	0.1	0	110	70-130	0.112	1.58	30	

MS Sample ID: 1006499-25BMS Units: mg/Kg Analysis Date: 6/22/2010 01:25 AM

Client ID: WSB-3 100' Run ID: FID-9_100621A SeqNo: 2008126 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.172	0.050	1	0	117	70-130	0			
Surr: 4-Bromofluorobenzene	0.1101	0.0050	0.1	0	110	70-130	0			

MSD Sample ID: 1006499-25BMSD Units: mg/Kg Analysis Date: 6/22/2010 01:48 AM

Client ID: WSB-3 100' Run ID: FID-9_100621A SeqNo: 2008127 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.18	0.050	1	0	118	70-130	1.172	0.689	30	
Surr: 4-Bromofluorobenzene	0.1123	0.0050	0.1	0	112	70-130	0.1101	1.94	30	

The following samples were analyzed in this batch:

1006499-08B	1006499-09B	1006499-10B
1006499-11B	1006499-12B	1006499-13B
1006499-14B	1006499-15B	1006499-16B
1006499-17B	1006499-18B	1006499-19B
1006499-20B	1006499-21B	1006499-22B
1006499-23B	1006499-24B	1006499-25B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93162 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062210-R93162 Units: mg/Kg Analysis Date: 6/22/2010 02:58 AM

Client ID: Run ID: FID-9_100621B SeqNo: 2008159 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1103	0.0050	0.1	0	110	70-130	0			

LCS Sample ID: GLCSS-062210-R93162 Units: mg/Kg Analysis Date: 6/22/2010 02:35 AM

Client ID: Run ID: FID-9_100621B SeqNo: 2008158 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.147	0.050	1	0	115	70-130	0			
Surr: 4-Bromofluorobenzene	0.115	0.0050	0.1	0	115	70-130	0			

MS Sample ID: 1006499-34BMS Units: mg/Kg Analysis Date: 6/22/2010 05:42 AM

Client ID: WSB-6 40' Run ID: FID-9_100621B SeqNo: 2008167 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.203	0.050	1	0	120	70-130	0			
Surr: 4-Bromofluorobenzene	0.1122	0.0050	0.1	0	112	70-130	0			

MSD Sample ID: 1006499-34BMSD Units: mg/Kg Analysis Date: 6/22/2010 06:05 AM

Client ID: WSB-6 40' Run ID: FID-9_100621B SeqNo: 2008168 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.153	0.050	1	0	115	70-130	1.203	4.3	30	
Surr: 4-Bromofluorobenzene	0.1125	0.0050	0.1	0	112	70-130	0.1122	0.226	30	

The following samples were analyzed in this batch:

1006499-26B	1006499-27B	1006499-29B
1006499-31B	1006499-32B	1006499-33B
1006499-34B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93163 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 03:17 PM
Client ID: Run ID: FID-9_100622B SeqNo: 2008172 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09376	0.0050	0.1	0	93.8	70-130	0			

LCS Sample ID: GLCSS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 01:49 PM
Client ID: Run ID: FID-9_100622B SeqNo: 2008170 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8946	0.050	1	0	89.5	70-130	0			
Surr: 4-Bromofluorobenzene	0.0986	0.0050	0.1	0	98.6	70-130	0			

LCSD Sample ID: GLCSDS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 02:53 PM
Client ID: Run ID: FID-9_100622B SeqNo: 2008171 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8709	0.050	1	0	87.1	70-130	0.8946	2.68	30	
Surr: 4-Bromofluorobenzene	0.09533	0.0050	0.1	0	95.3	70-130	0.0986	3.38	30	

MS Sample ID: 1006499-49ZMS Units: mg/Kg Analysis Date: 6/23/2010 03:52 AM
Client ID: Run ID: FID-9_100622B SeqNo: 2008185 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.009	0.050	1	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	0.08334	0.0050	0.1	0	83.3	70-130	0			

MSD Sample ID: 1006499-49ZMSD Units: mg/Kg Analysis Date: 6/23/2010 04:15 AM
Client ID: Run ID: FID-9_100622B SeqNo: 2008186 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.028	0.050	1	0	103	70-130	1.009	1.9	30	
Surr: 4-Bromofluorobenzene	0.0834	0.0050	0.1	0	83.4	70-130	0.08334	0.0756	30	

The following samples were analyzed in this batch:

1006499-35B	1006499-36B	1006499-37B
1006499-38B	1006499-39B	1006499-40B
1006499-41B	1006499-48B	1006499-56B
1006499-57B	1006499-70B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93164 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062310-R93164 Units: mg/Kg Analysis Date: 6/23/2010 03:06 AM

Client ID: Run ID: FID-9_100622C SeqNo: 2008205 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.07826	0.0050	0.1	0	78.3	70-130	0			

LCS Sample ID: GLCSS-062310-R93164 Units: mg/Kg Analysis Date: 6/23/2010 02:19 AM

Client ID: Run ID: FID-9_100622C SeqNo: 2008203 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9896	0.050	1	0	99	70-130	0			
Surr: 4-Bromofluorobenzene	0.08296	0.0050	0.1	0	83	70-130	0			

LCSD Sample ID: GLCSDS-062310-R93164 Units: mg/Kg Analysis Date: 6/23/2010 02:42 AM

Client ID: Run ID: FID-9_100622C SeqNo: 2008204 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.018	0.050	1	0	102	70-130	0.9896	2.82	30	
Surr: 4-Bromofluorobenzene	0.08253	0.0050	0.1	0	82.5	70-130	0.08296	0.524	30	

MS Sample ID: 1006499-49BMS Units: mg/Kg Analysis Date: 6/23/2010 03:52 AM

Client ID: WSB-4 100' Run ID: FID-9_100622C SeqNo: 2008207 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.009	0.050	1	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	0.08334	0.0050	0.1	0	83.3	70-130	0			

MSD Sample ID: 1006499-49BMSD Units: mg/Kg Analysis Date: 6/23/2010 04:15 AM

Client ID: WSB-4 100' Run ID: FID-9_100622C SeqNo: 2008208 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.028	0.050	1	0	103	70-130	1.009	1.9	30	
Surr: 4-Bromofluorobenzene	0.0834	0.0050	0.1	0	83.4	70-130	0.08334	0.0756	30	

The following samples were analyzed in this batch:

1006499-49B	1006499-50B	1006499-54B
1006499-55B	1006499-58B	1006499-59B
1006499-60B	1006499-61B	1006499-62B
1006499-63B	1006499-64B	1006499-65B
1006499-66B	1006499-67B	1006499-68B
1006499-69B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R93165 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GMEOHW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 02:40 PM
Client ID: Run ID: FID-9_100623B SeqNo: 2008241 Prep Date: DF: 500

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	25								
Surr: 4-Bromofluorobenzene	44.65	2.5	50	0	89.3	70-130	0			

LCS Sample ID: GLCSW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 01:29 PM
Client ID: Run ID: FID-9_100623B SeqNo: 2008238 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9599	0.050	1	0	96	70-130	0			
Surr: 4-Bromofluorobenzene	0.09108	0.0050	0.1	0	91.1	70-130	0			

LCSD Sample ID: GLCSDW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 01:53 PM
Client ID: Run ID: FID-9_100623B SeqNo: 2008239 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9168	0.050	1	0	91.7	70-130	0.9599	4.59	30	
Surr: 4-Bromofluorobenzene	0.0914	0.0050	0.1	0	91.4	70-130	0.09108	0.349	30	

The following samples were analyzed in this batch:

1006499-14B	1006499-15B	1006499-28B
1006499-29B	1006499-30B	1006499-42B
1006499-43B	1006499-44B	1006499-45B
1006499-46B	1006499-47B	1006499-48B
1006499-51B	1006499-52B	1006499-53B
1006499-57B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44095 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 09:42 AM

Client ID: Run ID: ICS2100_100629C SeqNo: 2012568 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	47.18	1.0	50	0	94.4	85-115	0			

LCS Sample ID: WLCSS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 09:56 AM

Client ID: Run ID: ICS2100_100629C SeqNo: 2012569 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	205.6	5.0	200	0	103	90-110	0			
Surr: Selenate (surr)	51.76	1.0	50	0	104	85-115	0			

LCSD Sample ID: WLCSDS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 10:11 AM

Client ID: Run ID: ICS2100_100629C SeqNo: 2012570 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	192.8	5.0	200	0	96.4	90-110	205.6	6.43	20	
Surr: Selenate (surr)	48.34	1.0	50	0	96.7	85-115	51.76	6.83	20	

MS Sample ID: 1006499-01BMS Units: mg/Kg Analysis Date: 6/29/2010 10:40 AM

Client ID: WSB-1 10' Run ID: ICS2100_100629C SeqNo: 2012572 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	136.1	5.0	99.4	34.34	102	75-125	0			
Surr: Selenate (surr)	51.93	0.99	49.7	0	104	80-120	0			

MS Sample ID: 1006499-20BMS Units: mg/Kg Analysis Date: 6/29/2010 08:15 PM

Client ID: WSB-3 50' Run ID: ICS2100_100629C SeqNo: 2012609 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106	5.0	99.4	6.571	100	75-125	0			
Surr: Selenate (surr)	46.18	0.99	49.7	0	92.9	80-120	0			

MSD Sample ID: 1006499-01BMSD Units: mg/Kg Analysis Date: 6/29/2010 10:54 AM

Client ID: WSB-1 10' Run ID: ICS2100_100629C SeqNo: 2012573 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	132.5	5.0	99.4	34.34	98.8	75-125	136.1	2.69	20	
Surr: Selenate (surr)	51.13	0.99	49.7	0	103	80-120	51.93	1.54	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **44095**

Instrument ID **ICS2100**

Method: **E300**

The following samples were analyzed in this batch:

1006499-01b	1006499-02B	1006499-03B
1006499-04B	1006499-05B	1006499-06B
1006499-07B	1006499-08B	1006499-09B
1006499-10B	1006499-11B	1006499-12B
1006499-13B	1006499-14B	1006499-15B
1006499-16B	1006499-17B	1006499-18B
1006499-19B	1006499-20b	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44164 Instrument ID ICS2100 Method: E300

MBLK		Sample ID: WBLKS1-062810-44164			Units: mg/Kg		Analysis Date: 6/30/2010 12:23 AM			
Client ID:		Run ID: ICS2100_100629E			SeqNo: 2013477		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	48.78	1.0	50	0	97.6	85-115	0			

LCS		Sample ID: WLCSS1-062810-44164			Units: mg/Kg		Analysis Date: 6/30/2010 12:38 AM			
Client ID:		Run ID: ICS2100_100629E			SeqNo: 2013478		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.5	5.0	200	0	101	90-110	0			
Surr: Selenate (surr)	50.58	1.0	50	0	101	85-115	0			

LCSD		Sample ID: WLCSDS1-062810-44164			Units: mg/Kg		Analysis Date: 6/30/2010 03:33 PM			
Client ID:		Run ID: ICS2100_100629E			SeqNo: 2013525		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	197.4	5.0	200	0	98.7	90-110	202.5	2.56	20	
Surr: Selenate (surr)	48.91	1.0	50	0	97.8	85-115	50.58	3.36	20	

MS		Sample ID: 1006499-21BMS			Units: mg/Kg		Analysis Date: 6/30/2010 01:21 AM			
Client ID: WSB-3 60'		Run ID: ICS2100_100629E			SeqNo: 2013479		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	109.1	5.0	100	10.91	98.2	75-125	0			
Surr: Selenate (surr)	50.73	1.0	50	0	101	80-120	0			

MS		Sample ID: 1006499-40BMS			Units: mg/Kg		Analysis Date: 6/30/2010 07:25 AM			
Client ID: WSB-6 100'		Run ID: ICS2100_100629E			SeqNo: 2013510		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	144.8	5.0	99.21	35.71	110	75-125	0			
Surr: Selenate (surr)	54.19	0.99	49.6	0	109	80-120	0			

MSD		Sample ID: 1006499-21BMSD			Units: mg/Kg		Analysis Date: 6/30/2010 01:36 AM			
Client ID: WSB-3 60'		Run ID: ICS2100_100629E			SeqNo: 2013480		Prep Date: 6/28/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.4	5.0	100	10.91	96.4	75-125	109.1	1.58	20	
Surr: Selenate (surr)	50.96	1.0	50	0	102	80-120	50.73	0.452	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44164 Instrument ID ICS2100 Method: E300

MSD Sample ID: 1006499-40BMSD Units: mg/Kg Analysis Date: 6/30/2010 07:40 AM
Client ID: WSB-6 100' Run ID: ICS2100_100629E SeqNo: 2013511 Prep Date: 6/28/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	136.8	5.0	99.21	35.71	102	75-125	144.8	5.69	20	
Surr: Selenate (surr)	51.69	0.99	49.6	0	104	80-120	54.19	4.72	20	

The following samples were analyzed in this batch:

1006499-21B	1006499-22B	1006499-23B
1006499-24B	1006499-25B	1006499-26B
1006499-27B	1006499-28B	1006499-29B
1006499-30B	1006499-31B	1006499-32B
1006499-33B	1006499-34B	1006499-35B
1006499-36B	1006499-37B	1006499-38B
1006499-39B	1006499-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44170 Instrument ID ICS2100 Method: E300

MBLK		Sample ID: WBLKS3-063010-44170				Units: mg/Kg		Analysis Date: 7/1/2010 07:05 PM		
Client ID:		Run ID: ICS2100_100701A				SeqNo: 2016533		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
Surr: Selenate (surr)	42.94	1.0	50	0	85.9	85-115	0			

LCS		Sample ID: WBLKS3-063010-44170				Units: mg/Kg		Analysis Date: 7/1/2010 07:20 PM		
Client ID:		Run ID: ICS2100_100701A				SeqNo: 2016534		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	197.7	5.0	200	0	98.8	90-110	0			
Surr: Selenate (surr)	47.51	1.0	50	0	95	85-115	0			

LCSD		Sample ID: WLCSDS3-063010-44170				Units: mg/Kg		Analysis Date: 7/1/2010 08:24 PM		
Client ID:		Run ID: ICS2100_100701A				SeqNo: 2016535		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	182.6	5.0	200	0	91.3	90-110	0			
Surr: Selenate (surr)	43.88	1.0	50	0	87.8	85-115	0			

MS		Sample ID: 1006499-41BMS				Units: mg/Kg		Analysis Date: 7/1/2010 08:54 PM		
Client ID: WSB-6 110'		Run ID: ICS2100_100701A				SeqNo: 2016537		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	125.3	5.0	100	26.65	98.6	75-125	0			
Surr: Selenate (surr)	46.45	1.0	50	0	92.9	80-120	0			

MS		Sample ID: 1006499-60BMS				Units: mg/Kg		Analysis Date: 7/2/2010 02:57 AM		
Client ID: WSB-7 10'		Run ID: ICS2100_100701A				SeqNo: 2016570		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.4	5.0	99.6	12.52	95.2	75-125	0			
Surr: Selenate (surr)	44.87	1.0	49.8	0	90.1	80-120	0			

MSD		Sample ID: 1006499-41BMSD				Units: mg/Kg		Analysis Date: 7/1/2010 09:08 PM		
Client ID: WSB-6 110'		Run ID: ICS2100_100701A				SeqNo: 2016538		Prep Date: 6/30/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	119.8	5.0	100	26.65	93.2	75-125	125.3	4.45	20	
Surr: Selenate (surr)	44.54	1.0	50	0	89.1	80-120	46.45	4.2	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44170 Instrument ID ICS2100 Method: E300

MSD Sample ID: 1006499-60BMSD Units: mg/Kg Analysis Date: 7/2/2010 03:12 AM
Client ID: WSB-7 10' Run ID: ICS2100_100701A SeqNo: 2016571 Prep Date: 6/30/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	103.6	5.0	99.6	12.52	91.5	75-125	107.4	3.55	20	
Surr: Selenate (surr)	42.91	1.0	49.8	0	86.2	80-120	44.87	4.47	20	

The following samples were analyzed in this batch:

1006499-41B	1006499-42B	1006499-43B
1006499-44B	1006499-45B	1006499-46B
1006499-47B	1006499-48B	1006499-49B
1006499-50B	1006499-51B	1006499-52B
1006499-53B	1006499-54B	1006499-55B
1006499-56B	1006499-57B	1006499-58B
1006499-59B	1006499-60B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1006499
 Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: 44178 Instrument ID ICS2100 Method: E300

MBLK	Sample ID: WBLKS3-070110-44178				Units: mg/Kg		Analysis Date: 7/2/2010 06:44 AM			
Client ID:	Run ID: ICS2100_100701B				SeqNo: 2016635		Prep Date: 7/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0								
<i>Surr: Selenate (surr)</i>	<i>45.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>91.6</i>	<i>85-115</i>	<i>0</i>			

LCS	Sample ID: WLCSS3-070110-44178				Units: mg/Kg		Analysis Date: 7/2/2010 06:58 AM			
Client ID:	Run ID: ICS2100_100701B				SeqNo: 2016636		Prep Date: 7/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	204	5.0	200	0	102	90-110	0			
Surr: Selenate (surr)	49.03	1.0	50	0	98.1	85-115	0			

LCSD	Sample ID: WLCSDS3-070110-44178					Units: mg/Kg		Analysis Date: 7/2/2010 07:13 AM		
Client ID:	Run ID: ICS2100_100701B					SeqNo: 2016637		Prep Date: 7/1/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	203.7	5.0	200	0	102	90-110	204	0.123	20	
Surr: Selenate (surr)	49.03	1.0	50	0	98.1	85-115	49.03	0	20	

MS	Sample ID: 1006499-61BMS				Units: mg/Kg		Analysis Date: 7/2/2010 07:56 AM				
Client ID: WSB-7 20'			Run ID: ICS2100_100701B			SeqNo: 2016640		Prep Date: 7/1/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	131	5.0	99.21	20.3	112	75-125	0				
Surr: Selenate (surr)	52.17	0.99	49.6	0	105	80-120	0				

MSD	Sample ID: 1006499-61BMSD					Units: mg/Kg		Analysis Date: 7/2/2010 08:11 AM		
Client ID: WSB-7 20'			Run ID: ICS2100_100701B			SeqNo: 2016641		Prep Date: 7/1/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	111.6	5.0	99.21	20.3	92	75-125	131	16	20	
Surr: Selenate (surr)	44.26	0.99	49.6	0	89.2	80-120	52.17	16.4	20	

DUP	Sample ID: 1006499-61BDUP					Units: mg/Kg		Analysis Date: 7/2/2010 07:42 AM		
Client ID: WSB-7 20'			Run ID: ICS2100_100701B			SeqNo: 2016639		Prep Date: 7/1/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	41.26	10	0	0	0	0-0	20.3	68.1	20	R
Surr: Selenate (surr)	85.38	2.0	100	0	85.4	85-115	42.04	68	20	R

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1006499
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: **44178** Instrument ID **ICS2100** Method: **E300**

The following samples were analyzed in this batch:

1006499-61B	1006499-62B	1006499-63B
1006499-64B	1006499-65B	1006499-66B
1006499-67B	1006499-68B	1006499-69B
1006499-70B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

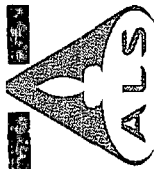
Client: Navajo Refining Company
Project: Lea Refinery Soil Borings
WorkOrder: 1006499

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



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Chain of Custody Form

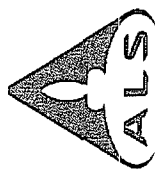
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Page 1 of 3

Customer Information				Project Information				ALS Work Order # 106499											
Project Name				Lea Refinery				Parameter/Method Request for Analysis											
Project Number				NAV-10-00000002															
Bill To Company				Navajo Refining Company															
Invoice Attn				Darrell Moore															
Address				P.O. Box 159															
City/State/Zip				Artesia, NM 80211															
Phone				(505) 740-3311															
Fax				(505) 746-5421															
E-Mail Address				dgmoyne@SES1-NM.com															
No.	Sample Description	Date	Time	Matrix	Pres.	Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	WSB-1 10'	6/8/10	1050	50:1	8	2		X	X	X	X								
2	20'		1100																
3	30'		1110																
4	40'		1120																
5	50'		1135																
6	60'		1135																
7	70'		1145																
8	80'		1245																
9	90'		1235																
10	WSB-1 100'	6/8/10	1305	50:1	8	2	X	X	X	X	X								

Sampler(s) Release, Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
ALS Release (Signature)		FedEx		10 WK Days		10 Day TAT, Co Dave Boyer	
Relinquished by:	Date: 6/14/10	Time: 1230	Received by:	Date: 6/15/10	Time: 140	Notes: 10 Day TAT, Co Dave Boyer	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:	Notes:	
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ S ₂ O ₃ , 6-NaHSO ₃ , 7-Other, 8-4°C, 9-5035		Cooler ID:		Cooler Temp:		QC Package: (Check One Box Below)	
						☒ Level II Std QC ☐ TRRP Checklist	
						☐ Level III Std QC/RAW Data ☐ TRRP Level IV	
						☐ Level IV SW/450CLP ☐ Other	



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Chain of Custody Form

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Page 2 of 2

Customer Information				Project Information				Parameter/Method Request for Analysis														
Purchase Order	Project Name	Project Number	Bill To Company	Invoice Attn	City/State/Zip	Phone	Fax	e-Mail Address	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
Work Order	Lea Refinery	NAV-10-000002	Navajo Refining Company	Darrell Moore	Artesia, NM 88211	(505) 748-3311	(505) 746-5421	digboyer@SES-NM.com	Seil	8	2	X	X	X	X	X						
Company Name	Navajo Refining Company																					
Send Report To	Darrell Moore																					
Address	P.O. Box 159																					
City/State/Zip	Artesia, NM 88211																					
Phone	(505) 748-3311																					
Fax	(505) 746-5421																					
e-Mail Address	digboyer@SES-NM.com																					
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold					
1	WSB-1 110'	6/8/10	1315	Seil	8	2	X	X	X	X	X											
2	WSB-2 10'	6/9/10	0715																			
3	20'		0725																			
4	30'		0820																			
5	WSB-2 40'	6/9/10	0830																			
6	WSB-3 10'		0920																			
7	20'		0930																			
8	30'		0940																			
9	40'		0950																			
10	WSB-3 50'	6/9/10	1000	Seil	8	2	X	X	X	X	X											
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time (Check Box)				Results Due Date:										
Digboyer				Fed Ex				Faster in WK Days				Faster in WK Days										
Relinquished by: <u>Digboyer</u>				Time: <u>1630</u>				Received by: <u>Digboyer</u>				Time: <u>1630</u>				Relinquished by: <u>Digboyer</u>						
Relinquished by: <u>Digboyer</u>				Time: <u>1630</u>				Received by: <u>Digboyer</u>				Time: <u>1630</u>				Relinquished by: <u>Digboyer</u>						
Logged by (Laboratory):				Date: <u>6/14/10</u>				Checked by (Laboratory):				Date: <u>6/14/10</u>				Checked by (Laboratory):						
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																						

QC Package: (Check One Box Below)

☒ Level III Std QC

☐ Level III Std QC/Raw Data

☐ Level IV SWD46/CPL

☐ Other

Notes: 10 Day TAT. Co Dave Boyer

QC Package: (Check One Box Below)

☒ TRRP Check 131

☐ TRRP Level IV

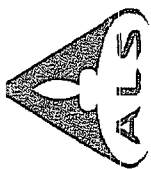
Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Company Name	Send Report To	e-Mail Address	Project Name	Bill To Company	Project Number	Lea Refining	A	B	C	D	E	F	G	H	J	Hold		
Work Order	Company Name	Send Report To	e-Mail Address	Project Name	Bill To Company	Project Number	Lea Refining	A	B	C	D	E	F	G	H	J	Hold		
	Navajo Refining Company	Darrell Moore	dgmoye@SES1-NM.com	Project Name	Navajo Refining Company	NAV-10-002	NAV-10-002												
				Invoice Attn	Darrell Moore														
				Address	P.O. Box 159														
				City/State/Zip	Artesia, NM 80211														
				Phone	(505) 740-3311														
				Fax	(505) 746-5421														
				e-Mail Address															
				Sample Description															
1	WSB-3	60'	6/9/10	1010	501	8	2	X	X	X	X	X							
2		70'	1020																
3		80'	1040																
4		90'	1050																
5		100'	1105																
6		110'	1115																
7	WSB-4	10'	1330																
8		20'	1340																
9	WSB-5	10'	1430																
10		20'	1440																
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:							
D.C. Boyer				Fed Ex				1-24 Hours				1-24 Hours							
Relinquished by:				Received by:				Notes:				Notes:							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer				10 Day TAT. Co Dave Boyer							
Relinquished by:				Received by:				Cooler ID				Cooler Temp.							
Date: 6/14/10				Date: 6/15/10				10 Day TAT. Co Dave Boyer											

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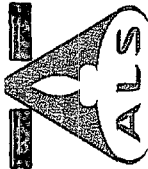
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Page 4 of 8

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Project Name			Project Manager			ALS Work Order #												
Work Order	Project Number			Lea Refinery New Mills Soil Remediation			BTEX (8021)												
Company Name	Bill To Company			NAV-10-000 002			GRO (8015M)												
Send Report To	Invoice Attn			Navajo Refining Company			DRO (8015M)												
Address	Darrell Moore			P.O. Box 159			ORO (8015M)												
City/State/Zip	Artesia, NM 88211			(505) 748-3311			Antions (300) C1												
Phone	(505) 748-3311			(505) 748-5421															
Fax	(505) 748-5421																		
e-Mail Address	dghoyer@SES-NM.com																		
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	W5B-6 10'	6/10/10	0700	Soil	8	2		X	X	X	X								
2	20'		0710																
3	30'		0720																
4	40'		0730																
5	50'		0750																
6	60'		0800																
7	70'		0825																
8	80'		0835																
9	90'		0845																
10	W5B-6 100'	6/10/10	0855	Soil	8	2		X	X	X	X								
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:							
AT Boyer				Fed Ex				5 Business Days				10 Day TAT. Co Days Boyer							
Relinquished by: AT Boyer				Date: 6/14/10				Time: 1630				Relinquished by:							
Relinquished by:				Date:				Time:				Relinquished by:							
Logged by (Laboratory):				Date:				Time:				Logged by (Laboratory):							
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ SeO ₃ , 6-NaHSO ₄ , 7-Other: 8-4°C, 9-5035				Received by (Laboratory):				Cooler Temp:				QC Packaging: (Check One Box Below)							
				AT Boyer				10 Day TAT. Co Days Boyer				☒ Level II Std QC ☐ TRRP Check In							
												☐ Level III Std QC ☐ TRRP Check In							
												☐ Level IV SW846/CLP ☐ TRRP Level IV							
												☐ Other ☐							

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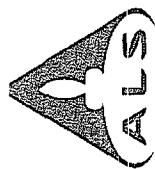
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Customer Information				Project Information				ALS Project Manager: <u>Soil/Biology</u> Parameter/Method Request for Analysis											
Purchase Order	Project Name	Project Number	Project Manager	Project Name	Project Number	Project Manager	Parameter/Method Request for Analysis												
Company Name	Navajo Refining Company	Navajo Refining Company	Navajo Refining Company	Company Name	Navajo Refining Company	Navajo Refining Company	Navajo Refining Company												
Send Report To	Darrell Moore	Invoice Attn	Darrell Moore	Send Report To	Darrell Moore	Invoice Attn	Darrell Moore												
Address	P.O. Box 159	Address	P.O. Box 159	Address	P.O. Box 159	Address	P.O. Box 159												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211												
Phone	(505) 748-3311	Phone	(505) 748-3311	Phone	(505) 748-3311	Phone	(505) 748-3311												
Fax	(505) 746-5421	Fax	(505) 746-5421	Fax	(505) 746-5421	Fax	(505) 746-5421												
e-Mail Address	dgbayer@SES1-NM.com	e-Mail Address	dgbayer@SES1-NM.com	e-Mail Address	dgbayer@SES1-NM.com	e-Mail Address	dgbayer@SES1-NM.com												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	Results Due Date												
1	WSB-6 110'	6/12/10	0900	Soil	8	2	X												
2	WSB-4 30'	6/12/10	1115	Soil	8	2	X												
3	WSB-4 40'	6/12/10	1125	Soil	8	2	X												
4	WSB-4 50'	6/12/10	1135	Soil	8	2	X												
5	WSB-4 60'	6/12/10	1140	Soil	8	2	X												
6	WSB-4 70'	6/12/10	1250	Soil	8	2	X												
7	WSB-4 80'	6/12/10	1300	Soil	8	2	X												
8	WSB-4 90'	6/12/10	1310	Soil	8	2	X												
9	WSB-4 100'	6/12/10	1320	Soil	8	2	X												
10	WSB-4 110'	6/12/10	1330	Soil	8	2	X												
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date							
D.G. Boyer				FedEx				10 Day TAT. Co. Dave Boyer				Level II Std QC							
Relinquished by:				Date: 6/14/10 Time: 1230				Relinquished by:				Level III Std QC/Raw Data							
Relinquished by:				Date: 6/14/10 Time: 1230				Relinquished by:				Level IV SW016/CPL							
Logged by (Laboratory):				Date: 6/14/10 Time: 1230				Logged by (Laboratory):				Other							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NAHSO ₄ 7-Other 8-4°C 9-5035				Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NAHSO ₄ 7-Other 8-4°C 9-5035				Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NAHSO ₄ 7-Other 8-4°C 9-5035				Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NAHSO ₄ 7-Other 8-4°C 9-5035							

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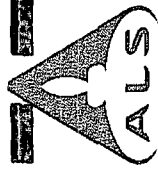
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Customer Information				Project Information				ALS Work Order #: 1004099											
Project Name				Lea Refinery Near Mettla Spill Response				Parameter/Method Request for Analysis											
Project Number				NAV-10-002 002				BTEX (8021)											
Bill To Company				Navajo Refining Company				GRO (8015M)											
Invoice Attn				Darrell Moore				DRO (8015M)											
Address				P.O. Box 159				ORO (8015M)											
City/State/Zip				Artesia, NM 88211				Anions (300) Cl											
Phone				(505) 748-3311															
Fax				(505) 748-5421															
e-Mail Address				dgboyer@SESI-NM.com															
No.	Sample Description	Date	Time	Matrix	Pres	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	WSB-5 30'	6/11/10	0655	Soil	B	2	X	X	X	X	X								
2	40'		0705																
3	50'		0720																
4	60'		0730																
5	70'		0740																
6	80'		0750																
7	90'		0800																
8	100'		0810																
9	WSB-5 110'		0820																
10	WSB-7 12'	6/11/10	1200	Soil	B	2	X	X	X	X	X								
Sampler(s) Please Print & Sign				D.G. Boyer				Required Turnaround Time: (Check Box)				Results Due Date:							
								5 Mins				124 Hours							
Relinquished by:				D.G. Boyer				Received by (Laboratory):				DC Package: (Check One Box Below)							
								Received by (Laboratory):				Level II Std QC							
Relinquished by:				D.G. Boyer				Checked by (Laboratory):				Level III Std QC							
								Checked by (Laboratory):				Level IV SW/24/CLP							
Logged by (Laboratory):								Preservative Key:				Other							
								1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ O ₃ 6-NaHSO ₃ 7-Other											



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ALS Work Order #: 100400

Parameter/Method Request for Analysis

Project Information

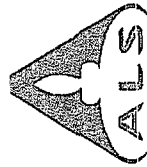
Purchase Order	Project Name	Lea Refinery	Project Manager	ALS Project Manager
Work Order	Project Number	NAV-10-555 002		
Company Name	Bill To Company	Navajo Refining Company		
Send Report To	Invoice Attn	Darrell Moore		
Address	Address	P.O. Box 159		
City/State/Zip	City/State/Zip	Artesia, NM 88211		
Phone	Phone	(505) 748-3311		
Fax	Fax	(505) 746-5421		
e-Mail Address	e-Mail Address	digboyer@SES1-NM.com		

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W5B-7 20'	6/4/10	1210	Soil	8	2	X	X	X	X	X						
2	30'		1325														
3	40'		1335														
4	50'		1340														
5	60'		1350														
6	70'		1400														
7	80'		1410														
8	90'		1430														
9	100'		1440														
10	W5B-7 110'	6/4/10	1450	Soil	8	2	X	X	X	X	X						

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
D. Digboyer	500 EX	10 WK Days	10 Day TAT, Co Dave Boyer
Relinquished by:	Date: 6/4/10	Time: 1630	Received by: (Laboratory)
Relinquished by:	Date:	Time:	Checked by: (Laboratory)
Logged by: (Laboratory)	Date:	Time:	Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ S ₂ O ₃ , 6-NaHSO ₃ , 7-Other: 8-4°C, 9-5035
OC Package: (Check One Box Below)	Level II Std QC	Level III Std QC/Run Data	Level IV SW0346/CLP
TRAP Checklist	TRAP Level IV		

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Customer Information				Project Information				ALS Project Manager:				ALS Work Order #:			
Purchase Order:				Project Name:				Parameter/Method Request for Analysis							
Work Order:				Project Number:				VOC (6200) Select							
Company Name:				Bill To Company:				Total Metals (6020/7000) Hg							
Send Report To:				Invoice Attn:				Dissolved Metals (6020/7000) Select							
Address:				P.O. Box 159				Anions (300) Cl, F, SO4							
City/State/Zip:				Artesia, NM 80211				Alkalinity							
Phone:				(505) 746-3311				pH							
Fax:				(505) 746-5421				Specific Conductivity							
E-Mail Address:				dgboyer@GESC-NM.com				TDS							
Sample Description:				Date:				Matrix:				Pres. #Bottles:			
No. 1				T.R.P. Blank 052410-13				H2O				1, 2			
No. 2				T.R.P. Blank 052810-59				H2O				1, 2			
No. 3				T.R.P. Blank 040810-36				H2O				1, 2			
No. 4															
No. 5															
No. 6															
No. 7															
No. 8															
No. 9															
No. 10															
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:			
D. G. Boyer				FedEx											
Requested by:				Received by (Laboratory):				Notes:							
D. G. Boyer				K. F. G/S/D				10 Day Turn							
Relinquished by:				Checked by (Laboratory):				Cooler ID:				Cooler Temp:			
D. G. Boyer				K. F. G/S/D											
Logged by (Laboratory):				Date:				Date:				QC Package: (Check One Box Below)			
				6/14/10				6/14/10				Level 1 5000			
Preservative Key: 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other				8-4°C, 9-50/55								Level 2 5000			

ALS Laboratory Group

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 15-Jun-10 11:40

Work Order: 1006499

Received by: RDH

Checklist completed by Raymond N Gambia
eSignature

15-Jun-10
Date

Reviewed by:

eSignature

Date

Matrices: Soil, Water

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

1.6c, 2.3c, 2.7c

002

Cooler(s)/Kit(s):

2497, 3283, 1509

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

if this portion can be removed for recipient's records

to 6/14/10

FedEx
Tracking Number

873133852620

W.O.# 1006199

Order's
Phone

Bayer

Phone

575 390-7167

Company

SESI

Address

703 E Clinton

1509

Dept./Floor/Suite/Room

City

Hobbs

State

NM

ZIP

87006

Internal Billing Reference

NAV-10-002

88540



ALS Laboratory Group

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date:

6/14/10

Time:

1630

Name:

Bayer

Company:

SESI

Seal Broken By:

AK

Date: 6/15/10



ALS Laboratory Group

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
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CUSTODY SEAL

Date:

6/14/10

Time:

1630

Name:

Bayer

Company:

SESI

Seal Broken By:

AK

Date: 6/15/10

This portion can be removed for recipient's records.

873133853486

W.O.# 1000499

Date: 4/14/10

FedEx Tracking Number

Sender's name

B. ROYER

Phone: 753907767

Company

SESI

Address

703 E Clinton

Dept./Floor/Suite/Room

Hobbs

State

NM ZIP 88240

Our Internal Billing Reference

NAU-10-002



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Laboratory Group

, Suite 210

CUSTODY SEAL

Seal Broken By:

Date:

4/14/10

Time:

1630

Name:

B. ROYER

Company:

SESI

Date:

4/15/10

CUSTODY SEAL

Seal Broken By:

Date:

6/14/10

Time:

1630

Name:

B. ROYER

Company:

SESI

Date:

6/15/10

This portion can be removed for recipient's records.

869809950908

Date: 4/14/10

FedEx Tracking Number

Sender's name

B. ROYER

Phone

5753917067

Company

SESI

Address

703 E Clinton

Dept./Floor/Suite/Room

Hobbs

State

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, Suite 210

099

36

187

CUSTODY SEAL

Seal Broken By:

Date:

4/14/10

Time:

1630

Name:

B. ROYER

Company:

SESI

Date:

4/14/10



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CUSTODY SEAL

Date:

6/14/10

Time:

1630

Name:

B. ROYER

Company:

SESI

SEA

1630

4/15/10

4/15/10

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

19-Jul-2010

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733

Fax: (575) 746-5421

Re: Lea Refining Soil Borings

Work Order: **1007008**

Dear Darrell,

ALS Laboratory Group received 46 samples on 30-Jun-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 75.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Work Order: 1007008

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007008-01	WSB-8 10'	Soil		6/26/2010 08:20	6/30/2010 09:00	☐
1007008-02	WSB-8 20'	Soil		6/26/2010 08:25	6/30/2010 09:00	☐
1007008-03	WSB-8 30'	Soil		6/26/2010 08:35	6/30/2010 09:00	☐
1007008-04	WSB-8 40'	Soil		6/26/2010 08:40	6/30/2010 09:00	☐
1007008-05	WSB-8 50'	Soil		6/26/2010 08:50	6/30/2010 09:00	☐
1007008-06	WSB-8 60'	Soil		6/26/2010 09:05	6/30/2010 09:00	☐
1007008-07	WSB-8 70'	Soil		6/26/2010 09:15	6/30/2010 09:00	☐
1007008-08	WSB-8 80'	Soil		6/26/2010 09:25	6/30/2010 09:00	☐
1007008-09	WSB-8 90'	Soil		6/26/2010 09:35	6/30/2010 09:00	☐
1007008-10	WSB-8 100'	Soil		6/26/2010 09:45	6/30/2010 09:00	☐
1007008-11	WSB-8 110'	Soil		6/26/2010 09:55	6/30/2010 09:00	☐
1007008-12	WSB-9 10'	Soil		6/26/2010 13:05	6/30/2010 09:00	☐
1007008-13	WSB-9 20'	Soil		6/26/2010 13:15	6/30/2010 09:00	☐
1007008-14	WSB-9 30'	Soil		6/26/2010 13:20	6/30/2010 09:00	☐
1007008-15	WSB-9 40'	Soil		6/26/2010 13:25	6/30/2010 09:00	☐
1007008-16	WSB-9 50'	Soil		6/26/2010 13:35	6/30/2010 09:00	☐
1007008-17	WSB-9 60'	Soil		6/26/2010 13:40	6/30/2010 09:00	☐
1007008-18	WSB-9 70'	Soil		6/26/2010 13:45	6/30/2010 09:00	☐
1007008-19	WSB-9 80'	Soil		6/26/2010 13:55	6/30/2010 09:00	☐
1007008-20	WSB-9 90'	Soil		6/26/2010 14:00	6/30/2010 09:00	☐
1007008-21	WSB-9 100'	Soil		6/28/2010 14:05	6/30/2010 09:00	☐
1007008-22	WSB-9 110'	Soil		6/28/2010 14:10	6/30/2010 09:00	☐
1007008-23	WSB-11 10'	Soil		6/28/2010 09:10	6/30/2010 09:00	☐
1007008-24	WSB-11 20'	Soil		6/28/2010 09:25	6/30/2010 09:00	☐
1007008-25	WSB-11 30'	Soil		6/28/2010 09:50	6/30/2010 09:00	☐
1007008-26	WSB-11 40'	Soil		6/28/2010 10:00	6/30/2010 09:00	☐
1007008-27	WSB-11 50'	Soil		6/28/2010 10:10	6/30/2010 09:00	☐
1007008-28	WSB-11 60'	Soil		6/28/2010 10:20	6/30/2010 09:00	☐
1007008-29	WSB-11 70'	Soil		6/28/2010 10:25	6/30/2010 09:00	☐
1007008-30	WSB-11 80'	Soil		6/28/2010 10:30	6/30/2010 09:00	☐
1007008-31	WSB-11 90'	Soil		6/28/2010 10:40	6/30/2010 09:00	☐
1007008-32	WSB-11 100'	Soil		6/28/2010 10:45	6/30/2010 09:00	☐
1007008-33	WSB-11 110'	Soil		6/28/2010 11:00	6/30/2010 09:00	☐
1007008-34	WSB-10 10'	Soil		6/28/2010 13:00	6/30/2010 09:00	☐
1007008-35	WSB-10 20'	Soil		6/28/2010 13:10	6/30/2010 09:00	☐
1007008-36	WSB-10 30'	Soil		6/28/2010 13:55	6/30/2010 09:00	☐
1007008-37	WSB-10 40'	Soil		6/28/2010 14:05	6/30/2010 09:00	☐
1007008-38	WSB-10 50'	Soil		6/28/2010 14:15	6/30/2010 09:00	☐
1007008-39	WSB-10 60'	Soil		6/28/2010 14:25	6/30/2010 09:00	☐

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Work Order: 1007008

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007008-40	WSB-10 70'	Soil		6/28/2010 14:35	6/30/2010 09:00	☐
1007008-41	WSB-10 80'	Soil		6/28/2010 14:40	6/30/2010 09:00	☐
1007008-42	WSB-10 90'	Soil		6/28/2010 14:50	6/30/2010 09:00	☐
1007008-43	WSB-10 100'	Soil		6/28/2010 15:00	6/30/2010 09:00	☐
1007008-44	WSB-10 110'	Soil		6/28/2010 15:05	6/30/2010 09:00	☐
1007008-45	Trip Blank 061410-36	Water		6/28/2010	6/30/2010 09:00	☐
1007008-46	Trip Blank 061410-37	Water		6/28/2010	6/30/2010 09:00	☐

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Work Order: 1007008

Case Narrative

BTEX (Sample 1007008-03) Lowest practical dilution due to matrix.

8015_GRO (Samples 1007008-03 and 04) recovery out of control limits for surrogate due to dilution.

8015 DRO/ORO (Samples 1007008-03,04,09 and 27) recovery out of control limits for surrogate due to dilution.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 10'

Lab ID: 1007008-01

Collection Date: 6/26/2010 08:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 07:06 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:06 PM
Surr: 2-Fluorobiphenyl	77.6		70-130	%REC	1	7/15/2010 07:06 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/8/2010 05:16 PM
Surr: 4-Bromofluorobenzene	115		70-130	%REC	1	7/8/2010 05:16 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 08:15 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 08:15 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 08:15 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 08:15 PM
Surr: 4-Bromofluorobenzene	90.8		75-131	%REC	1	7/1/2010 08:15 PM
Surr: Trifluorotoluene	87.7		73-130	%REC	1	7/1/2010 08:15 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	5.32		5.00	mg/Kg	1	7/10/2010 08:39 PM
Surr: Selenate (surr)	0		85-115	%REC	1	7/10/2010 08:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 20'

Lab ID: 1007008-02

Collection Date: 6/26/2010 08:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	2.2		1.7	mg/Kg	1	7/15/2010 05:20 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 05:20 AM
Surr: 2-Fluorobiphenyl	71.2		70-130	%REC	1	7/15/2010 05:20 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 06:00 PM
Surr: 4-Bromofluorobenzene	117		70-130	%REC	1	7/9/2010 06:00 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 08:57 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 08:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 08:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 08:57 AM
Surr: 4-Bromofluorobenzene	99.7		75-131	%REC	1	7/2/2010 08:57 AM
Surr: Trifluorotoluene	92.5		73-130	%REC	1	7/2/2010 08:57 AM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	35.2		5.00	mg/Kg	1	7/10/2010 10:06 PM
Surr: Selenate (surr)	0		85-115	%REC	1	7/10/2010 10:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 30'

Collection Date: 6/26/2010 08:35 AM

Work Order: 1007008

Lab ID: 1007008-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	950		170	mg/Kg	100	7/15/2010 05:39 AM
TPH (Motor Oil Range)	370		340	mg/Kg	100	7/15/2010 05:39 AM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	7/15/2010 05:39 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	43		0.25	mg/Kg	5	7/8/2010 04:02 PM
Surr: 4-Bromofluorobenzene	262	S	70-130	%REC	5	7/8/2010 04:02 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.25	mg/Kg	250	7/3/2010 02:42 PM
Toluene	ND		0.25	mg/Kg	250	7/3/2010 02:42 PM
Ethylbenzene	1.8		0.25	mg/Kg	250	7/3/2010 02:42 PM
Xylenes, Total	2.2		0.75	mg/Kg	250	7/3/2010 02:42 PM
Surr: 4-Bromofluorobenzene	96.5		75-131	%REC	250	7/3/2010 02:42 PM
Surr: Trifluorotoluene	96.4		73-130	%REC	250	7/3/2010 02:42 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	14.7		4.97	mg/Kg	1	7/10/2010 10:28 PM
Surr: Selenate (surr)	0		85-115	%REC	1	7/10/2010 10:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 40'

Lab ID: 1007008-04

Collection Date: 6/26/2010 08:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	860		170	mg/Kg	100	7/15/2010 05:58 AM
TPH (Motor Oil Range)	ND		340	mg/Kg	100	7/15/2010 05:58 AM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	7/15/2010 05:58 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	19		0.25	mg/Kg	5	7/8/2010 02:54 PM
Surr: 4-Bromofluorobenzene	165	S	70-130	%REC	5	7/8/2010 02:54 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0050	mg/Kg	5	7/2/2010 09:57 AM
Toluene	0.022		0.0050	mg/Kg	5	7/2/2010 09:57 AM
Ethylbenzene	0.95		0.25	mg/Kg	250	7/3/2010 03:19 PM
Xylenes, Total	1.2		0.75	mg/Kg	250	7/3/2010 03:19 PM
Surr: 4-Bromofluorobenzene	102		75-131	%REC	5	7/2/2010 09:57 AM
Surr: 4-Bromofluorobenzene	103		75-131	%REC	250	7/3/2010 03:19 PM
Surr: Trifluorotoluene	97.5		73-130	%REC	5	7/2/2010 09:57 AM
Surr: Trifluorotoluene	93.5		73-130	%REC	250	7/3/2010 03:19 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	62.2		4.77	mg/Kg	1	7/10/2010 11:33 PM
Surr: Selenate (surr)	90.6		85-115	%REC	1	7/10/2010 11:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: WSB-8 50'
Collection Date: 6/26/2010 08:50 AM

Work Order: 1007008
Lab ID: 1007008-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 03:00 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 03:00 PM
Surr: 2-Fluorobiphenyl	78.0		70-130	%REC	1	7/10/2010 03:00 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 01:23 PM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	7/9/2010 01:23 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 09:16 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 09:16 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 09:16 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 09:16 PM
Surr: 4-Bromofluorobenzene	86.6		75-131	%REC	1	7/1/2010 09:16 PM
Surr: Trifluorotoluene	88.2		73-130	%REC	1	7/1/2010 09:16 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	49.4		4.78	mg/Kg	1	7/10/2010 11:55 PM
Surr: Selenate (surr)	91.7		85-115	%REC	1	7/10/2010 11:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 60'

Collection Date: 6/26/2010 09:05 AM

Work Order: 1007008

Lab ID: 1007008-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	2.2		1.7	mg/Kg	1	7/15/2010 06:18 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 06:18 AM
Surr: 2-Fluorobiphenyl	89.5		70-130	%REC	1	7/15/2010 06:18 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 01:47 PM
Surr: 4-Bromofluorobenzene	114		70-130	%REC	1	7/9/2010 01:47 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 10:16 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 10:16 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 10:16 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 10:16 PM
Surr: 4-Bromofluorobenzene	90.2		75-131	%REC	1	7/1/2010 10:16 PM
Surr: Trifluorotoluene	90.0		73-130	%REC	1	7/1/2010 10:16 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	22.9		4.80	mg/Kg	1	7/11/2010 12:16 AM
Surr: Selenate (surr)	90.8		85-115	%REC	1	7/11/2010 12:16 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 70'

Lab ID: 1007008-07

Collection Date: 6/26/2010 09:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 04:17 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 04:17 PM
Surr: 2-Fluorobiphenyl	79.6		70-130	%REC	1	7/10/2010 04:17 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 02:11 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/9/2010 02:11 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 10:36 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 10:36 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 10:36 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 10:36 PM
Surr: 4-Bromofluorobenzene	93.0		75-131	%REC	1	7/1/2010 10:36 PM
Surr: Trifluorotoluene	91.3		73-130	%REC	1	7/1/2010 10:36 PM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	55.0		4.87	mg/Kg	1	7/11/2010 12:38 AM
Surr: Selenate (surr)	91.0		85-115	%REC	1	7/11/2010 12:38 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 80'

Collection Date: 6/26/2010 09:25 AM

Work Order: 1007008

Lab ID: 1007008-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 04:36 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 04:36 PM
Surr: 2-Fluorobiphenyl	76.0		70-130	%REC	1	7/10/2010 04:36 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 02:34 PM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	7/9/2010 02:34 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 10:56 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 10:56 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 10:56 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 10:56 PM
Surr: 4-Bromofluorobenzene	94.4		75-131	%REC	1	7/1/2010 10:56 PM
Surr: Trifluorotoluene	90.5		73-130	%REC	1	7/1/2010 10:56 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	69.1		4.85	mg/Kg	1	7/11/2010 01:00 AM
Surr: Selenate (surr)	91.5		85-115	%REC	1	7/11/2010 01:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 90'

Collection Date: 6/26/2010 09:35 AM

Work Order: 1007008

Lab ID: 1007008-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	350		42	mg/Kg	25	7/15/2010 06:37 AM
TPH (Motor Oil Range)	ND		85	mg/Kg	25	7/15/2010 06:37 AM
Surr: 2-Fluorobiphenyl	289	S	70-130	%REC	25	7/15/2010 06:37 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	1.1		0.050	mg/Kg	1	7/8/2010 09:22 PM
Surr: 4-Bromofluorobenzene	96.9		70-130	%REC	1	7/8/2010 09:22 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 09:37 AM
Toluene	0.0011		0.0010	mg/Kg	1	7/2/2010 09:37 AM
Ethylbenzene	0.0063		0.0010	mg/Kg	1	7/2/2010 09:37 AM
Xylenes, Total	0.014		0.0030	mg/Kg	1	7/2/2010 09:37 AM
Surr: 4-Bromofluorobenzene	110		75-131	%REC	1	7/2/2010 09:37 AM
Surr: Trifluorotoluene	82.1		73-130	%REC	1	7/2/2010 09:37 AM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	16.4		4.99	mg/Kg	1	7/11/2010 01:21 AM
Surr: Selenate (surr)	92.2		85-115	%REC	1	7/11/2010 01:21 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: WSB-8 100'
 Collection Date: 6/26/2010 09:45 AM

Work Order: 1007008
 Lab ID: 1007008-10
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	8.1		1.7	mg/Kg	1	7/15/2010 06:57 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 06:57 AM
Surr: 2-Fluorobiphenyl	82.8		70-130	%REC	1	7/15/2010 06:57 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	0.075		0.050	mg/Kg	1	7/9/2010 06:29 PM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	7/9/2010 06:29 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 11:16 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 11:16 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 11:16 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 11:16 PM
Surr: 4-Bromofluorobenzene	83.9		75-131	%REC	1	7/1/2010 11:16 PM
Surr: Trifluorotoluene	84.1		73-130	%REC	1	7/1/2010 11:16 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	10.0		4.94	mg/Kg	1	7/11/2010 01:43 AM
Surr: Selenate (surr)	91.3		85-115	%REC	1	7/11/2010 01:43 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 110'

Lab ID: 1007008-11

Collection Date: 6/26/2010 09:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 07:16 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:16 AM
Surr: 2-Fluorobiphenyl	89.0		70-130	%REC	1	7/15/2010 07:16 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 02:58 PM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	7/9/2010 02:58 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 11:36 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 11:36 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 11:36 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 11:36 PM
Surr: 4-Bromofluorobenzene	91.3		75-131	%REC	1	7/1/2010 11:36 PM
Surr: Trifluorotoluene	91.0		73-130	%REC	1	7/1/2010 11:36 PM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	33.4		4.97	mg/Kg	1	7/11/2010 02:05 AM
Surr: Selenate (surr)	90.7		85-115	%REC	1	7/11/2010 02:05 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-9 10'

Collection Date: 6/26/2010 01:05 PM

Work Order: 1007008

Lab ID: 1007008-12

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 06:13 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 06:13 PM
Surr: 2-Fluorobiphenyl	70.8		70-130	%REC	1	7/10/2010 06:13 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 03:22 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/9/2010 03:22 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/1/2010 11:56 PM
Toluene	ND		0.0010	mg/Kg	1	7/1/2010 11:56 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/1/2010 11:56 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/1/2010 11:56 PM
Surr: 4-Bromofluorobenzene	90.1		75-131	%REC	1	7/1/2010 11:56 PM
Surr: Trifluorotoluene	90.4		73-130	%REC	1	7/1/2010 11:56 PM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	ND		4.99	mg/Kg	1	7/11/2010 02:26 AM
Surr: Selenate (surr)	89.1		85-115	%REC	1	7/11/2010 02:26 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 20'

Lab ID: 1007008-13

Collection Date: 6/26/2010 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 06:33 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 06:33 PM
Surr: 2-Fluorobiphenyl	75.5		70-130	%REC	1	7/10/2010 06:33 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/8/2010 11:41 PM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	7/8/2010 11:41 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 12:56 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 12:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 12:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 12:56 AM
Surr: 4-Bromofluorobenzene	93.2		75-131	%REC	1	7/2/2010 12:56 AM
Surr: Trifluorotoluene	92.8		73-130	%REC	1	7/2/2010 12:56 AM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	71.2		4.98	mg/Kg	1	7/11/2010 02:48 AM
Surr: Selenate (surr)	91.5		85-115	%REC	1	7/11/2010 02:48 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-9 30'

Collection Date: 6/26/2010 01:20 PM

Work Order: 1007008

Lab ID: 1007008-14

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 05:15 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 05:15 PM
Surr: 2-Fluorobiphenyl	74.6		70-130	%REC	1	7/10/2010 05:15 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 12:04 AM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	7/9/2010 12:04 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 01:16 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 01:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 01:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 01:16 AM
Surr: 4-Bromofluorobenzene	90.7		75-131	%REC	1	7/2/2010 01:16 AM
Surr: Trifluorotoluene	89.6		73-130	%REC	1	7/2/2010 01:16 AM
ANIONS			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	ND		4.75	mg/Kg	1	7/11/2010 03:53 AM
Surr: Selenate (surr)	91.3		85-115	%REC	1	7/11/2010 03:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 40'

Lab ID: 1007008-15

Collection Date: 6/26/2010 01:25 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 05:35 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 05:35 PM
Surr: 2-Fluorobiphenyl	70.1		70-130	%REC	1	7/10/2010 05:35 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 12:28 AM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	7/9/2010 12:28 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 01:36 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 01:36 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 01:36 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 01:36 AM
Surr: 4-Bromofluorobenzene	92.5		75-131	%REC	1	7/2/2010 01:36 AM
Surr: Trifluorotoluene	90.1		73-130	%REC	1	7/2/2010 01:36 AM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	71.2		5.00	mg/Kg	1	7/11/2010 04:15 AM
Surr: Selenate (surr)	93.7		85-115	%REC	1	7/11/2010 04:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 50'

Lab ID: 1007008-16

Collection Date: 6/26/2010 01:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 07:35 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:35 AM
Surr: 2-Fluorobiphenyl	80.6		70-130	%REC	1	7/15/2010 07:35 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 12:51 AM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/9/2010 12:51 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 01:56 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 01:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 01:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 01:56 AM
Surr: 4-Bromofluorobenzene	98.2		75-131	%REC	1	7/2/2010 01:56 AM
Surr: Trifluorotoluene	91.0		73-130	%REC	1	7/2/2010 01:56 AM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	15.4		4.80	mg/Kg	1	7/11/2010 04:37 AM
Surr: Selenate (surr)	91.7		85-115	%REC	1	7/11/2010 04:37 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: WSB-9 60'
 Collection Date: 6/26/2010 01:40 PM

Work Order: 1007008
 Lab ID: 1007008-17
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 07:55 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:55 AM
Surr: 2-Fluorobiphenyl	85.9		70-130	%REC	1	7/15/2010 07:55 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 01:14 AM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	7/9/2010 01:14 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 02:16 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 02:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 02:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 02:16 AM
Surr: 4-Bromofluorobenzene	92.1		75-131	%REC	1	7/2/2010 02:16 AM
Surr: Trifluorotoluene	89.6		73-130	%REC	1	7/2/2010 02:16 AM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	69.1		4.94	mg/Kg	1	7/11/2010 04:58 AM
Surr: Selenate (surr)	90.3		85-115	%REC	1	7/11/2010 04:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: WSB-9 70'
Collection Date: 6/26/2010 01:45 PM

Work Order: 1007008
Lab ID: 1007008-18
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	Prep Date: 7/1/2010	Analyst: RPM
					1	7/10/2010 06:33 PM
TPH (Motor Oil Range)	3.6		3.4 mg/Kg		1	7/10/2010 06:33 PM
Surr: 2-Fluorobiphenyl	78.4		70-130 %REC		1	7/10/2010 06:33 PM
GASOLINE RANGE ORGANICS						
Gasoline Range Organics	ND		SW8015	0.050 mg/Kg	Analyst: KKP	
					1	7/9/2010 01:37 AM
Surr: 4-Bromofluorobenzene	114		70-130 %REC		1	7/9/2010 01:37 AM
BTEX						
Benzene	ND		SW8021B	0.0010 mg/Kg	Analyst: KKP	
					1	7/2/2010 02:36 AM
Toluene	ND			0.0010 mg/Kg	1	7/2/2010 02:36 AM
Ethylbenzene	ND			0.0010 mg/Kg	1	7/2/2010 02:36 AM
Xylenes, Total	ND			0.0030 mg/Kg	1	7/2/2010 02:36 AM
Surr: 4-Bromofluorobenzene	94.1		75-131 %REC		1	7/2/2010 02:36 AM
Surr: Trifluorotoluene	90.6		73-130 %REC		1	7/2/2010 02:36 AM
ANIONS						
Chloride	99.3		E300	4.79 mg/Kg	Prep Date: 7/8/2010	Analyst: JBA
					1	7/11/2010 05:20 AM
Surr: Selenate (surr)	92.4		85-115 %REC		1	7/11/2010 05:20 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
 Project: Lea Refining Soil Borings
 Sample ID: WSB-9 80'
 Collection Date: 6/26/2010 01:55 PM

Work Order: 1007008
 Lab ID: 1007008-19
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 08:14 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 08:14 AM
Surr: 2-Fluorobiphenyl	101		70-130	%REC	1	7/15/2010 08:14 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 09:32 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	7/9/2010 09:32 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/12/2010 02:56 AM
Toluene	ND		0.0010	mg/Kg	1	7/12/2010 02:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/12/2010 02:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/12/2010 02:56 AM
Surr: 4-Bromofluorobenzene	93.4		75-131	%REC	1	7/12/2010 02:56 AM
Surr: Trifluorotoluene	90.0		73-130	%REC	1	7/12/2010 02:56 AM
ANIONS						
			E300		Prep Date: 7/8/2010	Analyst: JBA
Chloride	9.84		4.85	mg/Kg	1	7/11/2010 05:42 AM
Surr: Selenate (surr)	91.2		85-115	%REC	1	7/11/2010 05:42 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: WSB-9 90'
Collection Date: 6/26/2010 02:00 PM

Work Order: 1007008
Lab ID: 1007008-20
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 08:33 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 08:33 AM
Surr: 2-Fluorobiphenyl	82.1		70-130	%REC	1	7/15/2010 08:33 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 09:55 PM
Surr: 4-Bromofluorobenzene	98.3		70-130	%REC	1	7/9/2010 09:55 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 03:16 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 03:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 03:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 03:16 AM
Surr: 4-Bromofluorobenzene	94.3		75-131	%REC	1	7/2/2010 03:16 AM
Surr: Trifluorotoluene	90.6		73-130	%REC	1	7/2/2010 03:16 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	9.56		4.97	mg/Kg	1	7/12/2010 11:50 AM
Surr: Selenate (surr)	95.9		85-115	%REC	1	7/12/2010 11:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 100'

Lab ID: 1007008-21

Collection Date: 6/28/2010 02:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 05:00 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 05:00 AM
Surr: 2-Fluorobiphenyl	77.1		70-130	%REC	1	7/15/2010 05:00 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 10:19 PM
Surr: 4-Bromofluorobenzene	96.3		70-130	%REC	1	7/9/2010 10:19 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 04:57 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 04:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 04:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 04:57 AM
Surr: 4-Bromofluorobenzene	89.4		75-131	%REC	1	7/2/2010 04:57 AM
Surr: Trifluorotoluene	89.9		73-130	%REC	1	7/2/2010 04:57 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	ND		4.95	mg/Kg	1	7/12/2010 12:04 PM
Surr: Selenate (surr)	104		85-115	%REC	1	7/12/2010 12:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 110'

Lab ID: 1007008-22

Collection Date: 6/28/2010 02:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 06:28 PM
TPH (Motor Oil Range)	7.7		3.4	mg/Kg	1	7/15/2010 06:28 PM
Surr: 2-Fluorobiphenyl	80.9		70-130	%REC	1	7/15/2010 06:28 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 10:42 PM
Surr: 4-Bromofluorobenzene	96.2		70-130	%REC	1	7/9/2010 10:42 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 05:17 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 05:17 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 05:17 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 05:17 AM
Surr: 4-Bromofluorobenzene	88.2		75-131	%REC	1	7/2/2010 05:17 AM
Surr: Trifluorotoluene	89.0		73-130	%REC	1	7/2/2010 05:17 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	29.2		4.84	mg/Kg	1	7/12/2010 12:19 PM
Surr: Selenate (surr)	104		85-115	%REC	1	7/12/2010 12:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: WSB-11 10'
Collection Date: 6/28/2010 09:10 AM

Work Order: 1007008
Lab ID: 1007008-23
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 05:20 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 05:20 AM
Surr: 2-Fluorobiphenyl	94.9		70-130	%REC	1	7/15/2010 05:20 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 11:06 PM
Surr: 4-Bromofluorobenzene	94.4		70-130	%REC	1	7/9/2010 11:06 PM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 05:36 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 05:36 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 05:36 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 05:36 AM
Surr: 4-Bromofluorobenzene	91.2		75-131	%REC	1	7/2/2010 05:36 AM
Surr: Trifluorotoluene	90.0		73-130	%REC	1	7/2/2010 05:36 AM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	20.5		4.93	mg/Kg	1	7/12/2010 12:33 PM
Surr: Selenate (surr)	94.4		85-115	%REC	1	7/12/2010 12:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 20'

Lab ID: 1007008-24

Collection Date: 6/28/2010 09:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 05:39 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 05:39 AM
Surr: 2-Fluorobiphenyl	74.5		70-130	%REC	1	7/15/2010 05:39 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/9/2010 11:30 PM
Surr: 4-Bromofluorobenzene	93.6		70-130	%REC	1	7/9/2010 11:30 PM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 05:56 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 05:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 05:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 05:56 AM
Surr: 4-Bromofluorobenzene	92.2		75-131	%REC	1	7/2/2010 05:56 AM
Surr: Trifluorotoluene	89.4		73-130	%REC	1	7/2/2010 05:56 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	12.7		4.99	mg/Kg	1	7/12/2010 02:01 PM
Surr: Selenate (surr)	100		85-115	%REC	1	7/12/2010 02:01 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 30'

Collection Date: 6/28/2010 09:50 AM

Work Order: 1007008

Lab ID: 1007008-25

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 05:58 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 05:58 AM
Surr: 2-Fluorobiphenyl	70.4		70-130	%REC	1	7/15/2010 05:58 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 12:39 AM
Surr: 4-Bromofluorobenzene	93.8		70-130	%REC	1	7/10/2010 12:39 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 06:16 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 06:16 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 06:16 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 06:16 AM
Surr: 4-Bromofluorobenzene	90.2		75-131	%REC	1	7/2/2010 06:16 AM
Surr: Trifluorotoluene	90.2		73-130	%REC	1	7/2/2010 06:16 AM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	17.2		5.00	mg/Kg	1	7/12/2010 02:15 PM
Surr: Selenate (surr)	95.5		85-115	%REC	1	7/12/2010 02:15 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 40'

Lab ID: 1007008-26

Collection Date: 6/28/2010 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 06:18 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 06:18 AM
Surr: 2-Fluorobiphenyl	81.3		70-130	%REC	1	7/15/2010 06:18 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 01:03 AM
Surr: 4-Bromofluorobenzene	93.9		70-130	%REC	1	7/10/2010 01:03 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 06:36 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 06:36 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 06:36 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 06:36 AM
Surr: 4-Bromofluorobenzene	95.1		75-131	%REC	1	7/2/2010 06:36 AM
Surr: Trifluorotoluene	92.5		73-130	%REC	1	7/2/2010 06:36 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	30.1		4.99	mg/Kg	1	7/12/2010 02:30 PM
Surr: Selenate (surr)	95.4		85-115	%REC	1	7/12/2010 02:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 50'

Collection Date: 6/28/2010 10:10 AM

Work Order: 1007008

Lab ID: 1007008-27

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 06:37 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 06:37 AM
Surr: 2-Fluorobiphenyl	63.5	S	70-130	%REC	1	7/15/2010 06:37 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 01:26 AM
Surr: 4-Bromofluorobenzene	96.6		70-130	%REC	1	7/10/2010 01:26 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 06:56 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 06:56 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 06:56 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 06:56 AM
Surr: 4-Bromofluorobenzene	97.4		75-131	%REC	1	7/2/2010 06:56 AM
Surr: Trifluorotoluene	90.7		73-130	%REC	1	7/2/2010 06:56 AM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	46.6		4.87	mg/Kg	1	7/12/2010 02:44 PM
Surr: Selenate (surr)	105		85-115	%REC	1	7/12/2010 02:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 60'

Lab ID: 1007008-28

Collection Date: 6/28/2010 10:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	6.3		1.7	mg/Kg	1	7/15/2010 06:57 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 06:57 AM
Surr: 2-Fluorobiphenyl	78.9		70-130	%REC	1	7/15/2010 06:57 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 01:49 AM
Surr: 4-Bromofluorobenzene	91.9		70-130	%REC	1	7/10/2010 01:49 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 07:57 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 07:57 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 07:57 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 07:57 AM
Surr: 4-Bromofluorobenzene	90.6		75-131	%REC	1	7/2/2010 07:57 AM
Surr: Trifluorotoluene	89.6		73-130	%REC	1	7/2/2010 07:57 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	30.7		4.97	mg/Kg	1	7/12/2010 02:59 PM
Surr: Selenate (surr)	92.4		85-115	%REC	1	7/12/2010 02:59 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 70'

Collection Date: 6/28/2010 10:25 AM

Work Order: 1007008

Lab ID: 1007008-29

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	8.7		1.7	mg/Kg	1	7/10/2010 06:52 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 06:52 PM
Surr: 2-Fluorobiphenyl	72.0		70-130	%REC	1	7/10/2010 06:52 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 02:36 AM
Surr: 4-Bromofluorobenzene	98.0		70-130	%REC	1	7/10/2010 02:36 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 08:17 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 08:17 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 08:17 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 08:17 AM
Surr: 4-Bromofluorobenzene	93.0		75-131	%REC	1	7/2/2010 08:17 AM
Surr: Trifluorotoluene	93.8		73-130	%REC	1	7/2/2010 08:17 AM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	34.6		4.95	mg/Kg	1	7/12/2010 03:13 PM
Surr: Selenate (surr)	104		85-115	%REC	1	7/12/2010 03:13 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 80'

Lab ID: 1007008-30

Collection Date: 6/28/2010 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	3.8		1.7	mg/Kg	1	7/10/2010 07:11 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 07:11 PM
Surr: 2-Fluorobiphenyl	75.0		70-130	%REC	1	7/10/2010 07:11 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 02:13 AM
Surr: 4-Bromofluorobenzene	99.2		70-130	%REC	1	7/10/2010 02:13 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 08:37 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 08:37 AM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 08:37 AM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 08:37 AM
Surr: 4-Bromofluorobenzene	94.7		75-131	%REC	1	7/2/2010 08:37 AM
Surr: Trifluorotoluene	91.7		73-130	%REC	1	7/2/2010 08:37 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	38.6		4.91	mg/Kg	1	7/12/2010 03:28 PM
Surr: Selenate (surr)	102		85-115	%REC	1	7/12/2010 03:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 90'

Lab ID: 1007008-31

Collection Date: 6/28/2010 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	15		1.7	mg/Kg	1	7/15/2010 07:16 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:16 AM
Surr: 2-Fluorobiphenyl	84.0		70-130	%REC	1	7/15/2010 07:16 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	0.68		0.050	mg/Kg	1	7/10/2010 07:38 AM
Surr: 4-Bromofluorobenzene	121		70-130	%REC	1	7/10/2010 07:38 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 09:17 AM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 09:17 AM
Ethylbenzene	0.013		0.0010	mg/Kg	1	7/2/2010 09:17 AM
Xylenes, Total	0.030		0.0030	mg/Kg	1	7/2/2010 09:17 AM
Surr: 4-Bromofluorobenzene	94.1		75-131	%REC	1	7/2/2010 09:17 AM
Surr: Trifluorotoluene	84.9		73-130	%REC	1	7/2/2010 09:17 AM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	22.0		5.00	mg/Kg	1	7/12/2010 03:42 PM
Surr: Selenate (surr)	93.1		85-115	%REC	1	7/12/2010 03:42 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 100'

Collection Date: 6/28/2010 10:45 AM

Work Order: 1007008

Lab ID: 1007008-32

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	3.8		1.7	mg/Kg	1	7/15/2010 07:35 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:35 AM
Surr: 2-Fluorobiphenyl	80.2		70-130	%REC	1	7/15/2010 07:35 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 04:56 AM
Surr: 4-Bromofluorobenzene	89.3		70-130	%REC	1	7/10/2010 04:56 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 03:17 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 03:17 PM
Ethylbenzene	0.019		0.0010	mg/Kg	1	7/2/2010 03:17 PM
Xylenes, Total	0.011		0.0030	mg/Kg	1	7/2/2010 03:17 PM
Surr: 4-Bromofluorobenzene	122		75-131	%REC	1	7/2/2010 03:17 PM
Surr: Trifluorotoluene	82.5		73-130	%REC	1	7/2/2010 03:17 PM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	16.9		5.00	mg/Kg	1	7/12/2010 03:57 PM
Surr: Selenate (surr)	105		85-115	%REC	1	7/12/2010 03:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 110'

Collection Date: 6/28/2010 11:00 AM

Work Order: 1007008

Lab ID: 1007008-33

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/10/2010 08:09 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 08:09 PM
Surr: 2-Fluorobiphenyl	70.1		70-130	%REC	1	7/10/2010 08:09 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 05:19 AM
Surr: 4-Bromofluorobenzene	93.7		70-130	%REC	1	7/10/2010 05:19 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 01:37 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 01:37 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 01:37 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 01:37 PM
Surr: 4-Bromofluorobenzene	82.4		75-131	%REC	1	7/2/2010 01:37 PM
Surr: Trifluorotoluene	80.1		73-130	%REC	1	7/2/2010 01:37 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	5.20		5.00	mg/Kg	1	7/12/2010 04:11 PM
Surr: Selenate (surr)	101		85-115	%REC	1	7/12/2010 04:11 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 10'

Lab ID: 1007008-34

Collection Date: 6/28/2010 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 07:55 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 07:55 AM
Surr: 2-Fluorobiphenyl	78.2		70-130	%REC	1	7/15/2010 07:55 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 05:42 AM
Surr: 4-Bromofluorobenzene	97.4		70-130	%REC	1	7/10/2010 05:42 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 01:57 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 01:57 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 01:57 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 01:57 PM
Surr: 4-Bromofluorobenzene	90.2		75-131	%REC	1	7/2/2010 01:57 PM
Surr: Trifluorotoluene	84.5		73-130	%REC	1	7/2/2010 01:57 PM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	20.3		4.95	mg/Kg	1	7/12/2010 04:55 PM
Surr: Selenate (surr)	99.9		85-115	%REC	1	7/12/2010 04:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 20'

Lab ID: 1007008-35

Collection Date: 6/28/2010 01:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	2.9		1.7	mg/Kg	1	7/15/2010 08:14 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 08:14 AM
Surr: 2-Fluorobiphenyl	74.9		70-130	%REC	1	7/15/2010 08:14 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 06:05 AM
Surr: 4-Bromofluorobenzene	99.7		70-130	%REC	1	7/10/2010 06:05 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 02:17 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 02:17 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 02:17 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 02:17 PM
Surr: 4-Bromofluorobenzene	90.5		75-131	%REC	1	7/2/2010 02:17 PM
Surr: Trifluorotoluene	84.9		73-130	%REC	1	7/2/2010 02:17 PM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	43.4		5.00	mg/Kg	1	7/12/2010 05:10 PM
Surr: Selenate (surr)	102		85-115	%REC	1	7/12/2010 05:10 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 30'

Collection Date: 6/28/2010 01:55 PM

Work Order: 1007008

Lab ID: 1007008-36

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 08:33 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 08:33 AM
Surr: 2-Fluorobiphenyl	78.1		70-130	%REC	1	7/15/2010 08:33 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 06:28 AM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	1	7/10/2010 06:28 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 02:37 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 02:37 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 02:37 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 02:37 PM
Surr: 4-Bromofluorobenzene	85.6		75-131	%REC	1	7/2/2010 02:37 PM
Surr: Trifluorotoluene	82.4		73-130	%REC	1	7/2/2010 02:37 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	34.0		4.92	mg/Kg	1	7/12/2010 05:24 PM
Surr: Selenate (surr)	104		85-115	%REC	1	7/12/2010 05:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 40'

Lab ID: 1007008-37

Collection Date: 6/28/2010 02:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	2.2		1.7	mg/Kg	1	7/10/2010 09:07 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/10/2010 09:07 PM
Surr: 2-Fluorobiphenyl	70.1		70-130	%REC	1	7/10/2010 09:07 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 06:52 AM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	7/10/2010 06:52 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 02:57 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 02:57 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 02:57 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 02:57 PM
Surr: 4-Bromofluorobenzene	86.1		75-131	%REC	1	7/2/2010 02:57 PM
Surr: Trifluorotoluene	84.6		73-130	%REC	1	7/2/2010 02:57 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	116		4.99	mg/Kg	1	7/12/2010 05:39 PM
Surr: Selenate (surr)	107		85-115	%REC	1	7/12/2010 05:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 50'

Collection Date: 6/28/2010 02:15 PM

Work Order: 1007008

Lab ID: 1007008-38

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	2.4		1.7	mg/Kg	1	7/15/2010 09:32 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 09:32 AM
Surr: 2-Fluorobiphenyl	77.0		70-130	%REC	1	7/15/2010 09:32 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 07:15 AM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	7/10/2010 07:15 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 06:42 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 06:42 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 06:42 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 06:42 PM
Surr: 4-Bromofluorobenzene	86.5		75-131	%REC	1	7/2/2010 06:42 PM
Surr: Trifluorotoluene	89.5		73-130	%REC	1	7/2/2010 06:42 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	47.7		4.99	mg/Kg	1	7/12/2010 05:53 PM
Surr: Selenate (surr)	100		85-115	%REC	1	7/12/2010 05:53 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 60'

Lab ID: 1007008-39

Collection Date: 6/28/2010 02:25 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 09:51 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 09:51 AM
Surr: 2-Fluorobiphenyl	76.3		70-130	%REC	1	7/15/2010 09:51 AM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 08:48 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	7/10/2010 08:48 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 05:52 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 05:52 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 05:52 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 05:52 PM
Surr: 4-Bromofluorobenzene	90.2		75-131	%REC	1	7/2/2010 05:52 PM
Surr: Trifluorotoluene	86.1		73-130	%REC	1	7/2/2010 05:52 PM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: DM
Chloride	78.1		4.97	mg/Kg	1	7/12/2010 06:08 PM
Surr: Selenate (surr)	103		85-115	%REC	1	7/12/2010 06:08 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 70'

Lab ID: 1007008-40

Collection Date: 6/28/2010 02:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 10:10 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 10:10 AM
Surr: 2-Fluorobiphenyl	87.2		70-130	%REC	1	7/15/2010 10:10 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 09:11 AM
Surr: 4-Bromofluorobenzene	99.0		70-130	%REC	1	7/10/2010 09:11 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 07:02 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 07:02 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 07:02 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 07:02 PM
Surr: 4-Bromofluorobenzene	91.0		75-131	%REC	1	7/2/2010 07:02 PM
Surr: Trifluorotoluene	89.2		73-130	%REC	1	7/2/2010 07:02 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: IGF
Chloride	58.2		5.00	mg/Kg	1	7/12/2010 08:04 PM
Surr: Selenate (surr)	98.1		85-115	%REC	1	7/12/2010 08:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company
Project: Lea Refining Soil Borings
Sample ID: WSB-10 80'
Collection Date: 6/28/2010 02:40 PM

Work Order: 1007008
Lab ID: 1007008-41
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO						
			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/9/2010 06:43 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/9/2010 06:43 PM
Surr: 2-Fluorobiphenyl	86.5		70-130	%REC	1	7/9/2010 06:43 PM
GASOLINE RANGE ORGANICS						
			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 09:34 AM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	7/10/2010 09:34 AM
BTEX						
			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 07:22 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 07:22 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 07:22 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 07:22 PM
Surr: 4-Bromofluorobenzene	89.7		75-131	%REC	1	7/2/2010 07:22 PM
Surr: Trifluorotoluene	89.3		73-130	%REC	1	7/2/2010 07:22 PM
ANIONS						
			E300		Prep Date: 7/9/2010	Analyst: IGF
Chloride	61.0		4.99	mg/Kg	1	7/12/2010 08:19 PM
Surr: Selenate (surr)	104		85-115	%REC	1	7/12/2010 08:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 90'

Collection Date: 6/28/2010 02:50 PM

Work Order: 1007008

Lab ID: 1007008-42

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 09:32 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 09:32 AM
Surr: 2-Fluorobiphenyl	78.5		70-130	%REC	1	7/15/2010 09:32 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 09:57 AM
Surr: 4-Bromofluorobenzene	99.3		70-130	%REC	1	7/10/2010 09:57 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 08:38 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 08:38 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 08:38 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 08:38 PM
Surr: 4-Bromofluorobenzene	89.1		75-131	%REC	1	7/2/2010 08:38 PM
Surr: Trifluorotoluene	88.2		73-130	%REC	1	7/2/2010 08:38 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: IGF
Chloride	57.5		4.99	mg/Kg	1	7/12/2010 09:17 PM
Surr: Selenate (surr)	102		85-115	%REC	1	7/12/2010 09:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 100'

Collection Date: 6/28/2010 03:00 PM

Work Order: 1007008

Lab ID: 1007008-43

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/15/2010 09:51 AM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/15/2010 09:51 AM
Surr: 2-Fluorobiphenyl	95.7		70-130	%REC	1	7/15/2010 09:51 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 10:21 AM
Surr: 4-Bromofluorobenzene	92.2		70-130	%REC	1	7/10/2010 10:21 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 08:58 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 08:58 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 08:58 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 08:58 PM
Surr: 4-Bromofluorobenzene	87.4		75-131	%REC	1	7/2/2010 08:58 PM
Surr: Trifluorotoluene	85.5		73-130	%REC	1	7/2/2010 08:58 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: IGF
Chloride	77.4		4.99	mg/Kg	1	7/12/2010 09:31 PM
Surr: Selenate (surr)	100		85-115	%REC	1	7/12/2010 09:31 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 110'

Collection Date: 6/28/2010 03:05 PM

Work Order: 1007008

Lab ID: 1007008-44

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015M		Prep Date: 7/1/2010	Analyst: RPM
TPH (Diesel Range)	ND		1.7	mg/Kg	1	7/9/2010 08:58 PM
TPH (Motor Oil Range)	ND		3.4	mg/Kg	1	7/9/2010 08:58 PM
Surr: 2-Fluorobiphenyl	76.7		70-130	%REC	1	7/9/2010 08:58 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: KKP
Gasoline Range Organics	ND		0.050	mg/Kg	1	7/10/2010 10:44 AM
Surr: 4-Bromofluorobenzene	92.7		70-130	%REC	1	7/10/2010 10:44 AM
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/Kg	1	7/2/2010 09:18 PM
Toluene	ND		0.0010	mg/Kg	1	7/2/2010 09:18 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	7/2/2010 09:18 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	7/2/2010 09:18 PM
Surr: 4-Bromofluorobenzene	84.5		75-131	%REC	1	7/2/2010 09:18 PM
Surr: Trifluorotoluene	83.4		73-130	%REC	1	7/2/2010 09:18 PM
ANIONS			E300		Prep Date: 7/9/2010	Analyst: IGF
Chloride	ND		5.00	mg/Kg	1	7/12/2010 09:46 PM
Surr: Selenate (surr)	103		85-115	%REC	1	7/12/2010 09:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: Trip Blank 061410-36

Lab ID: 1007008-45

Collection Date: 6/28/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	7/3/2010 03:38 PM
Toluene	ND		0.0010	mg/L	1	7/3/2010 03:38 PM
Ethylbenzene	ND		0.0010	mg/L	1	7/3/2010 03:38 PM
Xylenes, Total	ND		0.0030	mg/L	1	7/3/2010 03:38 PM
Surr: 4-Bromofluorobenzene	95.1		77-129	%REC	1	7/3/2010 03:38 PM
Surr: Trifluorotoluene	93.0		75-130	%REC	1	7/3/2010 03:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: Trip Blank 061410-37

Lab ID: 1007008-46

Collection Date: 6/28/2010

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: KKP
Benzene	ND		0.0010	mg/L	1	7/2/2010 10:54 PM
Toluene	ND		0.0010	mg/L	1	7/2/2010 10:54 PM
Ethylbenzene	ND		0.0010	mg/L	1	7/2/2010 10:54 PM
Xylenes, Total	ND		0.0030	mg/L	1	7/2/2010 10:54 PM
Surr: 4-Bromofluorobenzene	92.0		77-129	%REC	1	7/2/2010 10:54 PM
Surr: Trifluorotoluene	90.0		75-130	%REC	1	7/2/2010 10:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Work Order: 1007008

Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44191 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS2-100701-44191 Units: mg/Kg Analysis Date: 7/9/2010 11:52 PM

Client ID: Run ID: FID-7_100701B SeqNo: 2028525 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.839	0.10	3.33	0	85.2	70-130	0			

LCS Sample ID: FLCSS2-100701-44191 Units: mg/Kg Analysis Date: 7/10/2010 01:42 PM

Client ID: Run ID: FID-7_100701B SeqNo: 2028526 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	30	1.7	33.33	0	90	70-130	0			
TPH (Motor Oil Range)	27.35	3.4	33.33	0	82.1	70-130	0			
Surr: 2-Fluorobiphenyl	3.165	0.10	3.33	0	95.1	70-130	0			

MS Sample ID: 1007008-01BMS Units: mg/Kg Analysis Date: 7/10/2010 02:21 PM

Client ID: WSB-8 10' Run ID: FID-7_100701B SeqNo: 2028527 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.72	1.7	33.32	0.6646	78.2	70-130	0			
TPH (Motor Oil Range)	28.79	3.4	33.32	0	86.4	70-130	0			
Surr: 2-Fluorobiphenyl	3.177	0.10	3.329	0	95.4	70-130	0			

MSD Sample ID: 1007008-01BMSD Units: mg/Kg Analysis Date: 7/10/2010 02:40 PM

Client ID: WSB-8 10' Run ID: FID-7_100701B SeqNo: 2028528 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.6	1.7	33.3	0.6646	80.9	70-130	26.72	3.24	30	
TPH (Motor Oil Range)	30.44	3.4	33.3	0	91.4	70-130	28.79	5.58	30	
Surr: 2-Fluorobiphenyl	2.845	0.10	3.327	0	85.5	70-130	3.177	11	30	

The following samples were analyzed in this batch:

1007008-01B	1007008-02B	1007008-03B
1007008-04B	1007008-05B	1007008-06B
1007008-07B	1007008-08B	1007008-09B
1007008-10B	1007008-11B	1007008-12B
1007008-13B	1007008-14B	1007008-15B
1007008-16B	1007008-17B	1007008-18B
1007008-19B	1007008-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44200 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100701-44200 Units: mg/Kg Analysis Date: 7/10/2010 08:29 PM

Client ID: Run ID: FID-7_100701C SeqNo: 2028553 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.396	0.10	3.33	0	72	70-130	0			

LCS Sample ID: FLCSS3-100701-44200 Units: mg/Kg Analysis Date: 7/10/2010 08:48 PM

Client ID: Run ID: FID-7_100701C SeqNo: 2028554 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.43	1.7	33.33	0	82.3	70-130	0			
TPH (Motor Oil Range)	29.94	3.4	33.33	0	89.8	70-130	0			
Surr: 2-Fluorobiphenyl	3.033	0.10	3.33	0	91.1	70-130	0			

MS Sample ID: 1007008-21BMS Units: mg/Kg Analysis Date: 7/10/2010 09:27 PM

Client ID: WSB-9 100' Run ID: FID-7_100701C SeqNo: 2028555 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.9	1.7	33.25	0.04326	80.8	70-130	0			
TPH (Motor Oil Range)	31.36	3.4	33.25	0.3749	93.2	70-130	0			
Surr: 2-Fluorobiphenyl	2.503	0.10	3.322	0	75.3	70-130	0			

MSD Sample ID: 1007008-21BMSD Units: mg/Kg Analysis Date: 7/10/2010 09:46 PM

Client ID: WSB-9 100' Run ID: FID-7_100701C SeqNo: 2028556 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	27.46	1.7	33.32	0.04326	82.3	70-130	26.9	2.08	30	
TPH (Motor Oil Range)	34.15	3.4	33.32	0.3749	101	70-130	31.36	8.5	30	
Surr: 2-Fluorobiphenyl	2.644	0.10	3.329	0	79.4	70-130	2.503	5.47	30	

The following samples were analyzed in this batch:

1007008-21B	1007008-22B	1007008-23B
1007008-24B	1007008-25B	1007008-26B
1007008-27B	1007008-28B	1007008-29B
1007008-30B	1007008-31B	1007008-32B
1007008-33B	1007008-34B	1007008-35B
1007008-36B	1007008-37B	1007008-38B
1007008-39B	1007008-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44205 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS4-100701-44205 Units: mg/Kg Analysis Date: 7/9/2010 06:04 PM
Client ID: Run ID: FID-7_100701D SeqNo: 2028591 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
TPH (Motor Oil Range)	ND	3.4								
Surr: 2-Fluorobiphenyl	2.803	0.10	3.33	0	84.2	70-130	0			

LCS Sample ID: FLCSS4-100701-44205 Units: mg/Kg Analysis Date: 7/9/2010 06:24 PM
Client ID: Run ID: FID-7_100701D SeqNo: 2028592 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.83	1.7	33.33	0	80.5	70-130	0			
TPH (Motor Oil Range)	29.99	3.4	33.33	0	90	70-130	0			
Surr: 2-Fluorobiphenyl	3.813	0.10	3.33	0	114	70-130	0			

MS Sample ID: 1007008-41BMS Units: mg/Kg Analysis Date: 7/9/2010 07:02 PM
Client ID: WSB-10 80' Run ID: FID-7_100701D SeqNo: 2028594 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	23.61	1.7	33.24	0.08525	70.8	70-130	0			
TPH (Motor Oil Range)	28.51	3.4	33.24	0.5513	84.1	70-130	0			
Surr: 2-Fluorobiphenyl	2.806	0.10	3.321	0	84.5	70-130	0			

MSD Sample ID: 1007008-41BMSD Units: mg/Kg Analysis Date: 7/9/2010 07:22 PM
Client ID: WSB-10 80' Run ID: FID-7_100701D SeqNo: 2028595 Prep Date: 7/1/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	24.08	1.7	33.32	0.08525	72	70-130	23.61	1.97	30	
TPH (Motor Oil Range)	26.09	3.4	33.32	0.5513	76.7	70-130	28.51	8.87	30	
Surr: 2-Fluorobiphenyl	2.612	0.10	3.329	0	78.5	70-130	2.806	7.17	30	

The following samples were analyzed in this batch:

1007008-41B	1007008-42B	1007008-43B
1007008-44B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R93623 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW1-070210-R93623 Units: µg/L Analysis Date: 7/2/2010 06:36 PM

Client ID: Run ID: BTEX1_100702B SeqNo: 2018114 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	28.25	1.0	30	0	94.2	77-129	0			
Surr: Trifluorotoluene	26.73	1.0	30	0	89.1	75-130	0			

MBLK Sample ID: BBLKW1-070210-R93623 Units: µg/L Analysis Date: 7/2/2010 06:55 PM

Client ID: Run ID: BTEX1_100702B SeqNo: 2018115 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.09	1.0	30	0	90.3	77-129	0			
Surr: Trifluorotoluene	26.46	1.0	30	0	88.2	75-130	0			

LCS Sample ID: BLCSW1-070210-R93623 Units: µg/L Analysis Date: 7/2/2010 06:18 PM

Client ID: Run ID: BTEX1_100702B SeqNo: 2018113 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.32	1.0	20	0	96.6	77-126	0			
Toluene	19.42	1.0	20	0	97.1	80-124	0			
Ethylbenzene	19.51	1.0	20	0	97.6	76-125	0			
Xylenes, Total	57.36	3.0	60	0	95.6	79-124	0			
Surr: 4-Bromofluorobenzene	28.65	1.0	30	0	95.5	77-129	0			
Surr: Trifluorotoluene	28.67	1.0	30	0	95.6	75-130	0			

MS Sample ID: 1006974-04AMS Units: µg/L Analysis Date: 7/2/2010 09:08 PM

Client ID: Run ID: BTEX1_100702B SeqNo: 2018122 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.29	1.0	20	0	81.4	77-126	0			
Toluene	18.42	1.0	20	0	92.1	80-124	0			
Ethylbenzene	19.64	1.0	20	0	98.2	76-125	0			
Xylenes, Total	59.4	3.0	60	0	99	79-124	0			
Surr: 4-Bromofluorobenzene	28.17	1.0	30	0	93.9	77-129	0			
Surr: Trifluorotoluene	24.24	1.0	30	0	80.8	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1007008

Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R93623

Instrument ID BTEX1

Method: SW8021B

MSD Sample ID: 1006974-04AMSD

Units: µg/L

Analysis Date: 7/2/2010 09:46 PM

Client ID:

Run ID: BTEX1_100702B

SeqNo: 2018123

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	15.47	1.0	20	0	77.4	77-126	16.29	5.13	20	
Toluene	17.57	1.0	20	0	87.8	80-124	18.42	4.74	20	
Ethylbenzene	18.37	1.0	20	0	91.9	76-125	19.64	6.67	20	
Xylenes, Total	55.78	3.0	60	0	93	79-124	59.4	6.29	20	
Surr: 4-Bromofluorobenzene	28.19	1.0	30	0	94	77-129	28.17	0.0729	20	
Surr: Trifluorotoluene	25	1.0	30	0	83.3	75-130	24.24	3.09	20	

The following samples were analyzed in this batch:

1007008-03A	1007008-04A	1007008-45A
1007008-46A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93633** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKS1-070110-R93633** Units: **µg/Kg** Analysis Date: **7/1/2010 01:35 PM**

Client ID: Run ID: **BTEX3_100701A** SeqNo: **2018293** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	25.76	1.0	30	0	85.9	75-131	0			
Surr: Trifluorotoluene	27.18	1.0	30	0	90.6	73-130	0			

LCS Sample ID: **BLCSS1-070110-R93633** Units: **µg/Kg** Analysis Date: **7/1/2010 12:59 PM**

Client ID: Run ID: **BTEX3_100701A** SeqNo: **2018292** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.15	1.0	20	0	111	74-129	0			
Toluene	21.12	1.0	20	0	106	75-128	0			
Ethylbenzene	19.16	1.0	20	0	95.8	73-127	0			
Xylenes, Total	62.16	3.0	60	0	104	74-127	0			
Surr: 4-Bromofluorobenzene	28.66	1.0	30	0	95.5	75-131	0			
Surr: Trifluorotoluene	29.13	1.0	30	0	97.1	73-130	0			

MS Sample ID: **1007008-01AMS** Units: **µg/Kg** Analysis Date: **7/1/2010 09:36 PM**

Client ID: **WSB-8 10'** Run ID: **BTEX3_100701A** SeqNo: **2018301** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.72	1.0	20	0	104	74-129	0			
Toluene	20.68	1.0	20	0	103	75-128	0			
Ethylbenzene	20.78	1.0	20	0	104	73-127	0			
Xylenes, Total	62.96	3.0	60	0	105	74-127	0			
Surr: 4-Bromofluorobenzene	28.74	1.0	30	0	95.8	75-131	0			
Surr: Trifluorotoluene	27.36	1.0	30	0	91.2	73-130	0			

MSD Sample ID: **1007008-01AMSD** Units: **µg/Kg** Analysis Date: **7/1/2010 09:56 PM**

Client ID: **WSB-8 10'** Run ID: **BTEX3_100701A** SeqNo: **2018302** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.13	1.0	20	0	106	74-129	20.72	1.93	30	
Toluene	20.93	1.0	20	0	105	75-128	20.68	1.19	30	
Ethylbenzene	20.85	1.0	20	0	104	73-127	20.78	0.336	30	
Xylenes, Total	63.49	3.0	60	0	106	74-127	62.96	0.846	30	
Surr: 4-Bromofluorobenzene	28.69	1.0	30	0	95.6	75-131	28.74	0.165	30	
Surr: Trifluorotoluene	27.5	1.0	30	0	91.7	73-130	27.36	0.524	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93633**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1007008-01A	1007008-05A	1007008-06A
1007008-07A	1007008-08A	1007008-10A
1007008-11A	1007008-12A	1007008-13A
1007008-14A	1007008-15A	1007008-16A
1007008-17A	1007008-18A	1007008-19A
1007008-20A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R93638 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-070210-R93638 Units: µg/Kg Analysis Date: 7/2/2010 05:18 PM

Client ID: Run ID: BTEX3_100702A SeqNo: 2018407 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.54	1.0	30	0	81.8	75-131	0			
Surr: Trifluorotoluene	24.56	1.0	30	0	81.9	73-130	0			

LCS Sample ID: BLCSS1-070210-R93638 Units: µg/Kg Analysis Date: 7/2/2010 04:27 PM

Client ID: Run ID: BTEX3_100702A SeqNo: 2018406 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.9	1.0	20	0	99.5	74-129	0			
Toluene	19.89	1.0	20	0	99.4	75-128	0			
Ethylbenzene	19.93	1.0	20	0	99.7	73-127	0			
Xylenes, Total	60.36	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	27.51	1.0	30	0	91.7	75-131	0			
Surr: Trifluorotoluene	26.09	1.0	30	0	87	73-130	0			

MS Sample ID: 1007063-01AMS Units: µg/Kg Analysis Date: 7/2/2010 10:58 PM

Client ID: Run ID: BTEX3_100702A SeqNo: 2018420 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.53	1.0	20	0	103	74-129	0			
Toluene	20.21	1.0	20	0	101	75-128	0			
Ethylbenzene	19.89	1.0	20	0	99.4	73-127	0			
Xylenes, Total	60.48	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	28.61	1.0	30	0	95.4	75-131	0			
Surr: Trifluorotoluene	27.25	1.0	30	0	90.8	73-130	0			

MSD Sample ID: 1007063-01AMSD Units: µg/Kg Analysis Date: 7/2/2010 11:18 PM

Client ID: Run ID: BTEX3_100702A SeqNo: 2018422 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.78	1.0	20	0	104	74-129	20.53	1.18	30	
Toluene	20.85	1.0	20	0	104	75-128	20.21	3.09	30	
Ethylbenzene	20.57	1.0	20	0	103	73-127	19.89	3.35	30	
Xylenes, Total	62.78	3.0	60	0	105	74-127	60.48	3.73	30	
Surr: 4-Bromofluorobenzene	28.51	1.0	30	0	95	75-131	28.61	0.333	30	
Surr: Trifluorotoluene	27.63	1.0	30	0	92.1	73-130	27.25	1.39	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93638**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1007008-38A	1007008-39A	1007008-40A
1007008-41A	1007008-42A	1007008-43A
1007008-44A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93648** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKS1-070210-R93648** Units: **µg/Kg** Analysis Date: **7/2/2010 04:37 AM**

Client ID: Run ID: **BTEX3_100701B** SeqNo: **2018549** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	27.01	1.0	30	0	90	75-131	0			
Surr: Trifluorotoluene	27.08	1.0	30	0	90.3	73-130	0			

LCS Sample ID: **BLCSS1-070210-R93648** Units: **µg/Kg** Analysis Date: **7/2/2010 03:56 AM**

Client ID: Run ID: **BTEX3_100701B** SeqNo: **2018548** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.2	1.0	20	0	106	74-129	0			
Toluene	20.83	1.0	20	0	104	75-128	0			
Ethylbenzene	20.12	1.0	20	0	101	73-127	0			
Xylenes, Total	61.76	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	28.6	1.0	30	0	95.3	75-131	0			
Surr: Trifluorotoluene	28.66	1.0	30	0	95.5	73-130	0			

MS Sample ID: **1007008-26AMS** Units: **µg/Kg** Analysis Date: **7/2/2010 12:10 PM**

Client ID: **WSB-11 40'** Run ID: **BTEX3_100701B** SeqNo: **2018567** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.09	1.0	20	0	100	74-129	0			
Toluene	19.58	1.0	20	0	97.9	75-128	0			
Ethylbenzene	19.46	1.0	20	0	97.3	73-127	0			
Xylenes, Total	58.79	3.0	60	0	98	74-127	0			
Surr: 4-Bromofluorobenzene	26.17	1.0	30	0	87.2	75-131	0			
Surr: Trifluorotoluene	25.41	1.0	30	0	84.7	73-130	0			

MSD Sample ID: **1007008-26AMSD** Units: **µg/Kg** Analysis Date: **7/2/2010 12:30 PM**

Client ID: **WSB-11 40'** Run ID: **BTEX3_100701B** SeqNo: **2018568** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.62	1.0	20	0	93.1	74-129	20.09	7.62	30	
Toluene	19	1.0	20	0	95	75-128	19.58	3	30	
Ethylbenzene	19.54	1.0	20	0	97.7	73-127	19.46	0.416	30	
Xylenes, Total	59.09	3.0	60	0	98.5	74-127	58.79	0.523	30	
Surr: 4-Bromofluorobenzene	26.41	1.0	30	0	88	75-131	26.17	0.919	30	
Surr: Trifluorotoluene	24.85	1.0	30	0	82.8	73-130	25.41	2.22	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93648**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

1007008-02A	1007008-04A	1007008-09A
1007008-21A	1007008-22A	1007008-23A
1007008-24A	1007008-25A	1007008-26A
1007008-27A	1007008-28A	1007008-29A
1007008-30A	1007008-31A	1007008-32A
1007008-33A	1007008-34A	1007008-35A
1007008-36A	1007008-37A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93862** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-070810-R93862** Units: **mg/Kg** Analysis Date: **7/8/2010 01:01 PM**

Client ID: Run ID: **FID-9_100708A** SeqNo: **2023144** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.1004	0.0050	0.1	0	100	70-130	0			

LCS Sample ID: **GLCSS-070810-R93862** Units: **mg/Kg** Analysis Date: **7/8/2010 12:13 PM**

Client ID: Run ID: **FID-9_100708A** SeqNo: **2023143** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.157	0.050	1	0	116	70-130	0			
Surr: 4-Bromofluorobenzene	0.1092	0.0050	0.1	0	109	70-130	0			

MS Sample ID: **1007008-01BMS** Units: **mg/Kg** Analysis Date: **7/8/2010 06:03 PM**

Client ID: **WSB-8 10'** Run ID: **FID-9_100708A** SeqNo: **2023148** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.205	0.050	1	0	121	70-130	0			
Surr: 4-Bromofluorobenzene	0.107	0.0050	0.1	0	107	70-130	0			

MSD Sample ID: **1007008-01BMSD** Units: **mg/Kg** Analysis Date: **7/8/2010 06:27 PM**

Client ID: **WSB-8 10'** Run ID: **FID-9_100708A** SeqNo: **2023149** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.235	0.050	1	0	124	70-130	1.205	2.47	30	
Surr: 4-Bromofluorobenzene	0.1135	0.0050	0.1	0	113	70-130	0.107	5.86	30	

The following samples were analyzed in this batch:

1007008-01B	1007008-03B	1007008-04B
1007008-09B	1007008-13B	1007008-14B
1007008-15B	1007008-16B	1007008-17B
1007008-18B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1007008

Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: R93863

Instrument ID FID-9

Method: SW8015

MBLK Sample ID: GBLKS-070910-R93863

Units: mg/Kg

Analysis Date: 7/9/2010 01:00 PM

Client ID:

Run ID: FID-9_100709A

SeqNo: 2023158

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.114	0.0050	0.1	0	114	70-130	0			

LCS Sample ID: GLCSS-070910-R93863

Units: mg/Kg

Analysis Date: 7/9/2010 12:07 PM

Client ID:

Run ID: FID-9_100709A

SeqNo: 2023157

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.21	0.050	1	0	121	70-130	0			
Surr: 4-Bromofluorobenzene	0.1159	0.0050	0.1	0	116	70-130	0			

MS Sample ID: 1007008-12BMS

Units: mg/Kg

Analysis Date: 7/9/2010 03:45 PM

Client ID: WSB-9 10'

Run ID: FID-9_100709A

SeqNo: 2023165

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.223	0.050	1	0	122	70-130	0			
Surr: 4-Bromofluorobenzene	0.1187	0.0050	0.1	0	119	70-130	0			

MSD Sample ID: 1007008-12BMSD

Units: mg/Kg

Analysis Date: 7/9/2010 04:09 PM

Client ID: WSB-9 10'

Run ID: FID-9_100709A

SeqNo: 2023166

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.236	0.050	1	0	124	70-130	1.223	1.03	30	
Surr: 4-Bromofluorobenzene	0.1176	0.0050	0.1	0	118	70-130	0.1187	0.961	30	

The following samples were analyzed in this batch:

1007008-02B	1007008-05B	1007008-06B
1007008-07B	1007008-08B	1007008-10B
1007008-11B	1007008-12B	1007008-19B
1007008-20B	1007008-21B	1007008-22B
1007008-23B	1007008-24B	1007008-25B
1007008-26B	1007008-27B	1007008-28B
1007008-29B	1007008-30B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: **R93864** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-071010-R93864** Units: **mg/Kg** Analysis Date: **7/10/2010 04:32 AM**

Client ID: Run ID: **FID-9_100709B** SeqNo: **2023182** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09163	0.0050	0.1	0	91.6	70-130	0			

LCS Sample ID: **GLCSS-071010-R93864** Units: **mg/Kg** Analysis Date: **7/10/2010 04:09 AM**

Client ID: Run ID: **FID-9_100709B** SeqNo: **2023181** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.14	0.050	1	0	114	70-130	0			
Surr: 4-Bromofluorobenzene	0.1021	0.0050	0.1	0	102	70-130	0			

MS Sample ID: **1007008-44BMS** Units: **mg/Kg** Analysis Date: **7/10/2010 11:07 AM**

Client ID: **WSB-10 110'** Run ID: **FID-9_100709B** SeqNo: **2023197** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.22	0.050	1	0	122	70-130	0			
Surr: 4-Bromofluorobenzene	0.09808	0.0050	0.1	0	98.1	70-130	0			

MSD Sample ID: **1007008-44BMSD** Units: **mg/Kg** Analysis Date: **7/10/2010 11:31 AM**

Client ID: **WSB-10 110'** Run ID: **FID-9_100709B** SeqNo: **2023198** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.238	0.050	1	0	124	70-130	1.22	1.43	30	
Surr: 4-Bromofluorobenzene	0.09694	0.0050	0.1	0	96.9	70-130	0.09808	1.16	30	

The following samples were analyzed in this batch:

1007008-31B	1007008-32B	1007008-33B
1007008-34B	1007008-35B	1007008-36B
1007008-37B	1007008-38B	1007008-39B
1007008-40B	1007008-41B	1007008-42B
1007008-43B	1007008-44B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44421 Instrument ID ICS2100 Method: E300

LCS	Sample ID: WLCSS1-070910-44421				Units: mg/Kg		Analysis Date: 7/12/2010 11:35 AM			
Client ID:	Run ID: ICS2100_100712A				SeqNo: 2025168		Prep Date: 7/9/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	192.2	5.0	200	0	96.1	90-110	0			
Surr: Selenate (surr)	47.33	1.0	50	0	94.7	85-115	0			

MS				Sample ID: 1007008-23BMS			Units: mg/Kg		Analysis Date: 7/12/2010 01:02 PM		
Client ID: WSB-11 10'				Run ID: ICS2100_100712A			SeqNo: 2025187		Prep Date: 7/9/2010		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		124.5	4.9	98.62	20.54	105	75-125	0			
Surr: Selenate (surr)		50.81	0.99	49.31	0	103	80-120	0			

MS	Sample ID: 1007008-39BMS				Units: mg/Kg		Analysis Date: 7/12/2010 06:37 PM				
Client ID: WSB-10 60'			Run ID: ICS2100_100712A			SeqNo: 2025212		Prep Date: 7/9/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	183.1	5.0	99.4	78.07	106	75-125	0				
Surr: Selenate (surr)	52.36	0.99	49.7	0	105	80-120	0				

MSD	Sample ID: 1007008-23BMSD					Units: mg/Kg		Analysis Date: 7/12/2010 01:17 PM		
Client ID: WSB-11 10'			Run ID: ICS2100_100712A			SeqNo: 2025188		Prep Date: 7/9/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	121.6	4.9	98.62	20.54	102	75-125	124.5	2.37	20	
Surr: Selenate (surr)	49.38	0.99	49.31	0	100	80-120	50.81	2.85	20	

MSD	Sample ID: 1007008-39BMSD					Units: mg/Kg		Analysis Date: 7/12/2010 06:51 PM		
Client ID: WSB-10 60'			Run ID: ICS2100_100712A			SeqNo: 2025213		Prep Date: 7/9/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	177.4	5.0	99.4	78.07	99.9	75-125	183.1	3.17	20	
Surr: Selenate (surr)	50.89	0.99	49.7	0	102	80-120	52.36	2.83	20	

DUP	Sample ID: 1007008-23BDUP					Units: mg/Kg		Analysis Date: 7/12/2010 12:48 PM		
Client ID: WSB-11 10'			Run ID: ICS2100_100712A			SeqNo: 2025185		Prep Date: 7/9/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.91	4.9	0	0	0	0-0	20.54	1.76	20	
Surr: Selenate (surr)	48.6	0.99	49.31	0	98.6	85-115	46.57	4.27	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44421 Instrument ID ICS2100 Method: E300

DUP Sample ID: 1007008-39BDUP Units: mg/Kg Analysis Date: 7/12/2010 06:22 PM

Client ID: WSB-10 60' Run ID: ICS2100_100712A SeqNo: 2025211 Prep Date: 7/9/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	76.24	5.0	0	0	0	0-0	78.07	2.37	20	
Surr: Selenate (surr)	49.48	0.99	49.7	0	99.6	85-115	51	3.03	20	

The following samples were analyzed in this batch:

1007008-20B	1007008-21B	1007008-22B
1007008-23B	1007008-24B	1007008-25B
1007008-26B	1007008-27B	1007008-28B
1007008-29B	1007008-30B	1007008-31B
1007008-32B	1007008-33B	1007008-34B
1007008-35B	1007008-36B	1007008-37B
1007008-38B	1007008-39B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44423 Instrument ID ICS2100 Method: E300

MS Sample ID: 1007008-41BMS Units: mg/Kg Analysis Date: 7/12/2010 08:48 PM
Client ID: WSB-10 80' Run ID: ICS2100_100712C SeqNo: 2025417 Prep Date: 7/9/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	154.6	5.0	99.8	60.99	93.8	75-125	0			
Surr: Selenate (surr)	49.24	1.0	49.9	0	98.7	80-120	0			

MSD Sample ID: 1007008-41BMSD Units: mg/Kg Analysis Date: 7/12/2010 09:02 PM
Client ID: WSB-10 80' Run ID: ICS2100_100712C SeqNo: 2025418 Prep Date: 7/9/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	160.2	5.0	99.8	60.99	99.4	75-125	154.6	3.56	20	
Surr: Selenate (surr)	51.29	1.0	49.9	0	103	80-120	49.24	4.07	20	

DUP Sample ID: 1007008-41BDUP Units: mg/Kg Analysis Date: 7/12/2010 08:33 PM
Client ID: WSB-10 80' Run ID: ICS2100_100712C SeqNo: 2025416 Prep Date: 7/9/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	56.83	5.0	0	0	0	0-0	60.99	7.06	20	
Surr: Selenate (surr)	48.26	1.0	49.9	0	96.7	85-115	51.91	7.27	20	

The following samples were analyzed in this batch:

1007008-40B	1007008-41B	1007008-42B
1007008-43B	1007008-44B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007008
 Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44445 Instrument ID ICS3K2 Method: E300

MBLK		Sample ID: WBLKS3-070810-44445				Units: mg/Kg		Analysis Date: 7/10/2010 01:45 PM		
Client ID:		Run ID: ICS3K2_100709D				SeqNo: 2024808		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2.78	5.0	0	0	0	0-0	0			J
Surr: Selenate (surr)	45.9	1.0	50	0	91.8	85-115	0			

LCS		Sample ID: WLCSS3-070810-44445				Units: mg/Kg		Analysis Date: 7/10/2010 02:28 PM		
Client ID:		Run ID: ICS3K2_100709D				SeqNo: 2024810		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	184.6	5.0	200	0	92.3	90-110	0			
Surr: Selenate (surr)	44.84	1.0	50	0	89.7	85-115	0			

LCSD		Sample ID: WLCSDS3-070810-44445				Units: mg/Kg		Analysis Date: 7/10/2010 02:50 PM		
Client ID:		Run ID: ICS3K2_100709D				SeqNo: 2024811		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	184.4	5.0	200	0	92.2	90-110	184.6	0.125	20	

MS		Sample ID: 1007008-01BMS				Units: mg/Kg		Analysis Date: 7/10/2010 09:23 PM		
Client ID: WSB-8 10'		Run ID: ICS3K2_100709D				SeqNo: 2024815		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	190.3	10	199.9	5.317	92.6	75-125	0			

MS		Sample ID: 1007008-19BMS				Units: mg/Kg		Analysis Date: 7/12/2010 09:53 AM		
Client ID: WSB-9 80'		Run ID: ICS3K2_100709D				SeqNo: 2025953		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.61	4.8	97.09	9.845	92.5	75-125	0			
Surr: Selenate (surr)	44.04	0.97	48.54	0	90.7	80-120	0			

MSD		Sample ID: 1007008-01BMSD				Units: mg/Kg		Analysis Date: 7/10/2010 09:44 PM		
Client ID: WSB-8 10'		Run ID: ICS3K2_100709D				SeqNo: 2024816		Prep Date: 7/8/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189.1	10	199.9	5.317	91.9	75-125	190.3	0.664	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007008
Project: Lea Refining Soil Borings

QC BATCH REPORT

Batch ID: 44445 Instrument ID ICS3K2 Method: E300

MSD Sample ID: 1007008-19BMSD Units: mg/Kg Analysis Date: 7/12/2010 10:15 AM
Client ID: WSB-9 80' Run ID: ICS3K2_100709D SeqNo: 2025954 Prep Date: 7/8/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.47	4.8	97.09	9.845	92.3	75-125	99.61	0.146	20	
Surr: Selenate (surr)	44.18	0.97	48.54	0	91	80-120	44.04	0.33	20	

DUP Sample ID: 1007008-01BDUP Units: mg/Kg Analysis Date: 7/10/2010 09:01 PM
Client ID: WSB-8 10' Run ID: ICS3K2_100709D SeqNo: 2024814 Prep Date: 7/8/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.51	10	0	0	0	0-0	5.317	65.7	20	R
Surr: Selenate (surr)	ND	2.0	0	0	0	85-115	0	0	20	

DUP Sample ID: 1007008-19BDUP Units: mg/Kg Analysis Date: 7/12/2010 09:31 AM
Client ID: WSB-9 80' Run ID: ICS3K2_100709D SeqNo: 2025952 Prep Date: 7/8/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.99	4.8	0	0	0	0-0	9.845	1.47	20	
Surr: Selenate (surr)	45.47	0.97	48.54	0	93.7	85-115	44.27	2.66	20	

The following samples were analyzed in this batch:

1007008-01B	1007008-02B	1007008-03B
1007008-04B	1007008-05B	1007008-06B
1007008-07B	1007008-08B	1007008-09B
1007008-10B	1007008-11B	1007008-12B
1007008-13B	1007008-14B	1007008-15B
1007008-16B	1007008-17B	1007008-18B
1007008-19B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 19-Jul-10

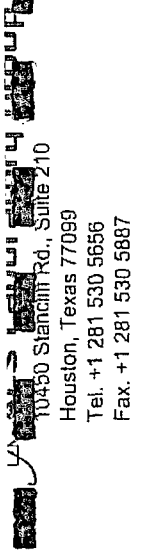
Client: Navajo Refining Company
Project: Lea Refining Soil Borings
WorkOrder: 1007008

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter



Page 1 of 5



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Page 1 of 5

Customer Information				Project Information				ALS Project Manager:				ALS Work Order #:					
Purchase Order	Work Order	Company Name	Send Report To	Project Name	Project Number	Bill To Company	Invoice Attn	Lea Refining - Borehole	Parameter/Method Request for Analysis								
		Navajo Refining Company				Navajo Refining Company											
		Darrell Moore															
		P.O. Box 159															
		Artesia, NM 88211															
		(505) 746-3311															
		(505) 746-5424															
		e-Mail Address:															
		dgboyer@SESH-NM.com															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WSR-8 10'	6/26/10	0820	Seal	8	2	X	X	X	X	X						
2	20'		0825														
3	30'		0835														
4	40'		0840														
5	50'		0850														
6	60'		0905														
7	70'		0915														
8	80'		0925														
9	90'		0935														
10	WSR-8 102'	6/26/10	0945	Seal	8	2	X	X	X	X	X						
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:					
Date: 6/29/10				Time: 0630				Fed Ex				15 Mins					
Relinquished by: P. Boyer				Received by:				Notes: 10 Day TAT				QC Package: (Check One Box Below)					
Relinquished by: P. Boyer				Received by: P. Boyer				Cooler ID: 63010				Level II Std OC ☐ Level III Std OC Raw Data ☐ Level IV SWM/CLP ☐ Other / EOD ☐					
Logged by (Laboratory):				Checked by (Laboratory):				Cooler Temp:				TRRP Checklist ☐					
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																	

Note:

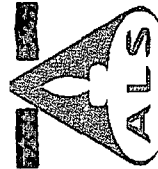
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Page 2 of 5

Customer Information				Project Information				ALS Project Manager:				ALS Work Order #:				
Parameter/Method Request for Analysis																
Purchase Order	Project Name			Lea Refining - Soil Analysis			BTEX (8021)									
Work Order	Project Number			NAV-10-002			GRO (8015M)									
Company Name	Bill To Company			Navajo Refining Company			DRO (8015M)									
Send Report To	Invoice Attn			Darrell Moore			ORO (8015M)									
Address	P.O. Box 159			P.O. Box 159			Anions (300) Cl									
City/State/Zip	Artesia, NM 88211			Artesia, NM 88211												
Phone	(505) 748-3311			(505) 748-3311												
Fax	(505) 746-5421			(505) 746-5421												
e-Mail Address	dmoore@SESH-NM.com															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	J	Hold
1	WSB-8 110'	6/26/10	0955	Soil	8	2	X	X	X	X						
2	WSB-9 10'		1305													
3	20'		1315													
4	30'		1320													
5	40'		1325													
6	50'		1335													
7	60'		1340													
8	70'		1345													
9	80'		1355													
10	WSB-9 90'	6/26/10	1400	Soil	8	2	X	X	X	X						
Sampler(s) Please Print & Sign.				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:				
Relinquished by: D. Boyer				FedEx				15 Wk Days				124 Hour				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler ID				
Relinquished by: D. Boyer				Time: 6/29/10				Received by: R. F. G. 6/30/10				Cooler Temp				
Relinquished by: D. Boyer				Time: 6/29/10				Received								

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.



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Chain of Custody Form

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Page 5 of 5

Customer Information				Project Information				ALS Project Manager: [Signature]												ALS Work Order #: [Signature]											
Project Name				Lea Refining - S-1 Borings				Parameter/Method Request for Analysis																							
Project Number				NAK-10-002																											
Bill To Company				Navajo Refining Company																											
Invoice Attn				Darrell Moore																											
Address				P.O. Box 159																											
City/State/Zip				Artesia, NM 80211																											
Phone				(505) 746-3311																											
Fax				(505) 746-5421																											
e-Mail Address				digboyer@SESI-NM.com																											
No.	Sample Description	Date	Time	Matrix	Pres	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold														
1	WSR-10 80'	6/28/10	1440	Soil	B	2	X	X	X	X	X																				
2	90'	7	1750			7	1	1	1	1	1																				
3	100'	7	1500																												
4	WSR-10 110'	6/28/10	1505	Soil	B	2	X	X	X	X	X																				
5	TRIP Blank 061410-36	-	-	H ₂ O	1, B	2	X																								
6	TRIP Blank 061410-37	-	-	H ₂ O	1, B	2	X																								
7																															
8																															
9																															
10																															

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
S. G. Boyer	AKB002	FedEx		1-5 Wk Days	1-2 Wk Days	1-2 Wk Days	
Relinquished by: [Signature]		Date: 6/28/10	Time: 0630	Received by:			
Relinquished by: [Signature]		Date: 6/28/10	Time: 0630	Received by: [Signature]			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):			
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ S ₂ O ₃ , 6-NaHSO ₃ , 7-Other: 8-4°C, 9-5035							

QC Package: (Check One Box Below)		Cooler Temp.		Level III Std OC		Level IV SWR/CLP		Level V SWR/CLP		Other / EDD	
☒ Level III Std OC	☐ Level III SWR/CLP	☐ Level IV SWR/CLP	☐ Level V SWR/CLP	☐ Other / EDD							

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in this portion can be removed for recipient's records.
 te 6/29/10 FedEx Tracking Number 873133852917
 nder's D. Boyer Phone 575 807-767
 me SEI
 Company
 Address 703 E Clinton 2475
 Hobbs State NM ZIP 88240
 our Internal Billing Reference 1100-10-002

1050000

ALS Laboratory Group
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 6/29/10
 Name: D. Boyer
 Company: SEI

CUSTODY SEAL
 ID Time: 0630
 Name: D. Boyer
 Company: SEI

Seal Broken By: [Signature]
 Date: 6/30/10

ALS Laboratory Group
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 6/29/10
 Name: D. Boyer
 Company: SEI

CUSTODY SEAL
 ID Time: 0630
 Name: D. Boyer
 Company: SEI

Seal Broken By: [Signature]
 Date: 6/30/10

in this portion can be removed for recipient's records.
 te 6/29/10 FedEx Tracking Number 873133852928
 nder's D. Boyer Phone 575 330 7067
 me SEI
 Company
 Address 703 E Clinton 407
 Hobbs State NM ZIP 88240
 our Internal Billing Reference 1100-10-002

ALS Laboratory Group
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 6/29/10 Time: 0630
 Name: D. Boyer
 Company: SEI

SEAL
 ID Time: 0630
 Name: D. Boyer
 Company: SEI

Seal Broken By: [Signature]
 Date: 6/30/10

ALS Laboratory Group
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 Houston, Texas 77099
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 Fax. +1 281 530 5887

Date: 6/29/10 Time: 0630
 Name: D. Boyer
 Company: SEI

SEAL
 ID Time: 0630
 Name: D. Boyer
 Company: SEI

Seal Broken By: [Signature]
 Date: 6/30/10